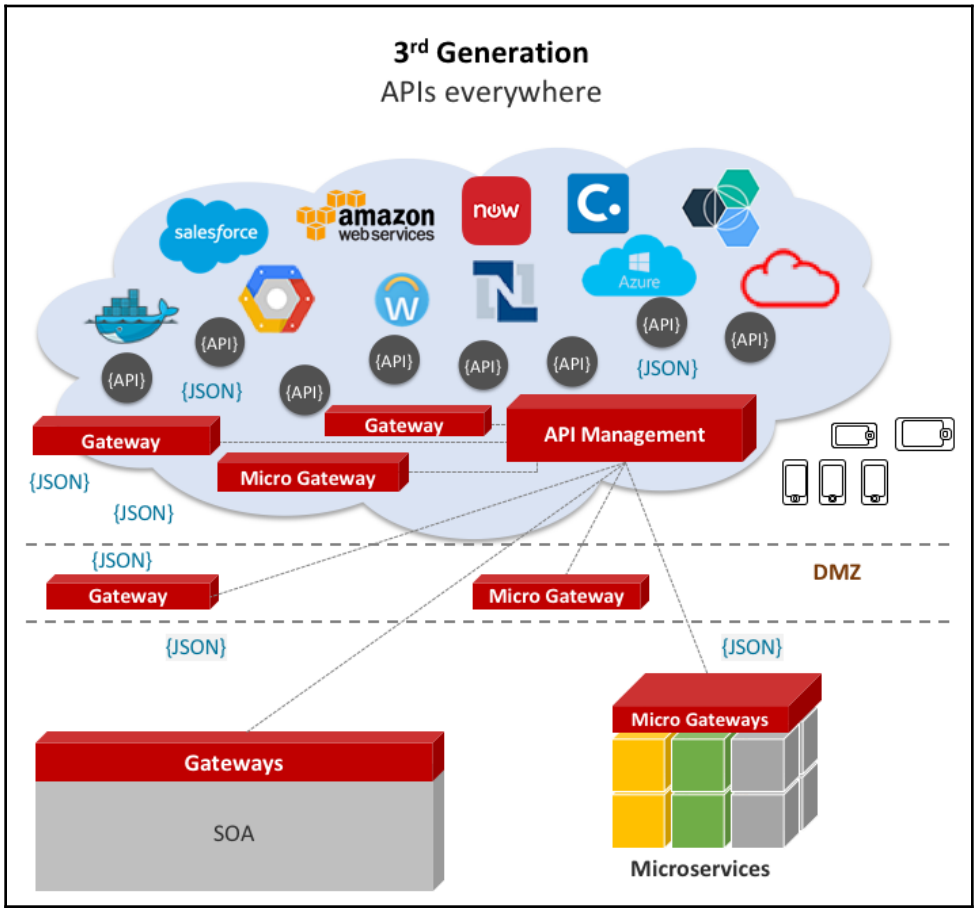
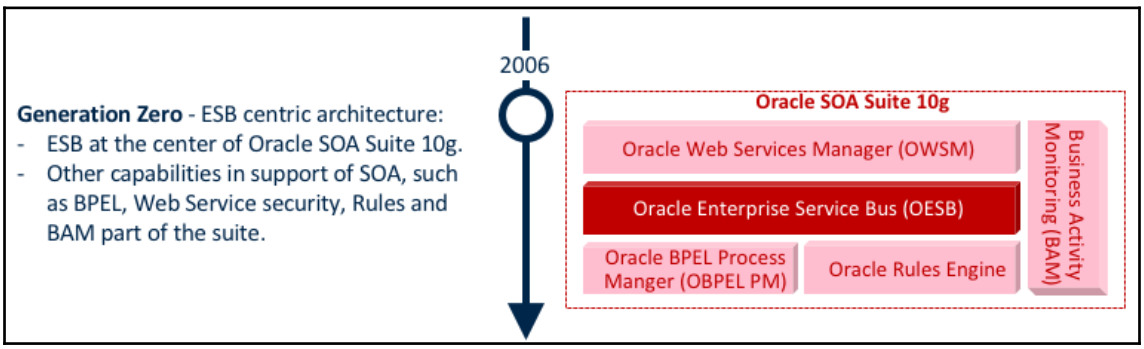
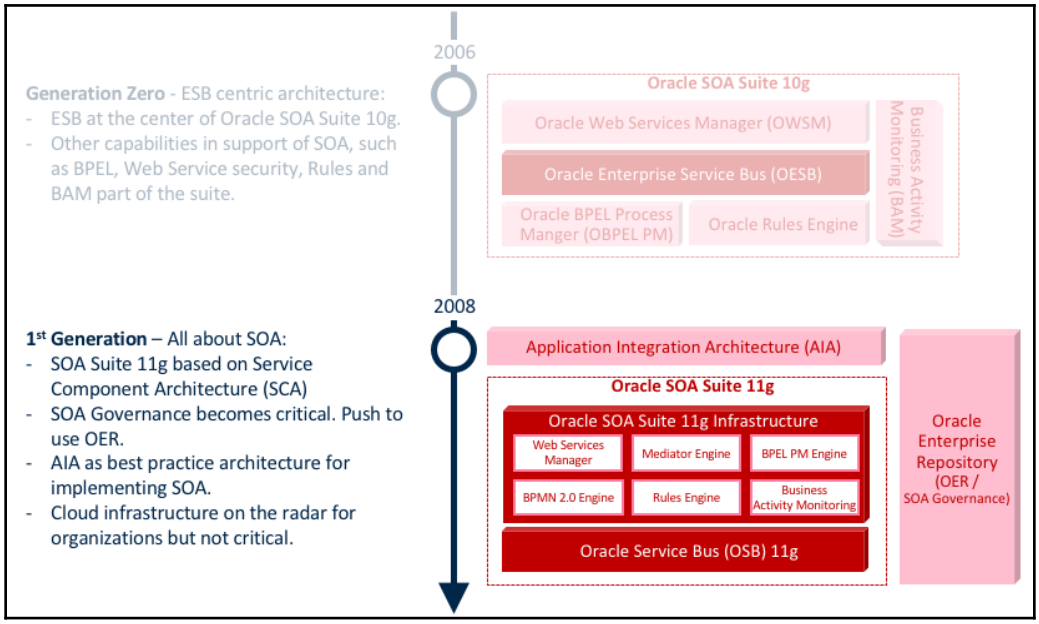
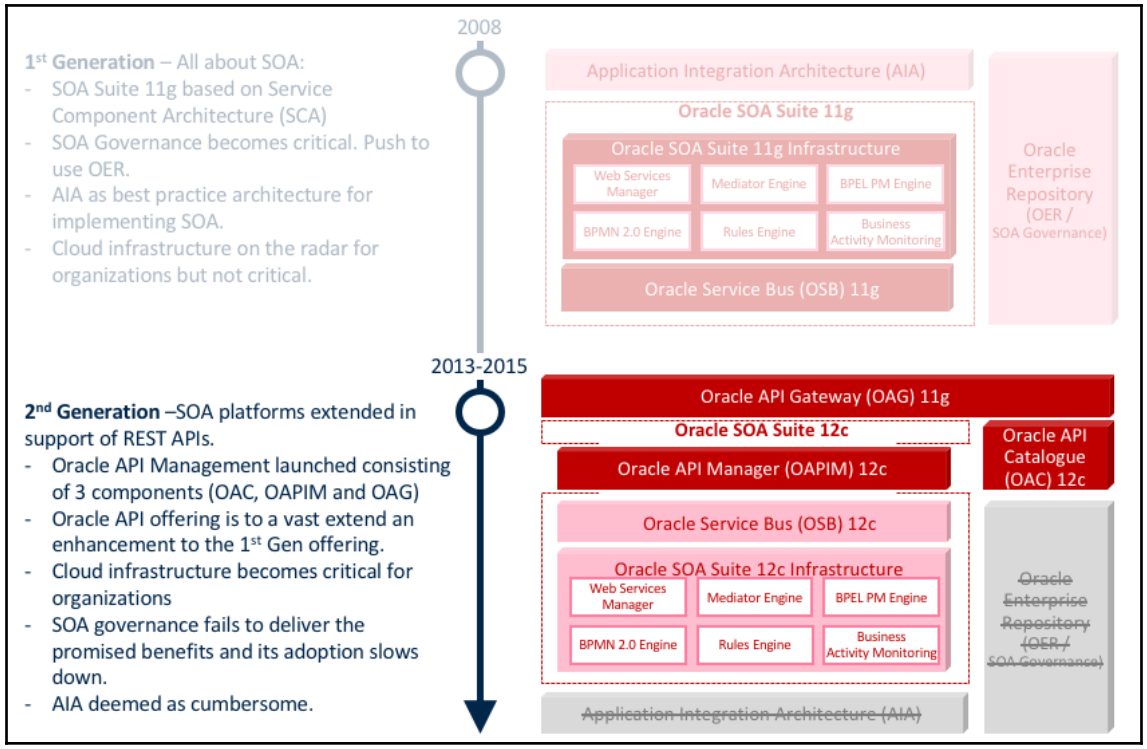
Chapter 1: Platform Overview






2006
Generation Zero - ESB centric architecture:
- ESB at the center of Oracle SOA Suite 10g.
- Other capabilities in support of SOA, such as BPEL, Web Service security, Rules and BAM part of the suite.
Oracle SOA Suite 10g
Oracle Web Services Manager (OWSM)
Oracle Enterprise Service Bus (OESB)
Oracle BPEL Process Manger (OBPEL PM)
Oracle Rules Engine
Business Activity Monitoring (BAM)
2008
1st Generation – All about SOA:
- SOA Suite 11g based on Service Component Architecture (SCA)
- SOA Governance becomes critical. Push to use OER.
- AIA as best practice architecture for implementing SOA.
- Cloud infrastructure on the radar for organizations but not critical.
Application Integration Architecture (AIA)
Oracle SOA Suite 11g
Oracle SOA Suite 11g Infrastructure
Web Services Manager
Mediator Engine
BPEL PM Engine
BPMN 2.0 Engine
Rules Engine
Business Activity Monitoring
Oracle Service Bus (OSB) 11g
Oracle Enterprise Repository (OER / SOA Governance)


2008
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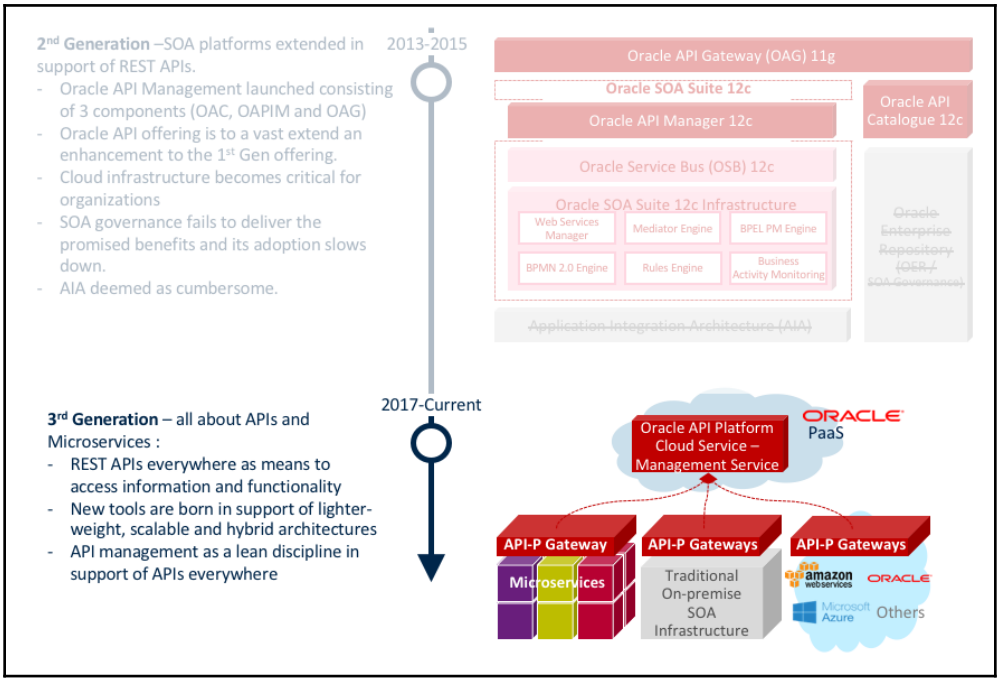
Business Activity Monitoring
Oracle Service Bus (OSB) 11g
Oracle Enterprise Repository (OER / SOA Governance)
2013-2015
2nd Generation –SOA platforms extended in support of REST APIs.
- Oracle API Management launched consisting of 3 components (OAC, OAPIM and OAG)
- Oracle API offering is to a vast extend an enhancement to the 1st Gen offering.
- Cloud infrastructure becomes critical for organizations
- SOA governance fails to deliver the promised benefits and its adoption slows down.
- AIA deemed as cumbersome.
Oracle API Gateway (OAG) 11g
Oracle SOA Suite 12c
Oracle API Manager (OAPIM) 12c
Oracle API Catalogue (OAC) 12c
Oracle Service Bus (OSB) 12c
Oracle SOA Suite 12c Infrastructure
Web Services Manager
Mediator Engine
BPEL PM Engine
BPMN 2.0 Engine
Rules Engine
Business Activity Monitoring
Application Integration Architecture (AIA)
Oracle Enterprise Repository (OER / SOA Governance)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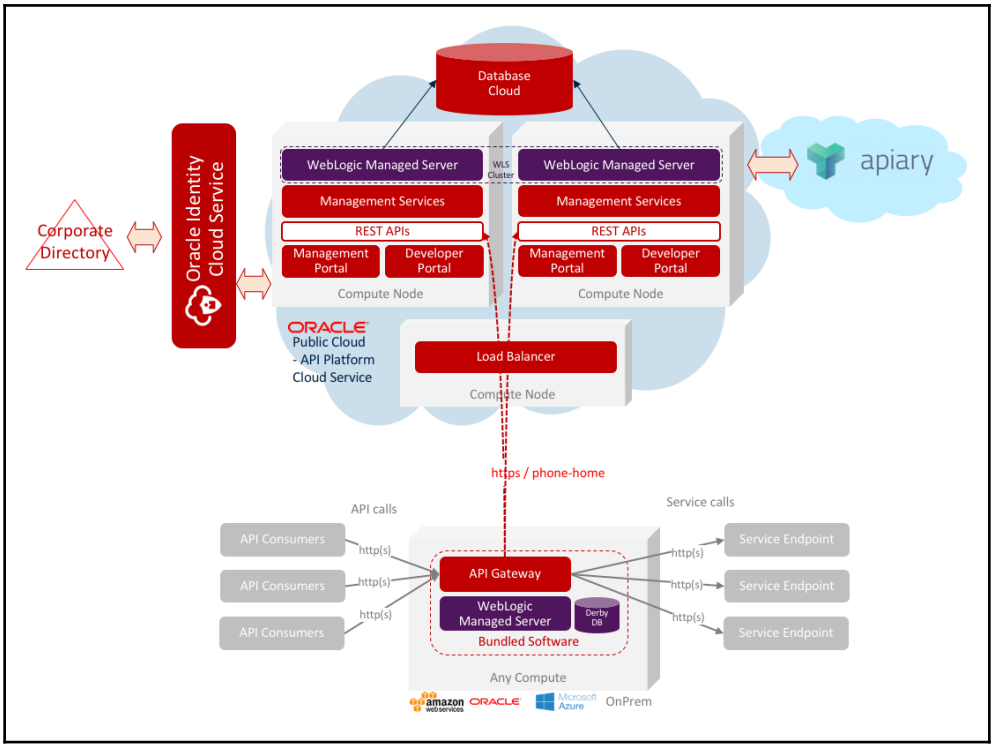
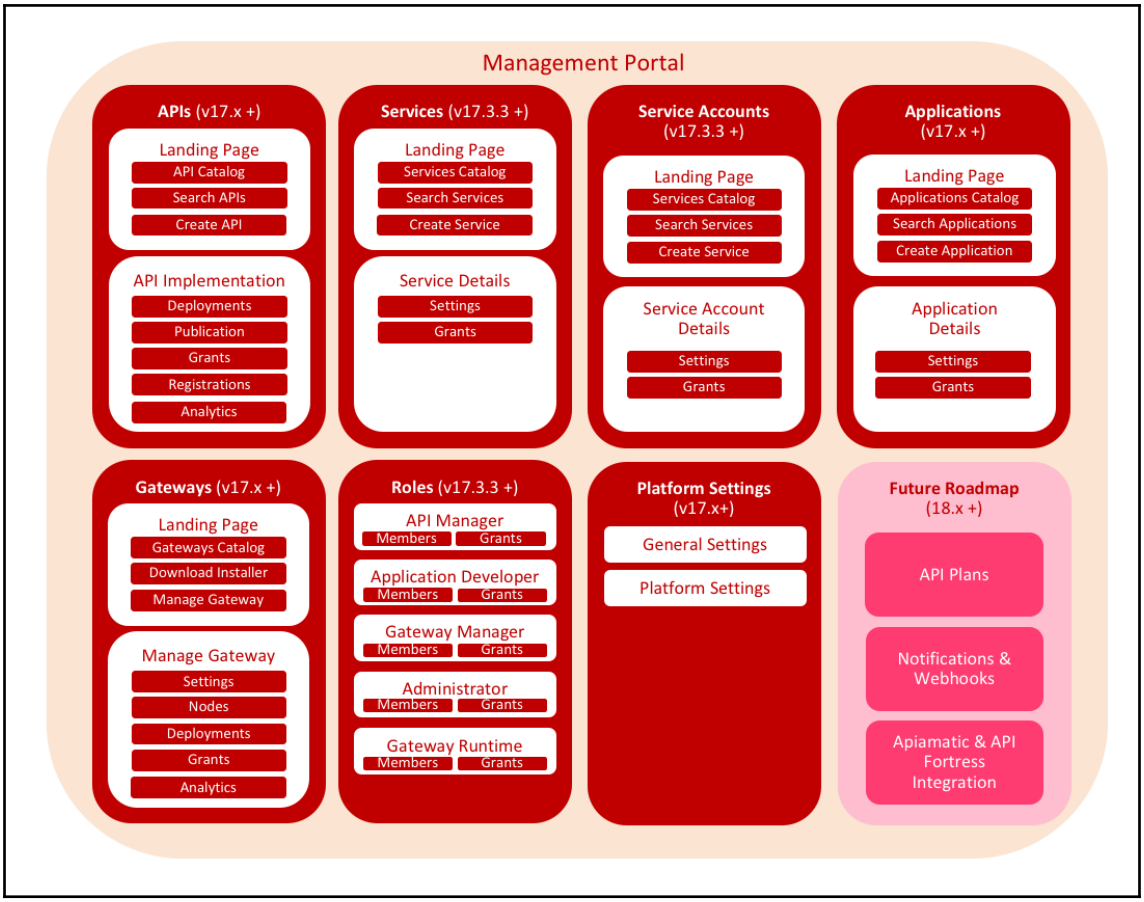
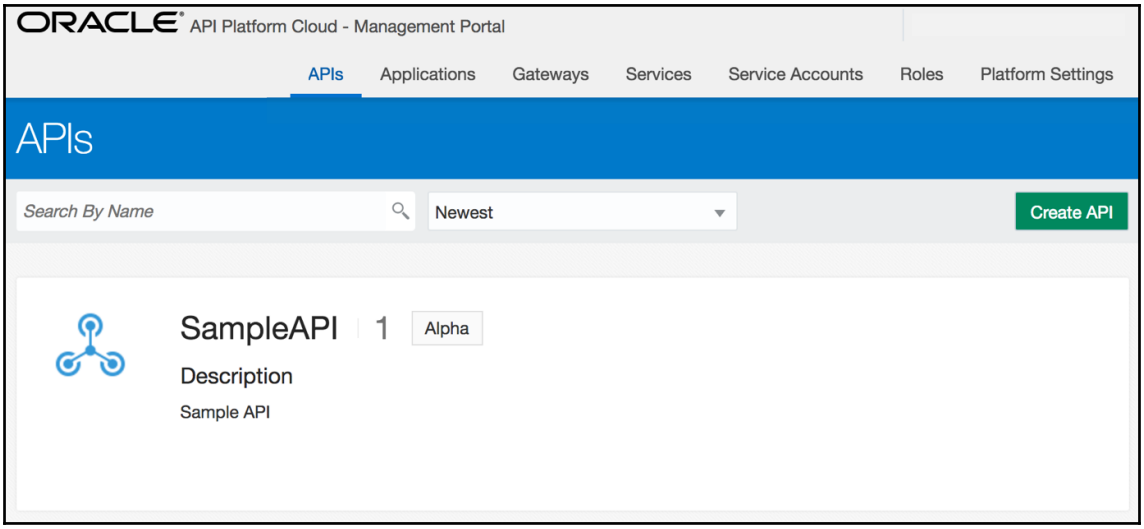
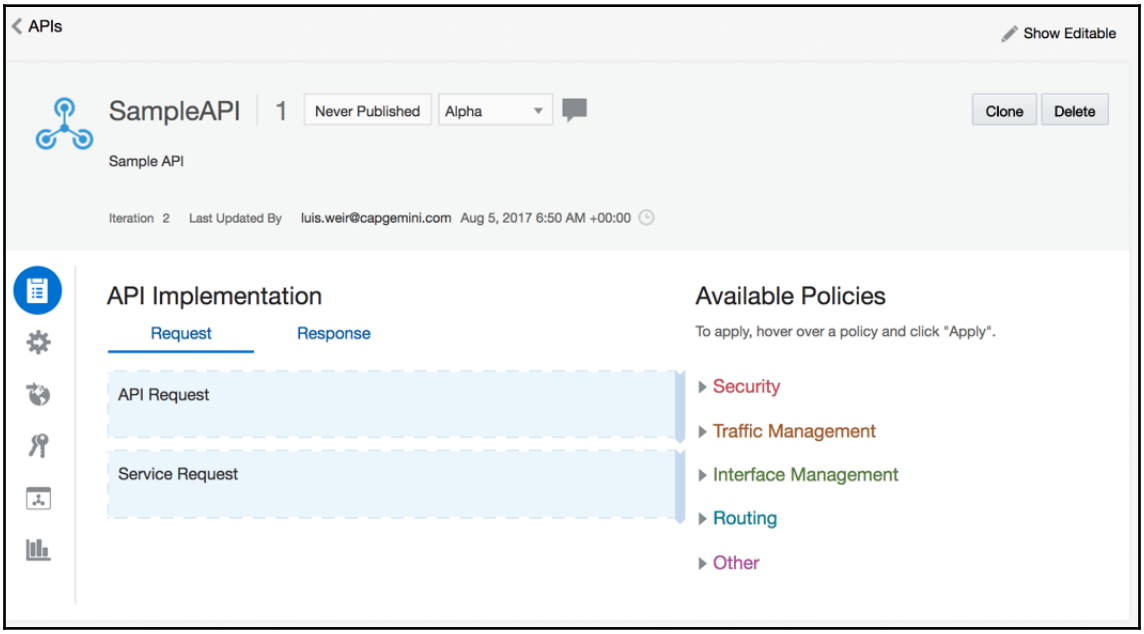
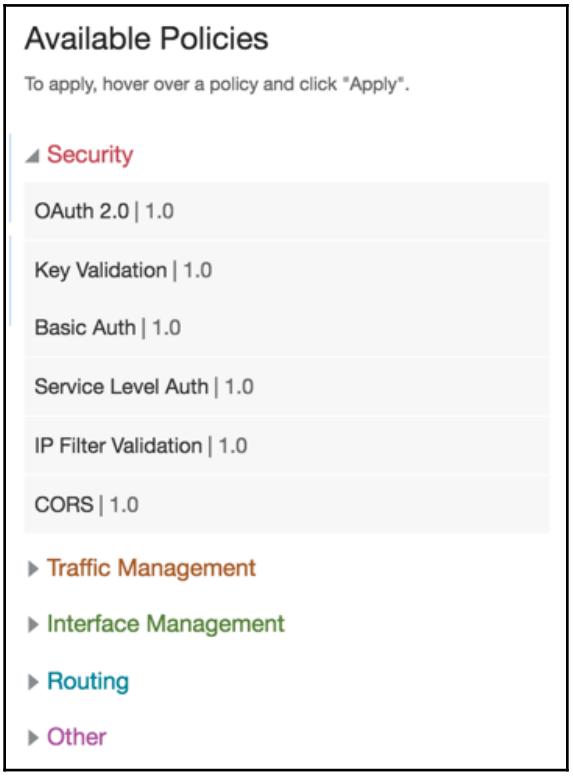
2013-2015
Oracle API Gateway (OAG) 11g
Oracle SOA Suite 12c
Oracle API Manager 12c
Oracle API Catalogue 12c
Oracle Service Bus (OSB) 12c
Oracle SOA Suite 12c Infrastructure
Web Services Manager
Mediator Engine
BPEL PM Engine
BPMN 2.0 Engine
Rules Engine
Business Activity Monitoring
Oracle Enterprise Repository (OER / SOA Governance)
Application Integration Architecture (AIA)
2017-Current
3rd Generation – all about APIs and Microservices :
- REST APIs everywhere as means to access information and functionality
- New tools are born in support of lighter-weight, scalable and hybrid architectures
- API management as a lean discipline in support of APIs everywhere
Oracle API Platform Cloud Service – Management Service
ORACLE PaaS
API-P Gateway
Microservices
API-P Gateways
Traditional On-premise SOA Infrastructure
API-P Gateways
amazon web services
ORACLE
Microsoft Azure
Others

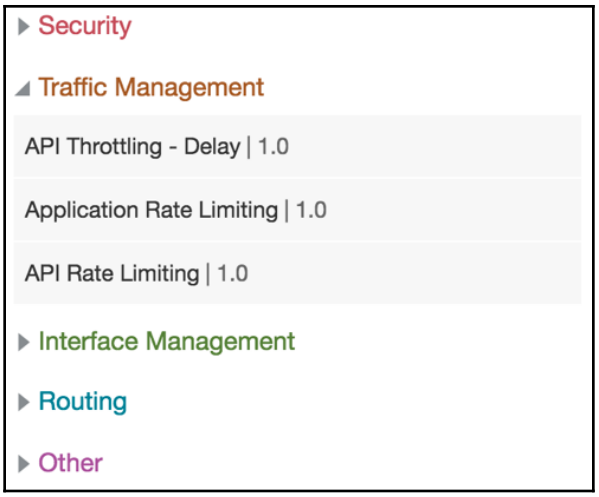

Database Cloud
Oracle Identity Cloud Service
Corporate Directory
WebLogic Managed Server
WLS Cluster
WebLogic Managed Server
Management Services
Management Services
REST APIs
REST APIs
Management Portal
Developer Portal
Management Portal
Developer Portal
Compute Node
Compute Node
apiary
ORACLE
Public Cloud
- API Platform
Cloud Service
Load Balancer
Compute Node
https / phone-home
API calls
Service calls
API Consumers
API Consumers
API Consumers
http(s)
http(s)
http(s)
API Gateway
WebLogic Managed Server
Derby DB
Bundled Software
http(s)
http(s)
http(s)
Service Endpoint
Service Endpoint
Service Endpoint
Any Compute
amazon web services
ORACLE
Microsoft Azure
OnPrem

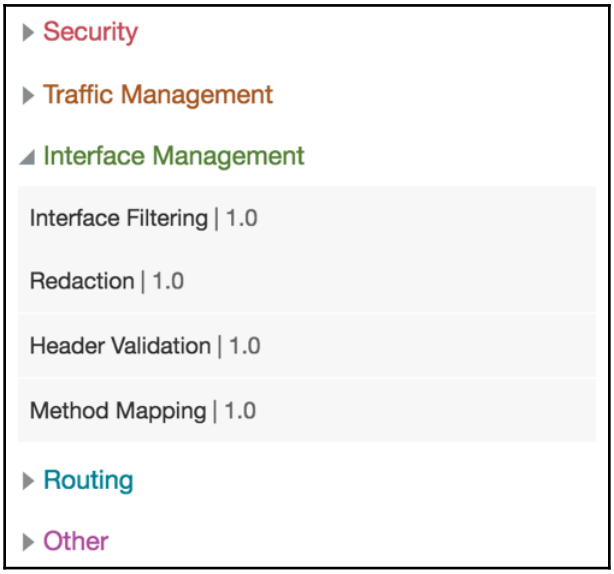

Management Portal
APIs (v17.x +)
Landing Page
API Catalog
Search APIs
Create API
API Implementation
Deployments
Publication
Grants
Registrations
Analytics
Services (v17.3.3 +)
Landing Page
Services Catalog
Search Services
Create Service
Service Details
Settings
Grants
Service Accounts (v17.3.3 +)
Landing Page
Services Catalog
Search Services
Create Service
Service Account Details
Settings
Grants
Applications (v17.x +)
Landing Page
Applications Catalog
Search Applications
Create Application
Application Details
Settings
Grants
Gateways (v17.x +)
Landing Page
Gateways Catalog
Download Installer
Manage Gateway
Manage Gateway
Settings
Nodes
Deployments
Grants
Analytics
Roles (v17.3.3 +)
API Manager
Members
Grants
Application Developer
Members
Grants
Gateway Manager
Members
Grants
Administrator
Members
Grants
Gateway Runtime
Members
Grants
Platform Settings (v17.x+)
General Settings
Platform Settings
Future Roadmap (18.x +)
API Plans
Notifications & Webhooks
Apiamatic & API Fortress Integration

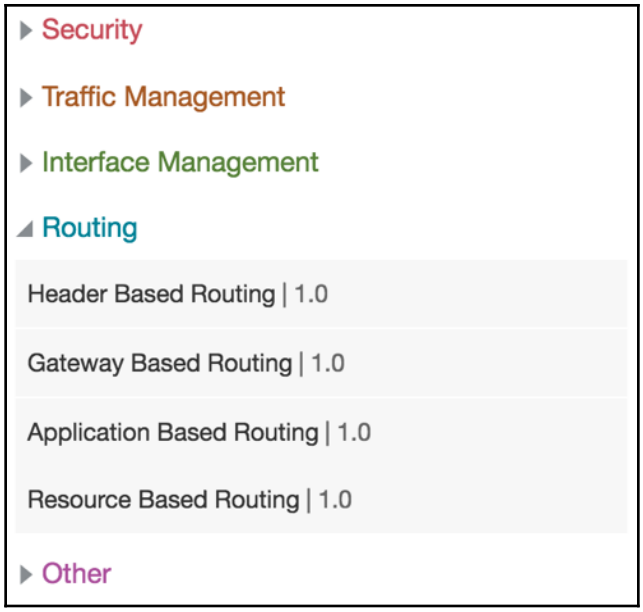

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
APIs
Search By Name
Newest
Create API
SampleAPI
1
Alpha
Description
Sample API

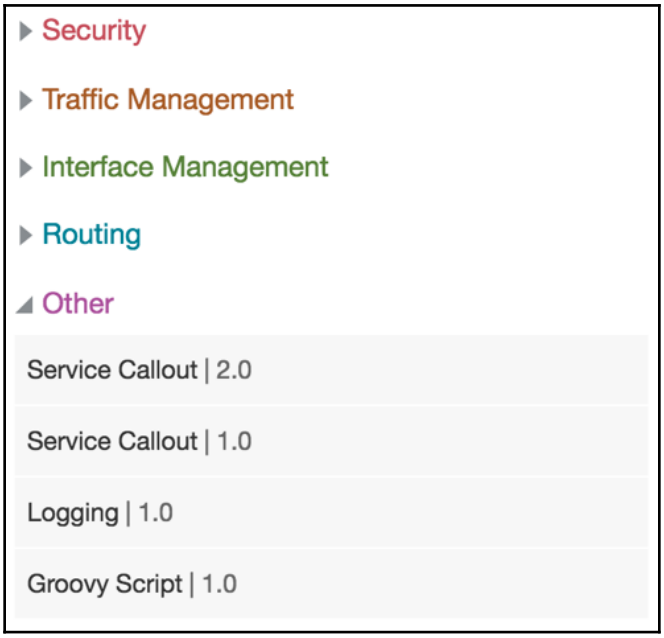

APIs
Show Editable
SampleAPI
1
Never Published
Alpha
Clone
Delete
Sample API
Iteration 2
Last Updated By
luis.weir@capgemini.com
Aug 5, 2017 6:50 AM +00:00
API Implementation
Request
Response
API Request
Service Request
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other

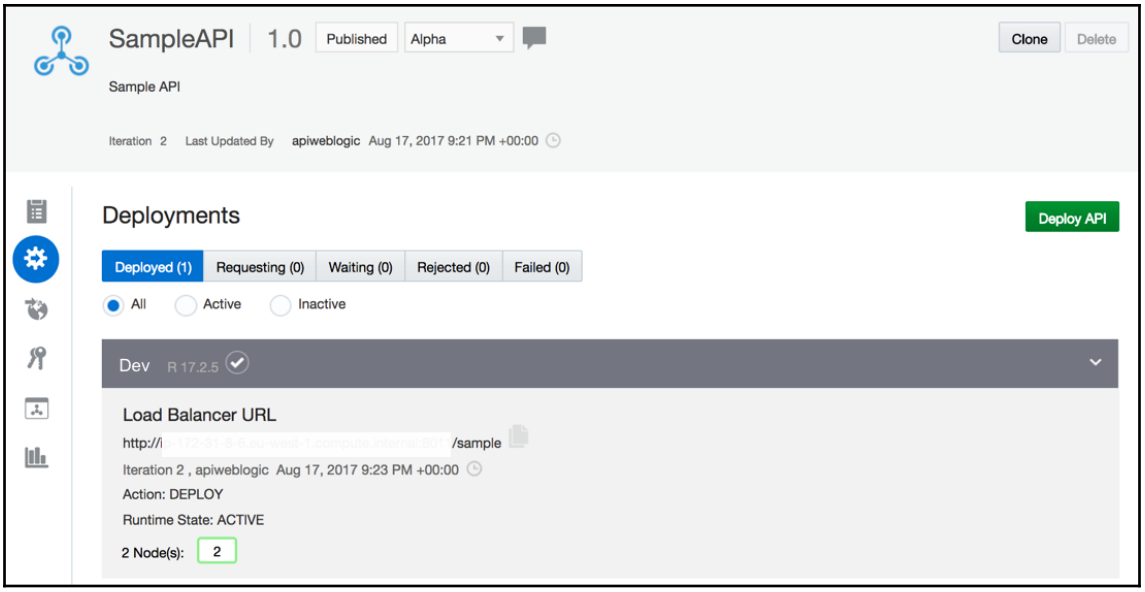

Available Policies
To apply, hover over a policy and click "Apply".
Security
OAuth 2.0 | 1.0
Key Validation | 1.0
Basic Auth | 1.0
Service Level Auth | 1.0
IP Filter Validation | 1.0
CORS | 1.0
Traffic Management
Interface Management
Routing
Other

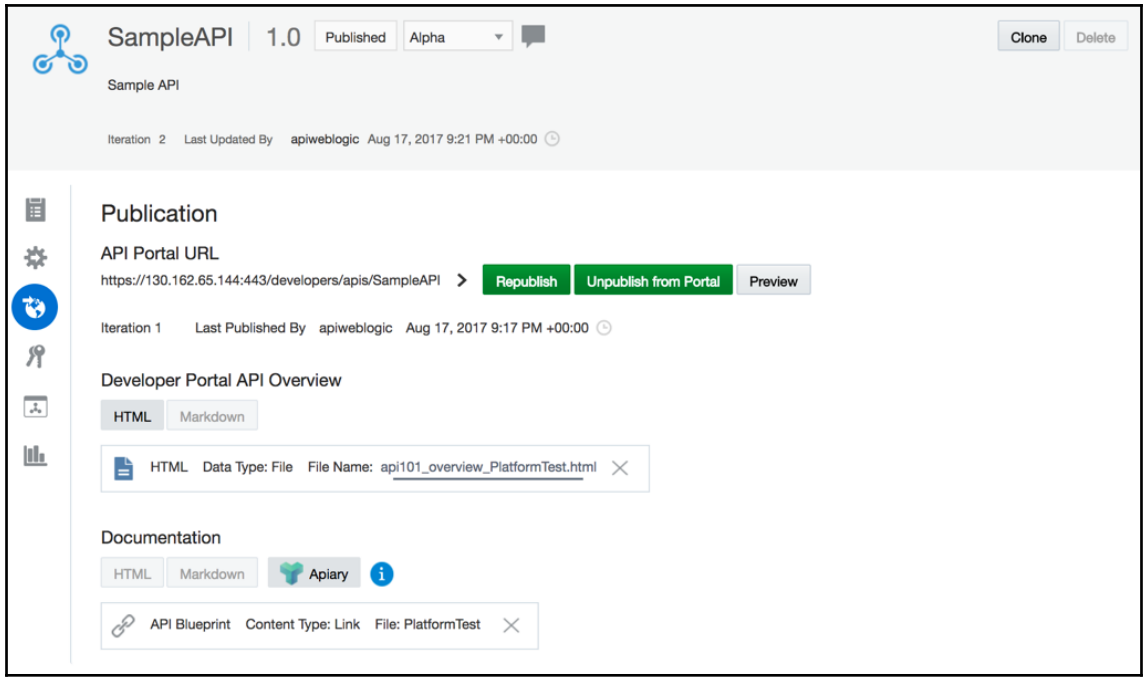

Security
Traffic Management
API Throttling - Delay | 1.0
Application Rate Limiting | 1.0
API Rate Limiting | 1.0
Interface Management
Routing
Other

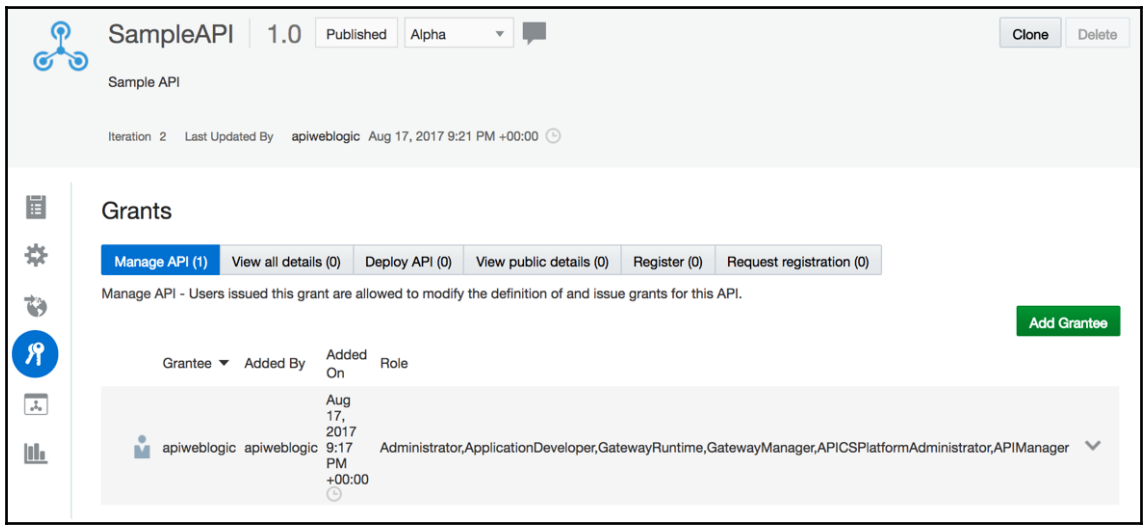

Security
Traffic Management
Interface Management
Interface Filtering | 1.0
Redaction | 1.0
Header Validation | 1.0
Method Mapping | 1.0
Routing
Other

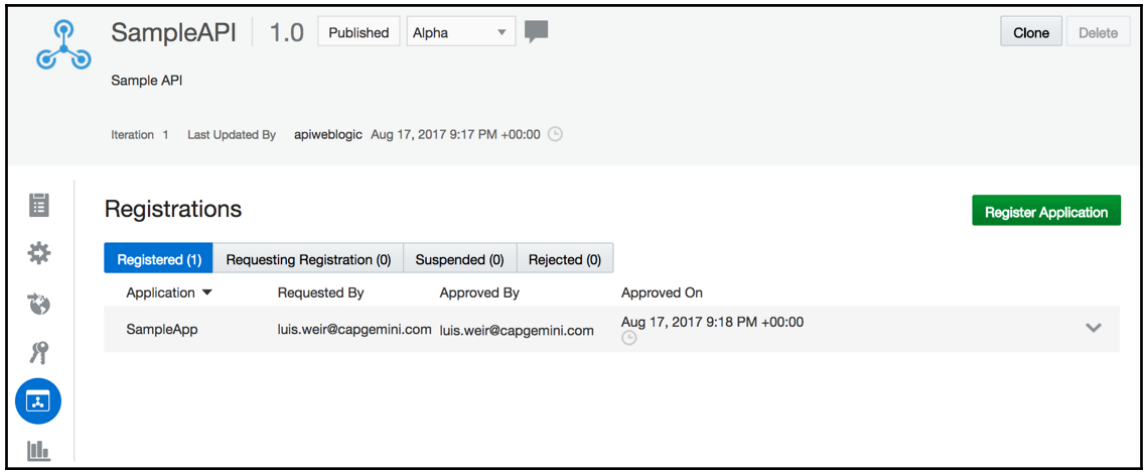

Security
Traffic Management
Interface Management
Routing
Header Based Routing | 1.0
Gateway Based Routing | 1.0
Application Based Routing | 1.0
Resource Based Routing | 1.0
Other

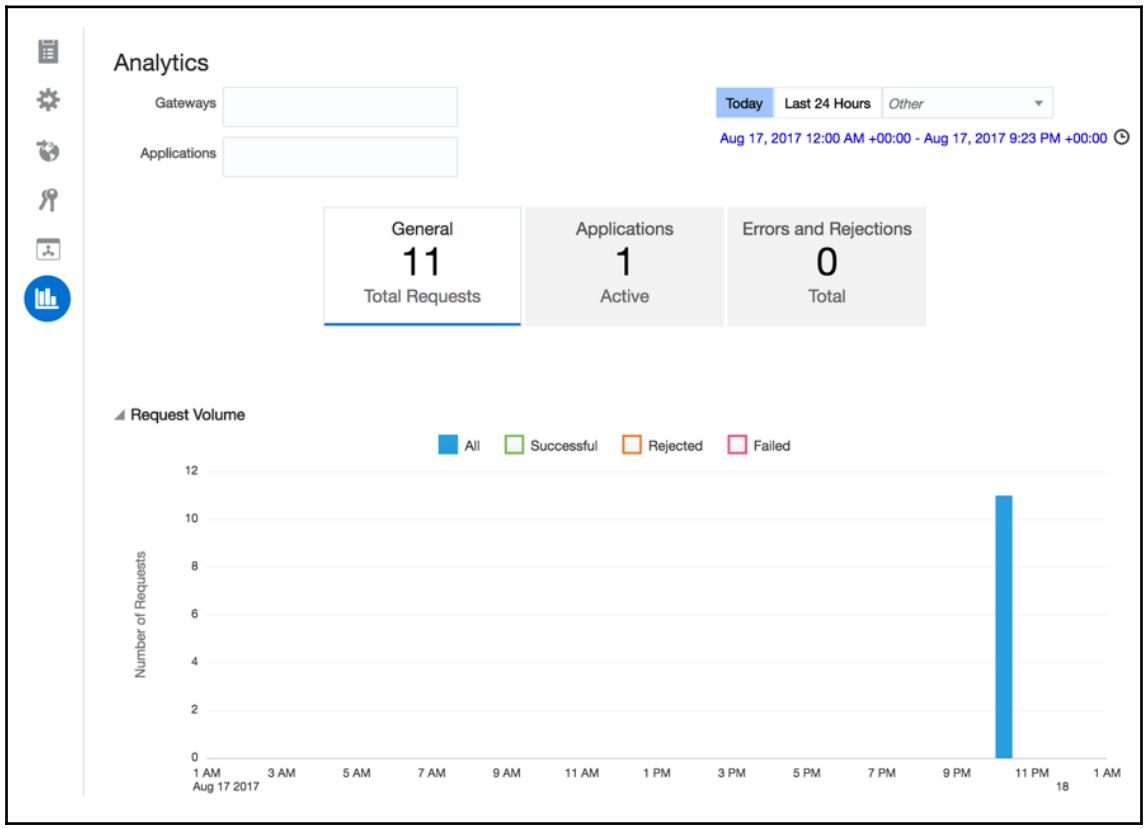

Security
Traffic Management
Interface Management
Routing
Other
Service Callout | 2.0
Service Callout | 1.0
Logging | 1.0
Groovy Script | 1.0

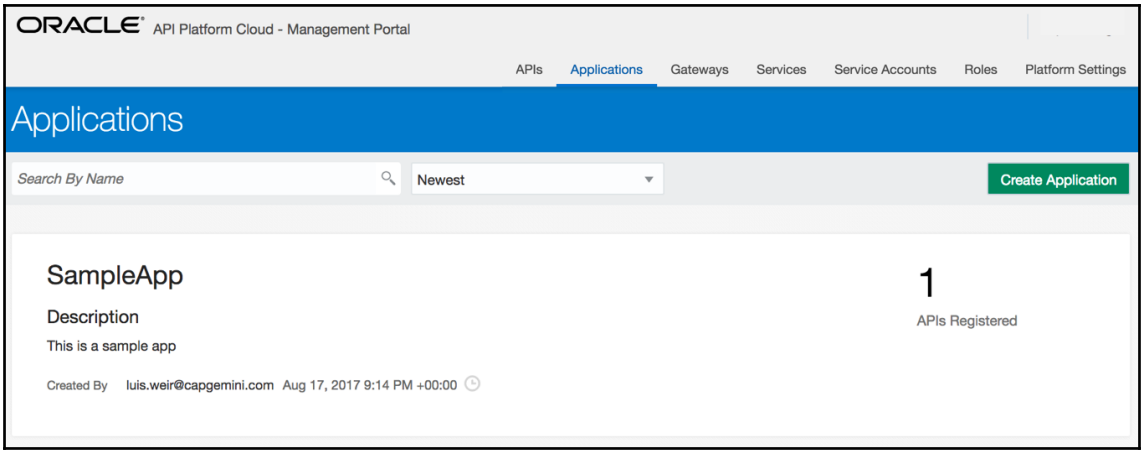

SampleAPI
1.0
Published
Alpha
Clone
Delete
Sample API
Iteration 2
Last Updated By
apiweblogic
Aug 17, 2017 9:21 PM +00:00
Deployments
Deploy API
Deployed (1)
Requesting (0)
Waiting (0)
Rejected (0)
Failed (0)
All
Active
Inactive
Dev
R 17.2.5
Load Balancer URL
/sample
Iteration 2 , apiweblogic Aug 17, 2017 9:23 PM +00:00
Action: DEPLOY
Runtime State: ACTIVE
2 Node(s):
2

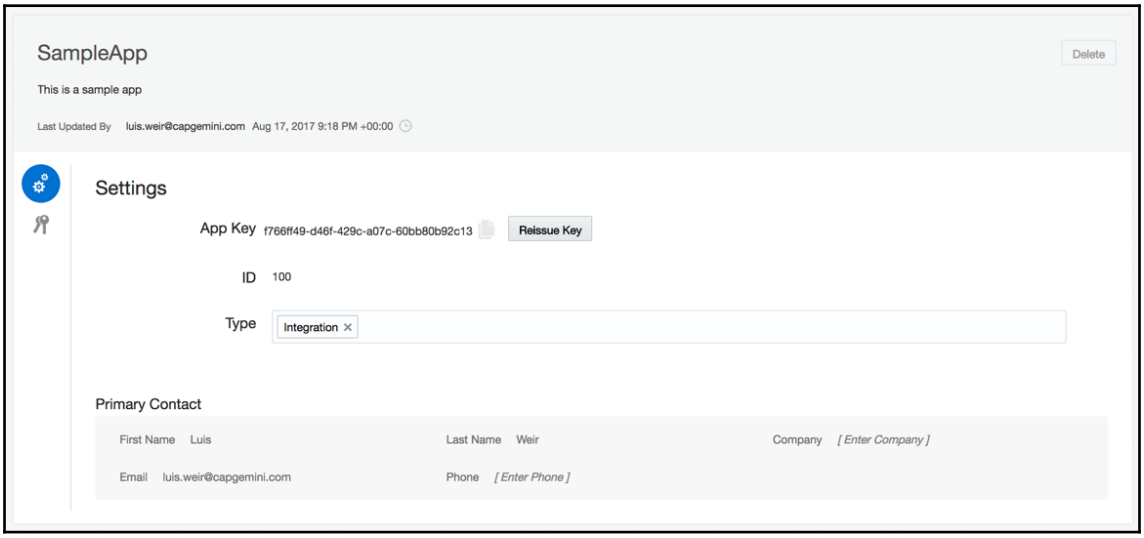

SampleAPI
1.0
Published
Alpha
Clone
Delete
Sample API
Iteration 2
Last Updated By
apiweblogic
Aug 17, 2017 9:21 PM +00:00
Publication
API Portal URL
https://130.162.65.144:443/developers/apis/SampleAPI
Republish
Unpublish from Portal
Preview
Iteration 1
Last Published By
apiweblogic
Aug 17, 2017 9:17 PM +00:00
Developer Portal API Overview
HTML
Markdown
HTML
Data Type: File
File Name:
api101_overview_PlatformTest.html
Documentation
HTML
Markdown
Apiary
API Blueprint
Content Type: Link
File: PlatformTest

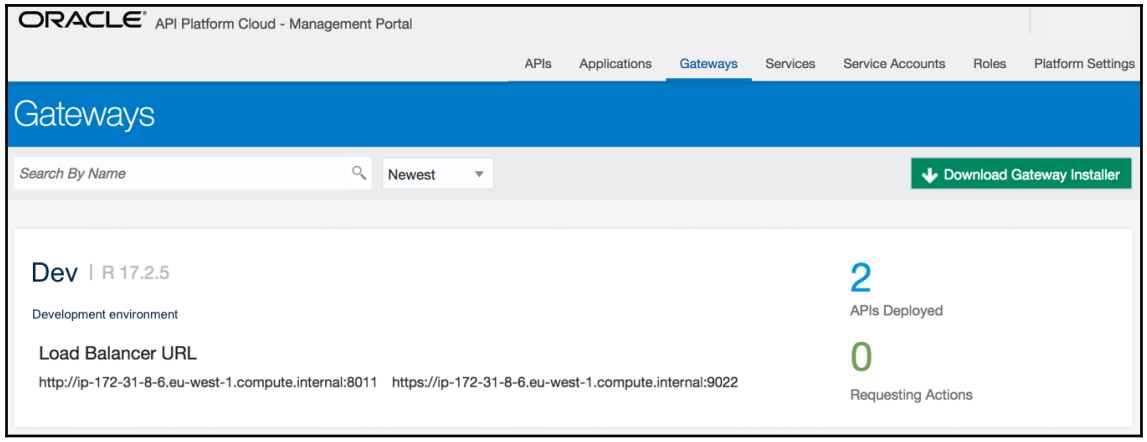

SampleAPI
1.0
Published
Alpha
Clone
Delete
Sample API
Iteration 2
Last Updated By
apiweblogic
Aug 17, 2017 9:21 PM +00:00
Grants
Manage API (1)
View all details (0)
Deploy API (0)
View public details (0)
Register (0)
Request registration (0)
Manage API - Users issued this grant are allowed to modify the definition of and issue grants for this API.
Add Grantee
Grantee
Added By
Added On
Role
apiweblogic
apiweblogic
Aug 17, 2017 9:17 PM +00:00
Administrator,ApplicationDeveloper,GatewayRuntime,GatewayManager,APICSPlatformAdministrator,APIManager

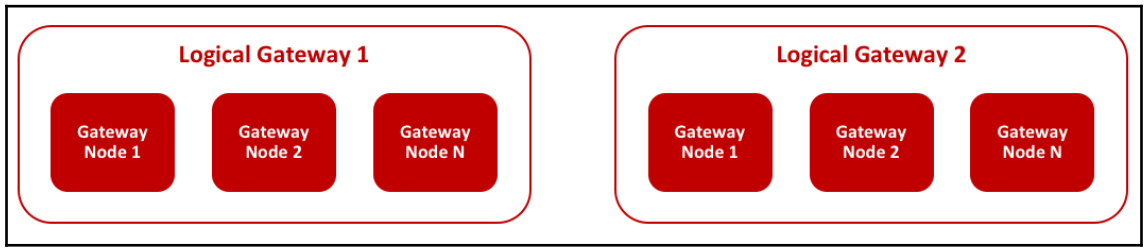

SampleAPI
1.0
Published
Alpha
Clone
Delete
Sample API
Iteration 1
Last Updated By
apiweblogic
Aug 17, 2017 9:17 PM +00:00
Registrations
Register Application
Registered (1)
Requesting Registration (0)
Suspended (0)
Rejected (0)
Application
Requested By
Approved By
Approved On
SampleApp
luis.weir@capgemini.com
luis.weir@capgemini.com
Aug 17, 2017 9:18 PM +00:00

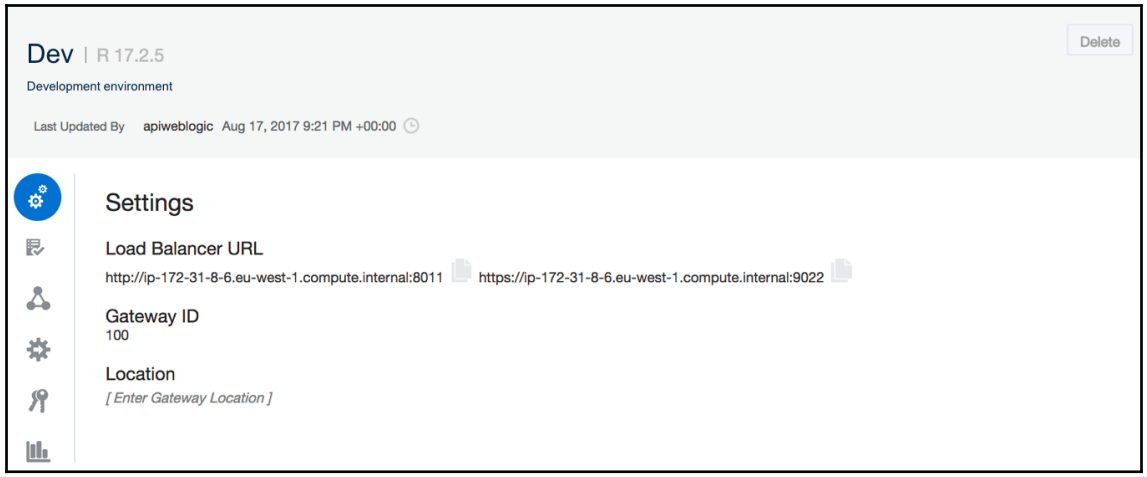

Analytics
Gateways
Applications
Today
Last 24 Hours
Other
Aug 17, 2017 12:00 AM +00:00 - Aug 17, 2017 9:23 PM +00:00
General
11
Total Requests
Applications
1
Active
Errors and Rejections
0
Total
Request Volume
All
Successful
Rejected
Failed
Number of Requests
12
10
8
6
4
2
0
1 AM
Aug 17 2017
3 AM
5 AM
7 AM
9 AM
11 AM
1 PM
3 PM
5 PM
7 PM
9 PM
11 PM
1 AM
18

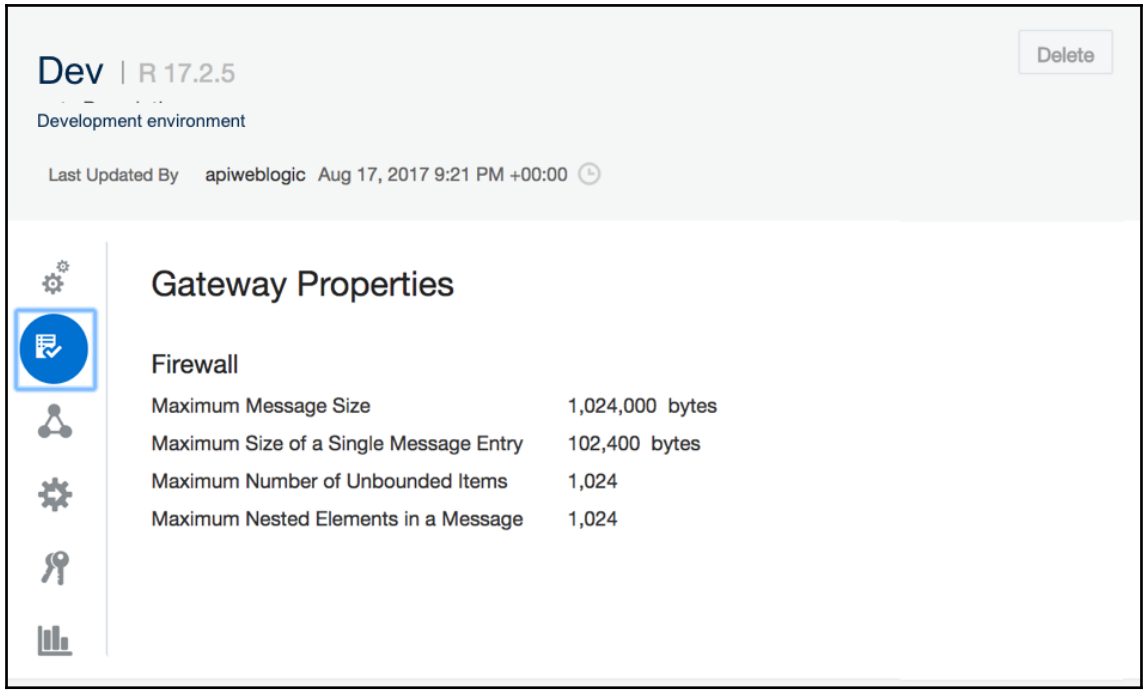

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Applications
Search By Name
Newest
Create Application
SampleApp
Description
This is a sample app
Created By luis.weir@capgemini.com Aug 17, 2017 9:14 PM +00:00
1
APIs Registered

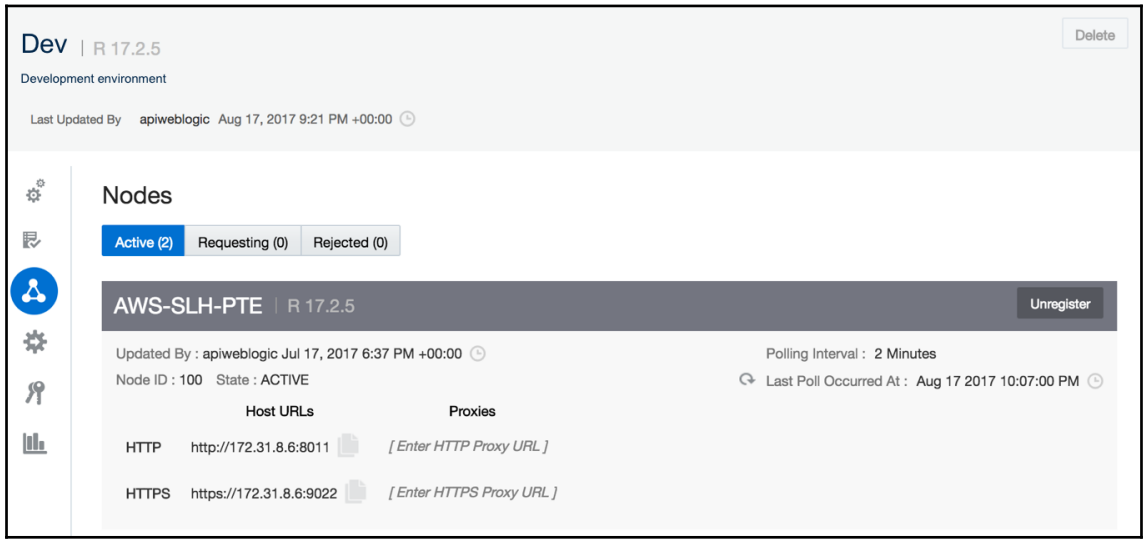

SampleApp
Delete
This is a sample app
Last Updated By luis.weir@capgemini.com Aug 17, 2017 9:18 PM +00:00
Settings
App Key f766ff49-d46f-429c-a07c-60bb80b92c13
Reissue Key
ID 100
Type
Integration
Primary Contact
First Name Luis
Last Name Weir
Company [Enter Company]
Email luis.weir@capgemini.com
Phone [Enter Phone]

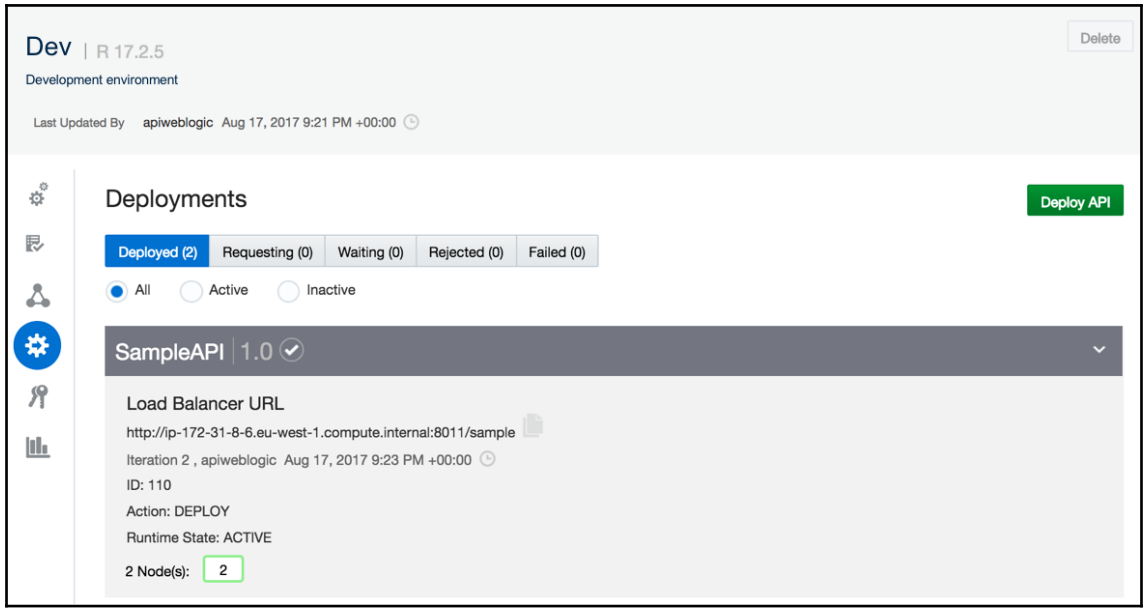

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Gateways
Search By Name
Newest
Download Gateway Installer
Dev | R 17.2.5
Development environment
Load Balancer URL
http://ip-172-31-8-6.eu-west-1.compute.internal:8011 https://ip-172-31-8-6.eu-west-1.compute.internal:9022
2
APIs Deployed
0
Requesting Actions

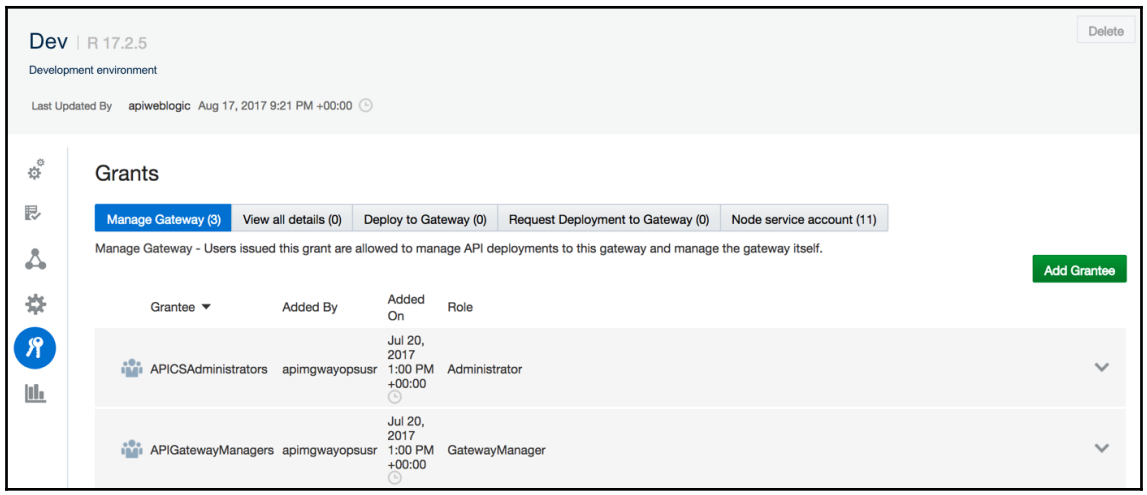

Logical Gateway 1
Gateway Node 1
Gateway Node 2
Gateway Node N
Logical Gateway 2
Gateway Node 1
Gateway Node 2
Gateway Node N

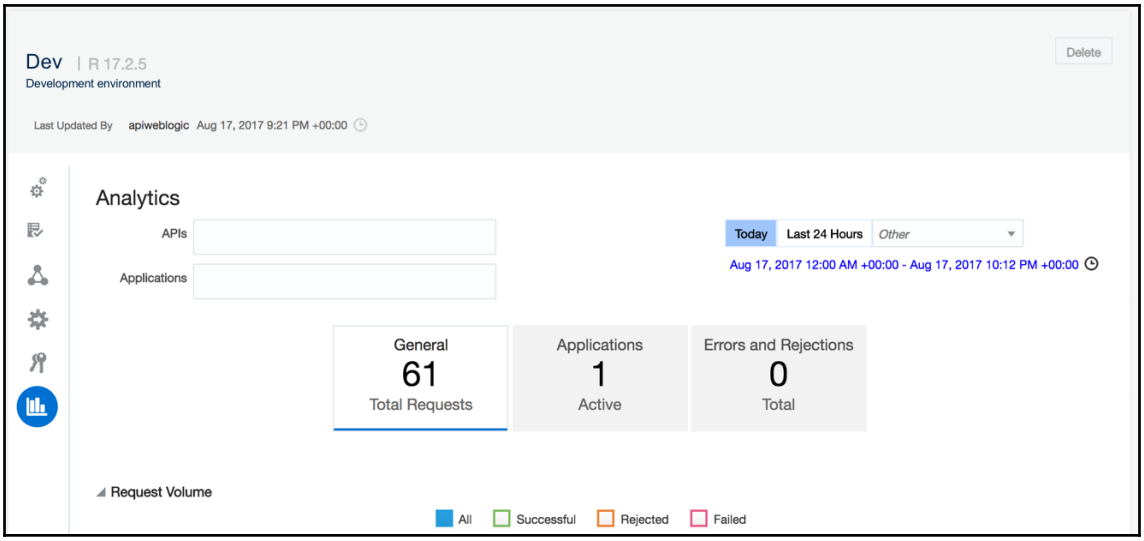

Dev | R 17.2.5
Development environment
Delete
Last Updated By apiweblogic Aug 17, 2017 9:21 PM +00:00
Settings
Load Balancer URL
http://ip-172-31-8-6.eu-west-1.compute.internal:8011 https://ip-172-31-8-6.eu-west-1.compute.internal:9022
Gateway ID
100
Location
[Enter Gateway Location]

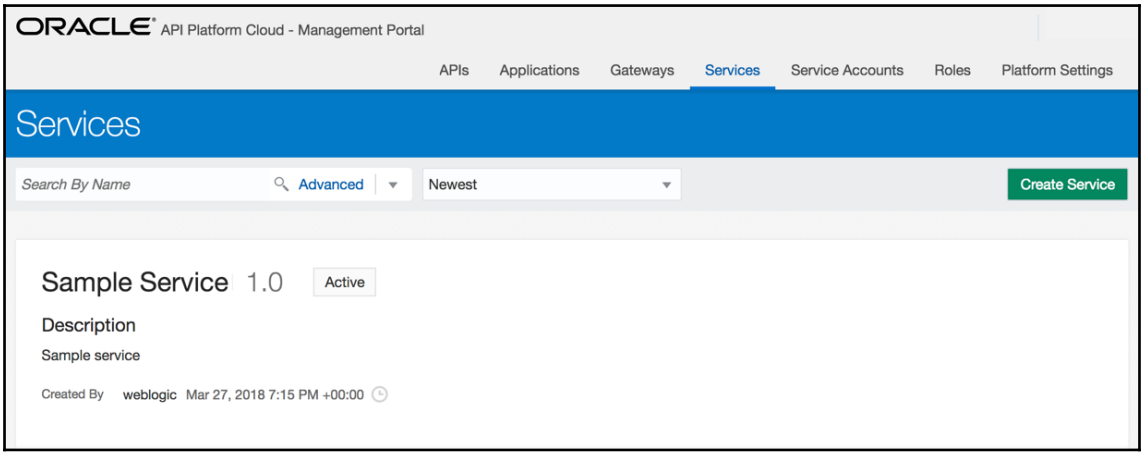

Dev | R 17.2.5
Development environment
Delete
Last Updated By apiweblogic Aug 17, 2017 9:21 PM +00:00
Gateway Properties
Firewall
Maximum Message Size 1,024,000 bytes
Maximum Size of a Single Message Entry 102,400 bytes
Maximum Number of Unbounded Items 1,024
Maximum Nested Elements in a Message 1,024

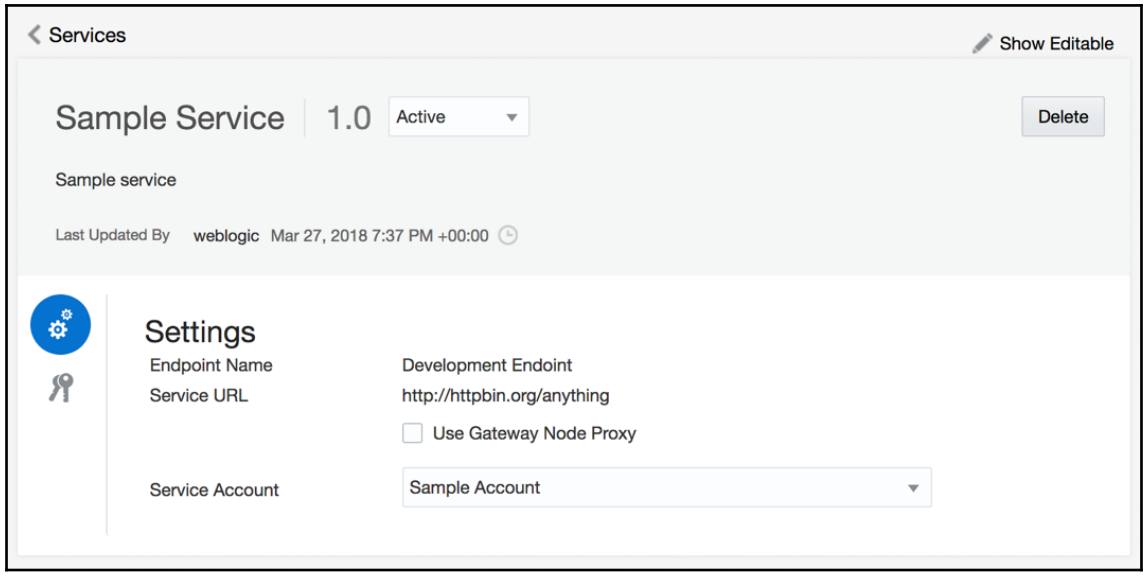

Dev | R 17.2.5
Development environment
Delete
Last Updated By apiweblogic Aug 17, 2017 9:21 PM +00:00
Nodes
Active (2)
Requesting (0)
Rejected (0)
AWS-SLH-PTE | R 17.2.5
Unregister
Updated By : apiweblogic Jul 17, 2017 6:37 PM +00:00
Node ID : 100 State : ACTIVE
Polling Interval : 2 Minutes
Last Poll Occurred At : Aug 17 2017 10:07:00 PM
Host URLs
Proxies
HTTP http://172.31.8.6:8011 [Enter HTTP Proxy URL]
HTTPS https://172.31.8.6:9022 [Enter HTTPS Proxy URL]

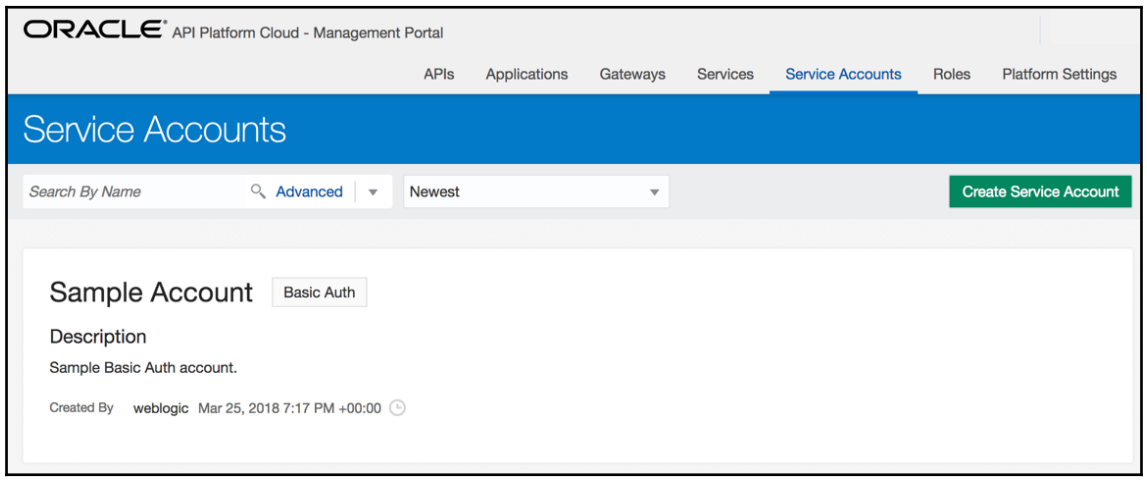

Dev | R 17.2.5
Development environment
Delete
Last Updated By apiweblogic Aug 17, 2017 9:21 PM +00:00
Deployments
Deploy API
Deployed (2)
Requesting (0)
Waiting (0)
Rejected (0)
Failed (0)
All
Active
Inactive
SampleAPI | 1.0
Load Balancer URL
http://ip-172-31-8-6.eu-west-1.compute.internal:8011/sample
Iteration 2 , apiweblogic Aug 17, 2017 9:23 PM +00:00
ID: 110
Action: DEPLOY
Runtime State: ACTIVE
2 Node(s): 2

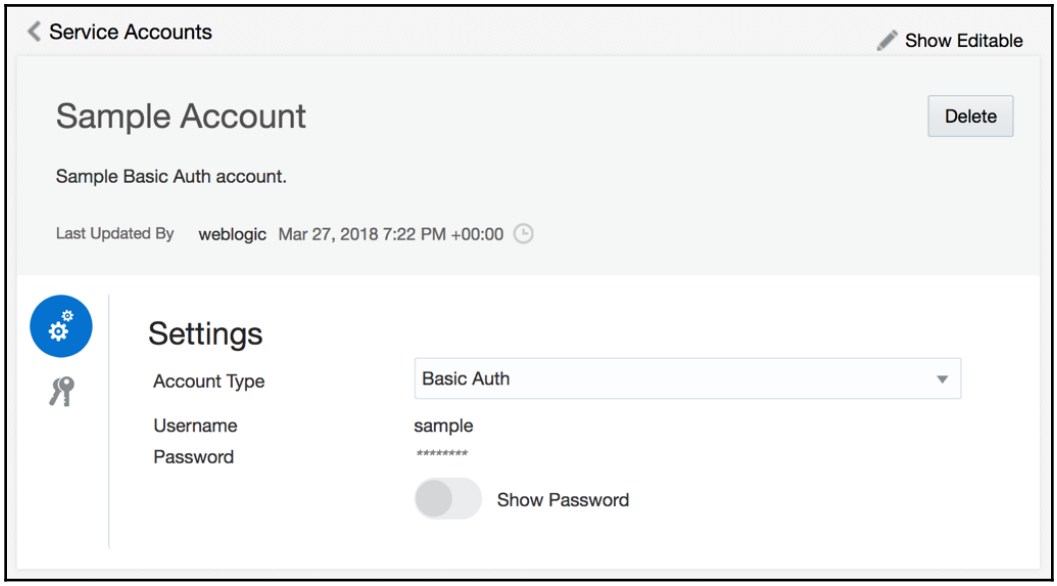

Dev | R 17.2.5
Development environment
Delete
Last Updated By apiweblogic Aug 17, 2017 9:21 PM +00:00
Grants
Manage Gateway (3)
View all details (0)
Deploy to Gateway (0)
Request Deployment to Gateway (0)
Node service account (11)
Manage Gateway - Users issued this grant are allowed to manage API deployments to this gateway and manage the gateway itself.
Add Grantee
Grantee
Added By
Added On
Role
APICSAdministrators apimgwayopsusr Jul 20, 2017 1:00 PM +00:00 Administrator
APIGatewayManagers apimgwayopsusr Jul 20, 2017 1:00 PM +00:00 GatewayManager

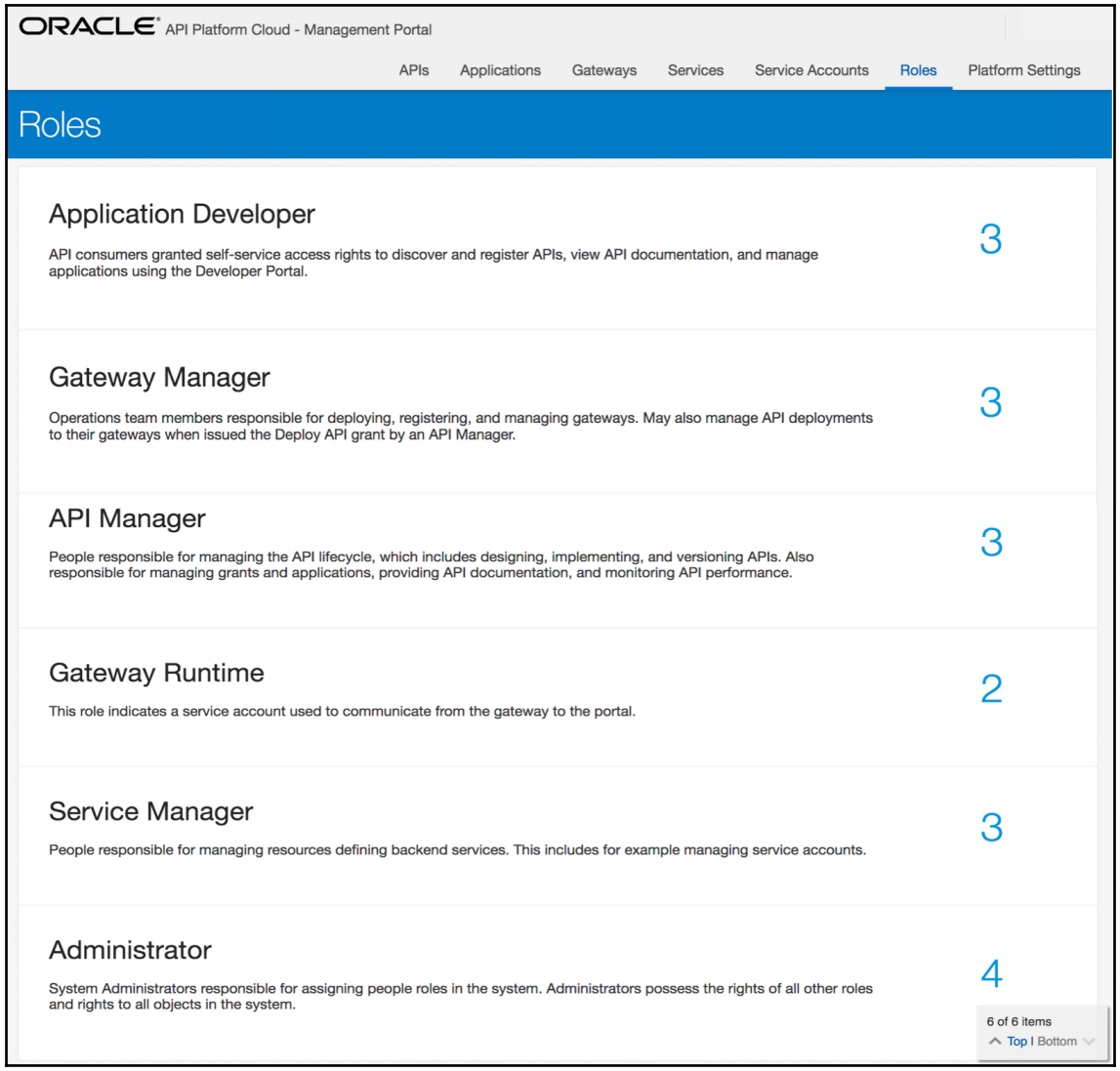

Dev | R 17.2.5
Development environment
Delete
Last Updated By apiweblogic Aug 17, 2017 9:21 PM +00:00
Analytics
APIs
Applications
Today
Last 24 Hours
Other
Aug 17, 2017 12:00 AM +00:00 - Aug 17, 2017 10:12 PM +00:00
General
61
Total Requests
Applications
1
Active
Errors and Rejections
0
Total
Request Volume
All
Successful
Rejected
Failed

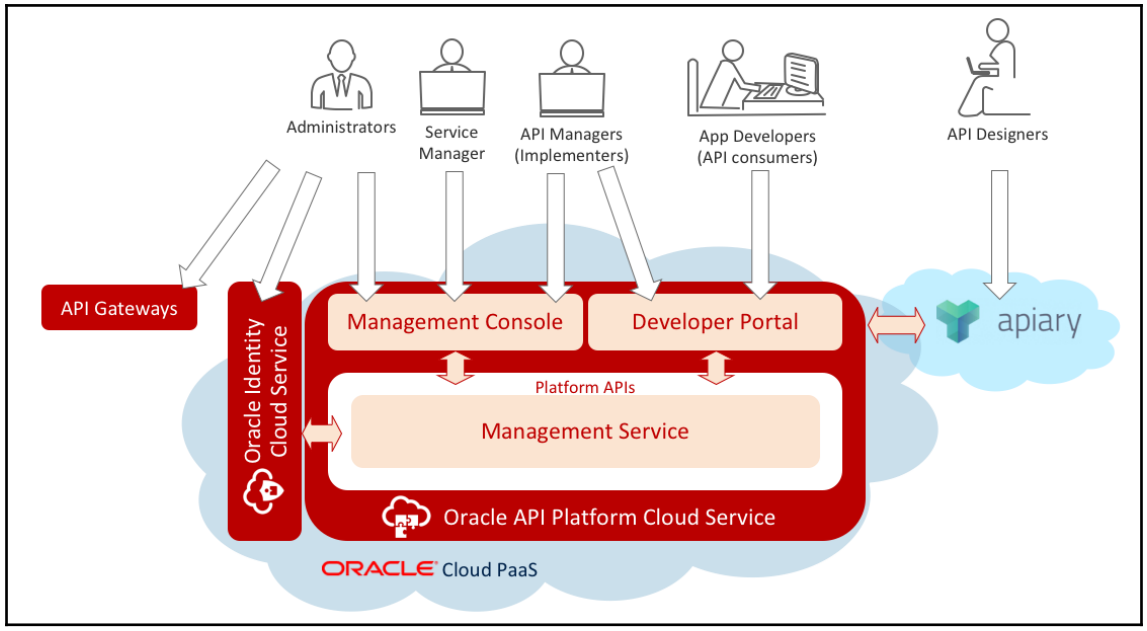

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Services
Search By Name
Advanced
Newest
Create Service
Sample Service 1.0
Active
Description
Sample service
Created By weblogic Mar 27, 2018 7:15 PM +00:00


Services
Show Editable
Sample Service
1.0
Active
Delete
Sample service
Last Updated By
weblogic
Mar 27, 2018 7:37 PM +00:00
Settings
Endpoint Name
Development Endoint
Service URL
http://httpbin.org/anything
Use Gateway Node Proxy
Service Account
Sample Account


ORACLE
API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Service Accounts
Search By Name
Advanced
Newest
Create Service Account
Sample Account
Basic Auth
Description
Sample Basic Auth account.
Created By
weblogic
Mar 25, 2018 7:17 PM +00:00

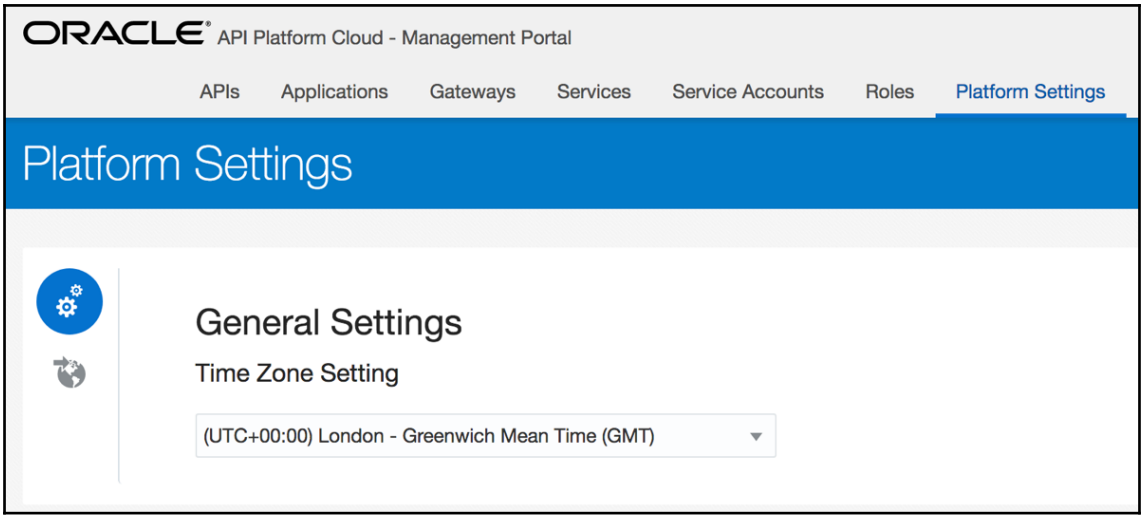

Service Accounts
Show Editable
Sample Account
Delete
Sample Basic Auth account.
Last Updated By
weblogic
Mar 27, 2018 7:22 PM +00:00
Settings
Account Type
Basic Auth
Username
sample
Password
****
Show Password

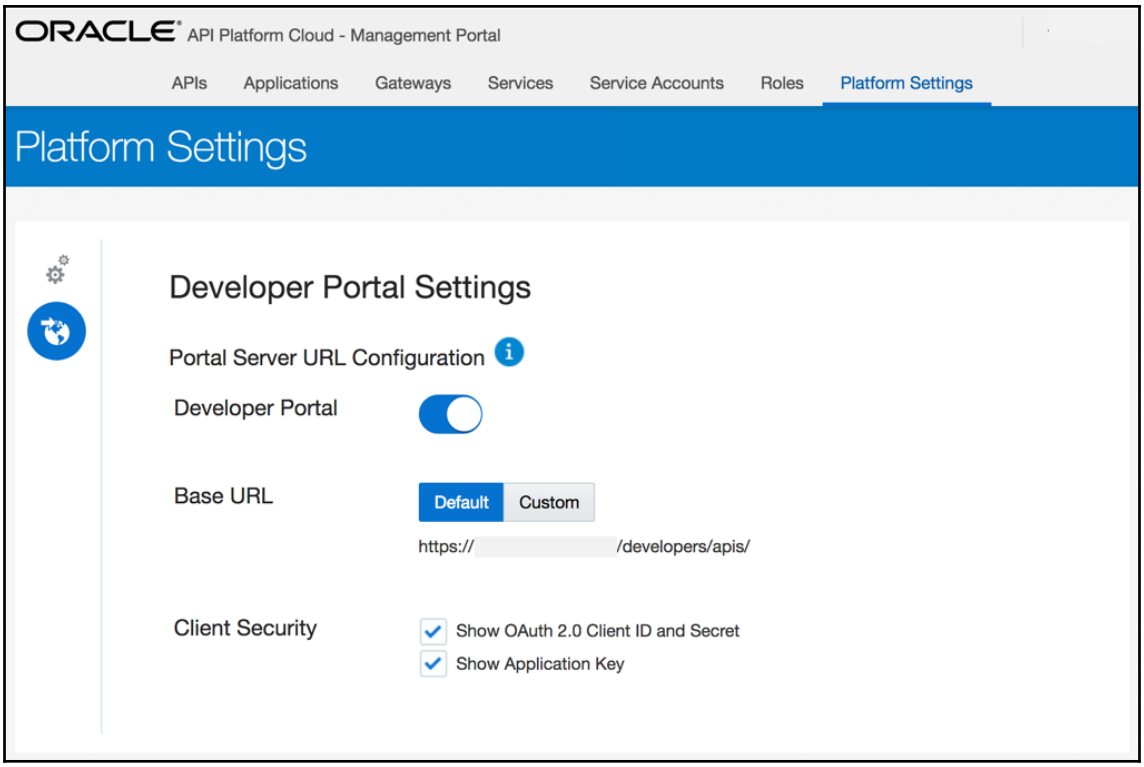

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Roles
Application Developer
API consumers granted self-service access rights to discover and register APIs, view API documentation, and manage applications using the Developer Portal.
3
Gateway Manager
Operations team members responsible for deploying, registering, and managing gateways. May also manage API deployments to their gateways when issued the Deploy API grant by an API Manager.
3
API Manager
People responsible for managing the API lifecycle, which includes designing, implementing, and versioning APIs. Also responsible for managing grants and applications, providing API documentation, and monitoring API performance.
3
Gateway Runtime
This role indicates a service account used to communicate from the gateway to the portal.
2
Service Manager
People responsible for managing resources defining backend services. This includes for example managing service accounts.
3
Administrator
System Administrators responsible for assigning people roles in the system. Administrators possess the rights of all other roles and rights to all objects in the system.
4
6 of 6 items
Top | Bottom

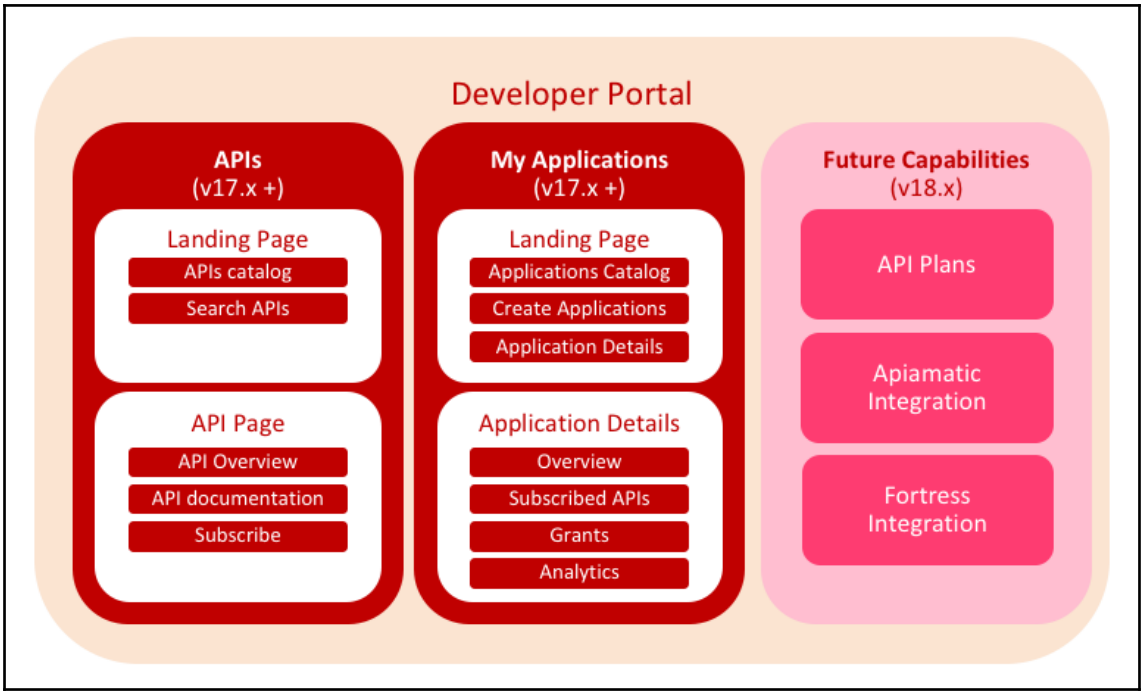


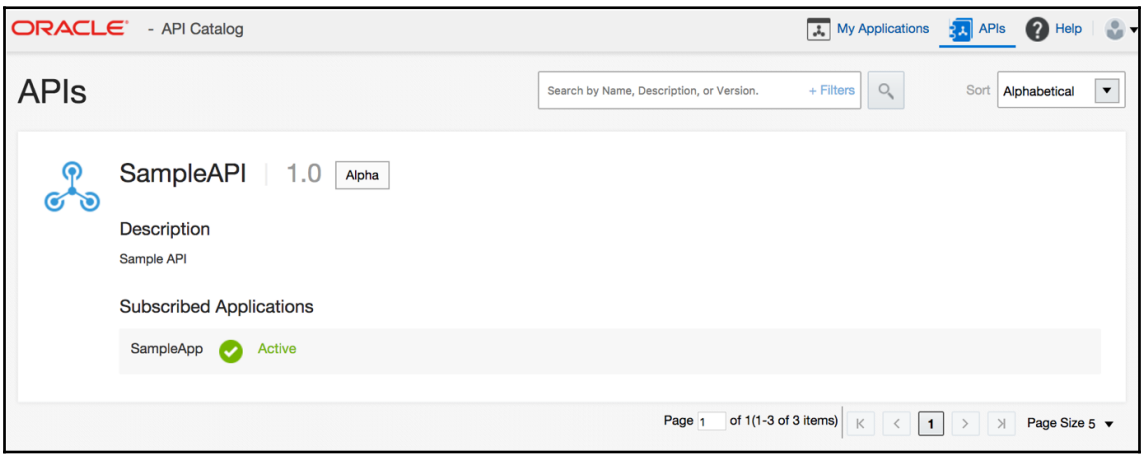
	APIs				Services			Service Accounts			API Gateways					Application		Plans				
Grants	Manage API	View all details	Deploy API	View public details	Manage Service	View Service details	Reference Service	Manage Service Account	View Service Account details	Reference Service Account	Manage Gateway	View all details	Deploy to Gateway	Request Deployment to Gateway	Node Service Account	Manage Application	View all details	Manage the plan	View all details	View public details	Register	Request registration
API Manager	Y	Y	Y	Y	N	Y	Y	N	Y	Y	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y
Service Manager	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
Application Developer	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	Y	Y	N	N	Y	Y	Y
Gateway Manager	N	Y	Y	N	N	Y	N	N	Y	N	Y	Y	Y	N	N	N	Y	N	N	N	N	N
Gateway Runtime	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	N	N	N
Administrator	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

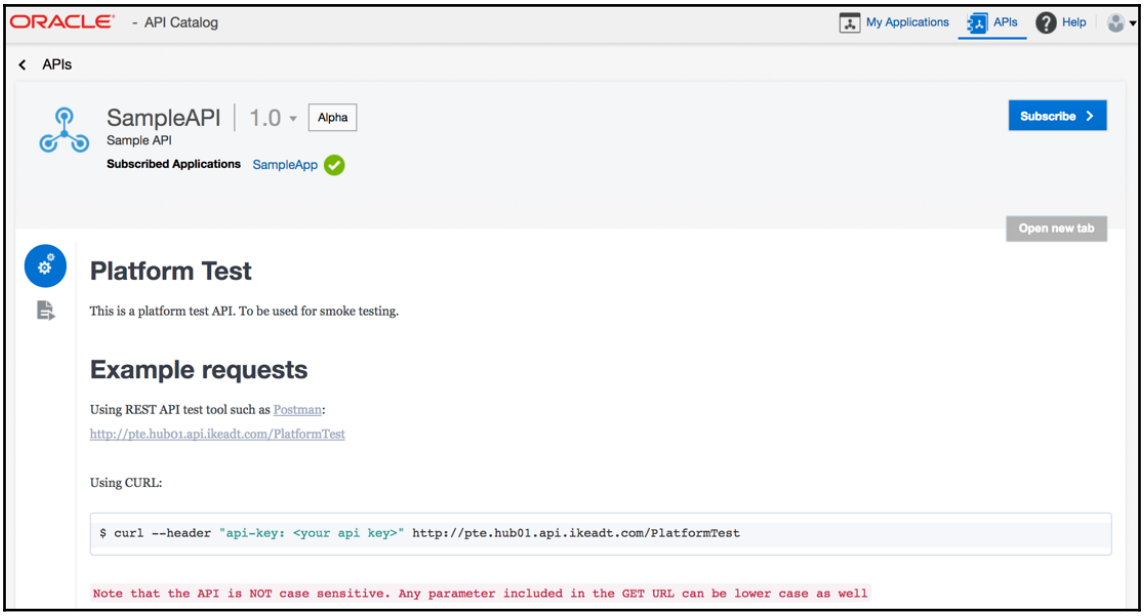
Grants	Description	API Manager	Service Manager	Application Developer	Gateway Manager	Gateway Runtime	Administrator
API							
Manage API	Users issued this grant are allowed to modify the definition of and issue grants for this API.	Y	N	N	N	N	Y
View all details	Users issued this grant are allowed to view all information about this API in the Management Portal.	Y	N	N	Y	N	Y
Deploy API	Users issued this grant are allowed to deploy or undeploy this API to a gateway for which they have deploy rights. This allows users to deploy this API without first receiving a request from an API Manager.	Y	N	N	Y	N	Y
View public details	Users issued this grant are allowed to view the publicly available details of this API on the Developer Portal.	Y	N	Y	N	N	Y
Services							
Manage Service	Users issued this grant are allowed to modify and delete this service.	N	Y	N	N	N	Y
View Service details	Users issued this grant are allowed to see all details about this service.	Y	Y	N	Y	N	Y
Reference Service	Users issued this grant are allowed to reference this service.	Y	Y	N	N	N	Y
Service Accounts							
Manage Service Account	Users issued this grant are allowed to modify and delete this service account.	N	Y	N	N	N	Y
View Service Account details	Users issued this grant are allowed to see all details about this service account.	Y	Y	N	Y	N	Y
Reference Service Account	Users issued this grant are allowed to reference this service account.	Y	Y	N	N	N	Y
API Gateways							
Manage Gateway	Users issued this grant are allowed to manage API deployments to this gateway and manage the gateway itself.	N	N	N	Y	N	Y
View all details	Users issued this grant are allowed to view all information about this gateway.	Y	N	N	Y	N	Y
Deploy to Gateway	Users issued this grant are allowed to deploy or undeploy APIs to this gateway.	Y	N	N	Y	N	Y
Request Deployment to Gateway	Users issued this grant are allowed to request API deployments to this gateway.	Y	N	N	N	N	Y
Node Service Account	Gateway Runtime service accounts are issued this grant to allow them to download configuration and upload statistics.	N	N	N	N	Y	Y
Application							
Manage Application	Users issued this grant are allowed to modify and delete this application.	Y	N	Y	N	N	Y
View all details	Users issued this grant are allowed to see all details about this application in the Developer Portal.	Y	N	Y	Y	N	Y
Plan							
Manage the plan	Users issued this grant are allowed to modify the definition of and issue users grants for this plan.	Y	N	N	N	N	Y
View all details	Users issued this grant are allowed to view all details of this plan in the Management Portal.	Y	N	N	N	N	Y
View public details	Users issued this grant are allowed to see the public details of this plan in the Developer Portal.	Y	N	Y	N	N	Y
Register	Users issued this grant are allowed to register applications for this plan.	Y	N	Y	N	N	Y
Request registration	Users issued this grant are allowed to request to register applications for this plan.	Y	N	Y	N	N	Y

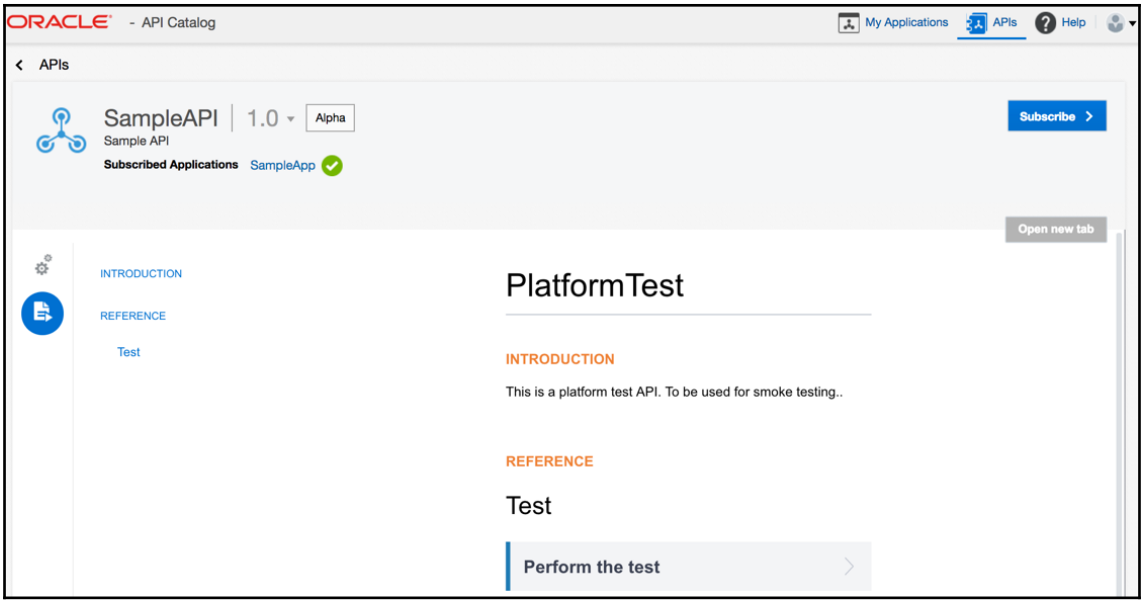

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Platform Settings
General Settings
Time Zone Setting
(UTC+00:00) London - Greenwich Mean Time (GMT)

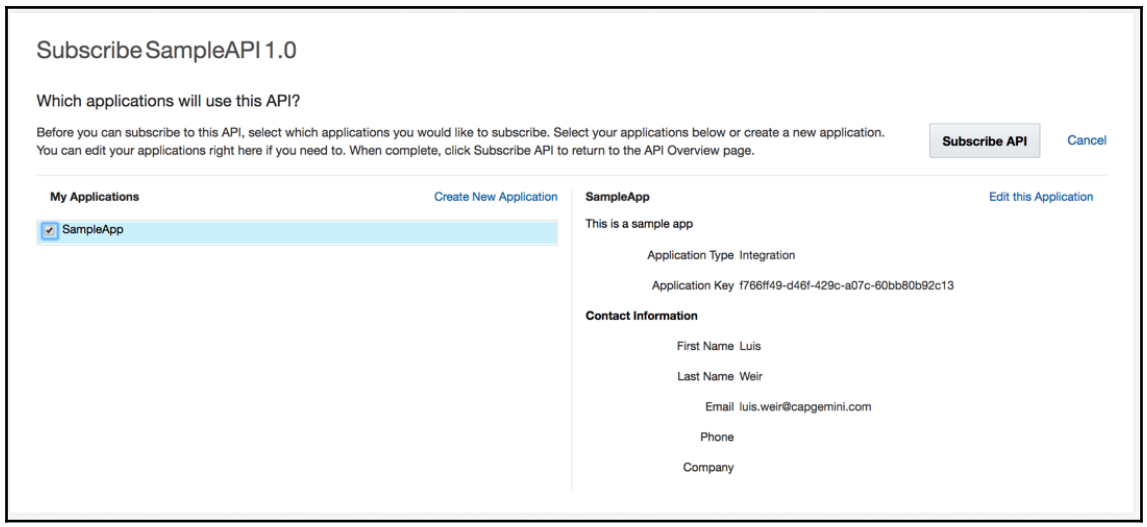

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Platform Settings
Developer Portal Settings
Portal Server URL Configuration
Developer Portal
Base URL
Default
Custom
https://
/developers/apis/
Client Security
Show OAuth 2.0 Client ID and Secret
Show Application Key


Developer Portal
APIs
(v17.x +)
Landing Page
APIs catalog
Search APIs
API Page
API Overview
API documentation
Subscribe
My Applications
(v17.x +)
Landing Page
Applications Catalog
Create Applications
Application Details
Application Details
Overview
Subscribed APIs
Grants
Analytics
Future Capabilities
(v18.x)
API Plans
Apiamatic Integration
Fortress Integration

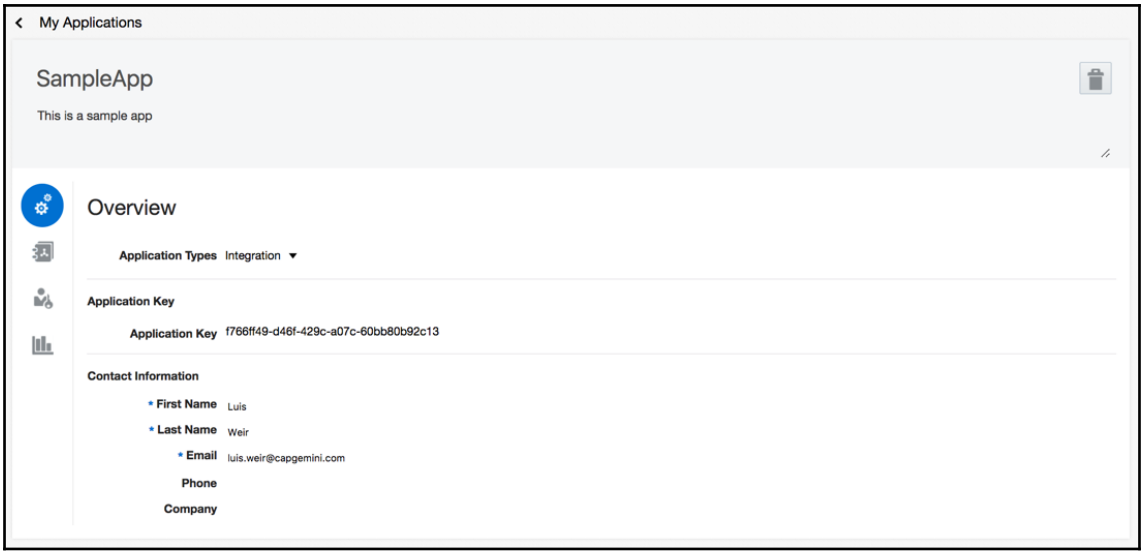

ORACLE - API Catalog
My Applications
APIs
Help
APIs
Search by Name, Description, or Version.
+ Filters
Sort
Alphabetical
SampleAPI
1.0
Alpha
Description
Sample API
Subscribed Applications
SampleApp
Active
Page 1 of 1(1-3 of 3 items)
1
Page Size 5


ORACLE - API Catalog
My Applications
APIs
Help
APIs
SampleAPI
1.0
Alpha
Sample API
Subscribed Applications
SampleApp
Subscribe
Open new tab
Platform Test
This is a platform test API. To be used for smoke testing.
Example requests
Using REST API test tool such as Postman:
http://pte.hub01.api.ikeadt.com/PlatformTest
Using CURL:
$ curl --header "api-key: <your api key>" http://pte.hub01.api.ikeadt.com/PlatformTest
Note that the API is NOT case sensitive. Any parameter included in the GET URL can be lower case as well


ORACLE - API Catalog
My Applications
APIs
Help
APIs
SampleAPI
1.0
Alpha
Sample API
Subscribed Applications
SampleApp
Subscribe
Open new tab
INTRODUCTION
REFERENCE
Test
PlatformTest
INTRODUCTION
This is a platform test API. To be used for smoke testing..
REFERENCE
Test
Perform the test

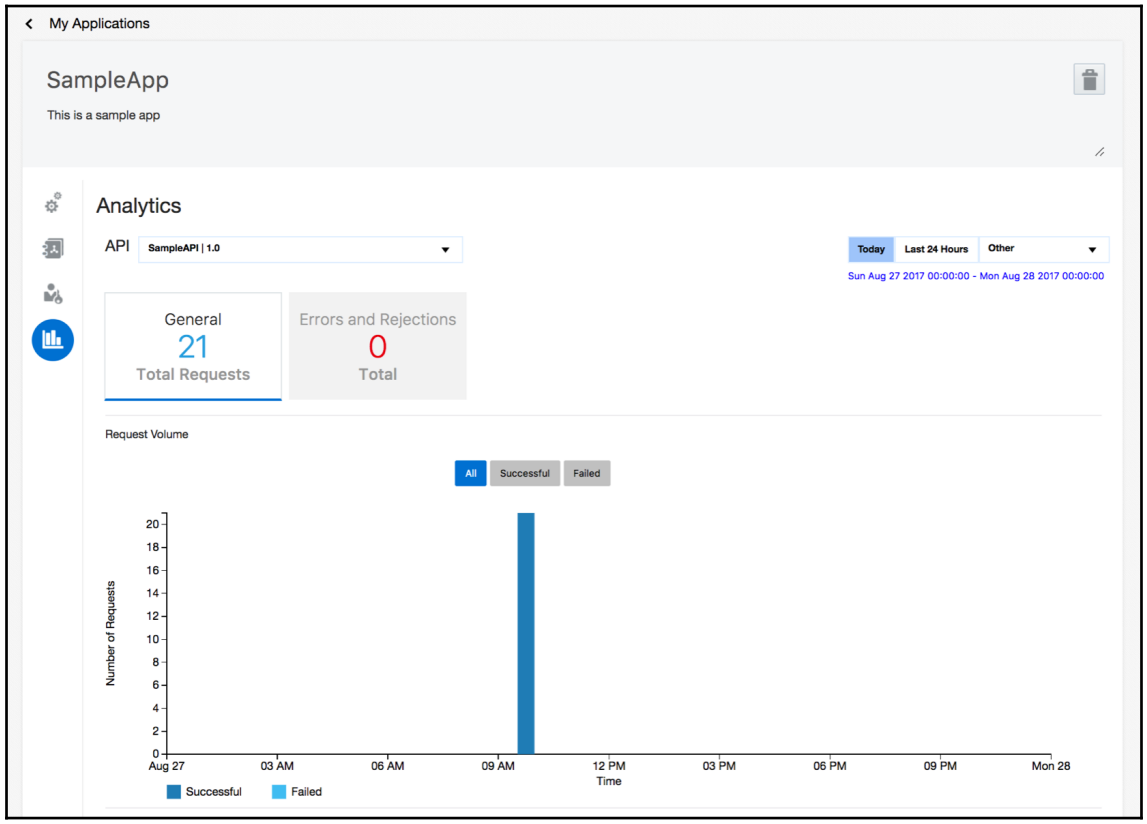

Subscribe SampleAPI 1.0
Which applications will use this API?
Before you can subscribe to this API, select which applications you would like to subscribe. Select your applications below or create a new application. You can edit your applications right here if you need to. When complete, click Subscribe API to return to the API Overview page.
Subscribe API
Cancel
My Applications
Create New Application
SampleApp
SampleApp
Edit this Application
This is a sample app
Application Type Integration
Application Key f766ff49-d46f-429c-a07c-60bb80b92c13
Contact Information
First Name Luis
Last Name Weir
Email luis.weir@capgemini.com
Phone
Company

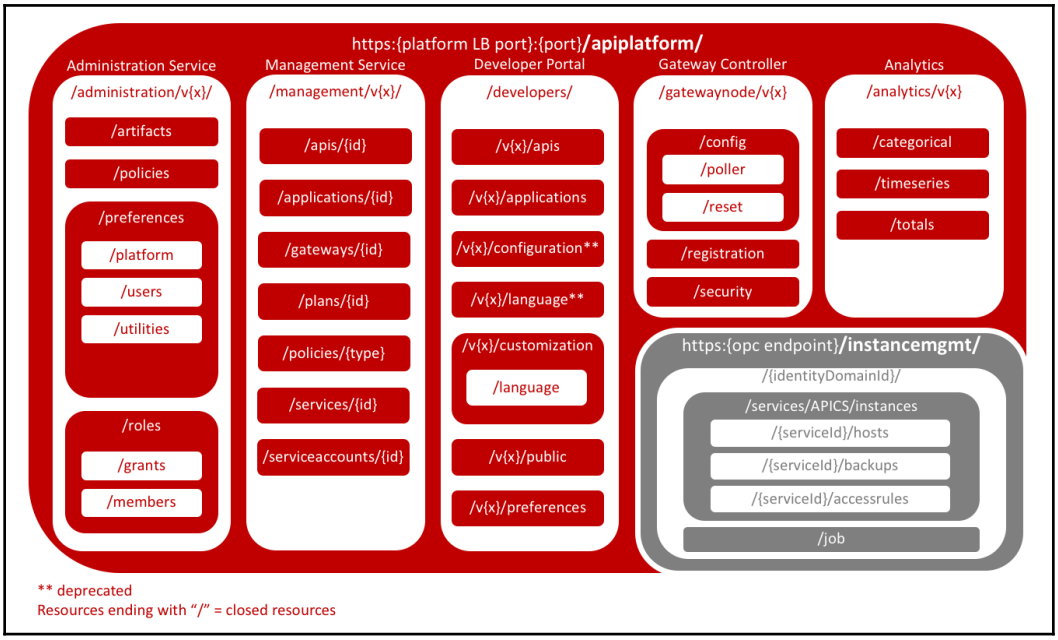
ORACLE - API Catalog
My Applications
APIs
Help
My Applications
New Application
SampleApp
Description
This is a sample app
Subscribed APIs
SampleAPI 1.0
Active
Page 1 of 1(1-1 of 1 items)
1
Page Size 5

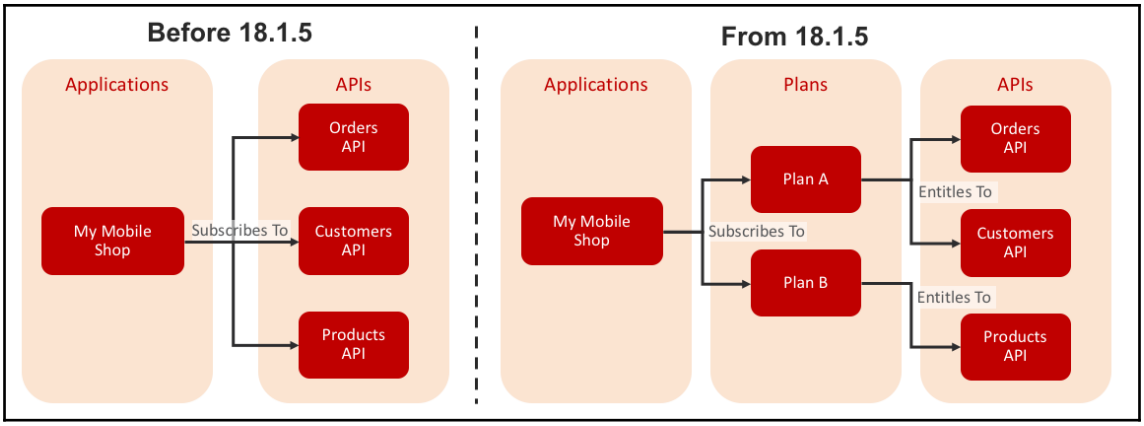

My Applications
SampleApp
This is a sample app
Overview
Application Types Integration
Application Key
Application Key f766ff49-d46f-429c-a07c-60bb80b92c13
Contact Information
First Name Luis
Last Name Weir
Email luis.weir@capgemini.com
Phone
Company

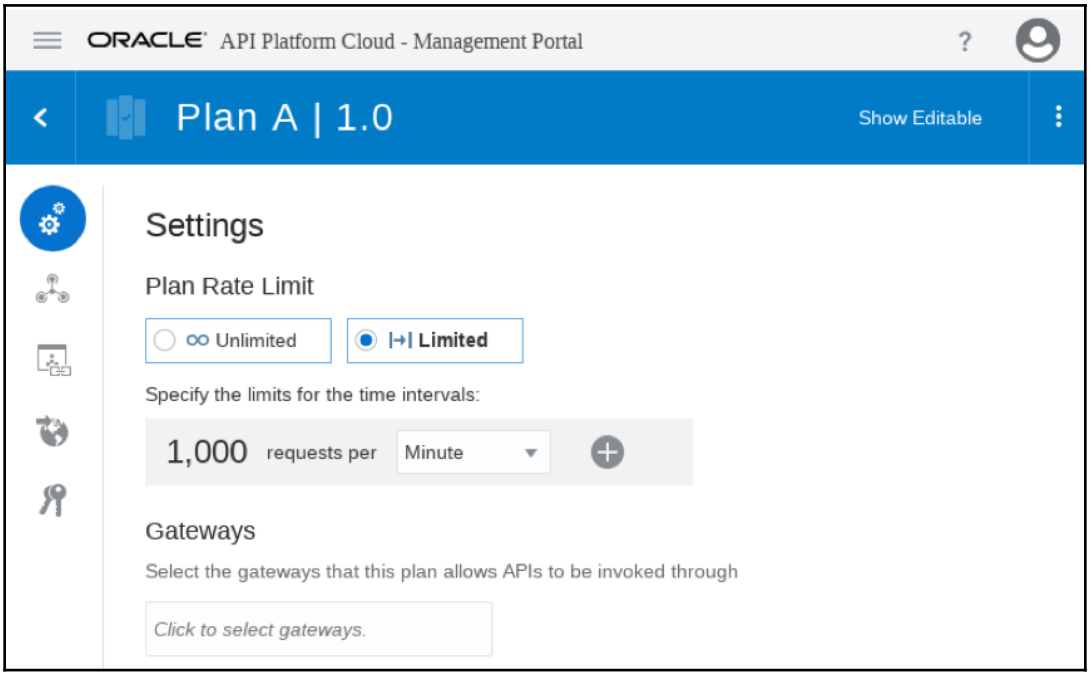
My Applications
SampleApp
This is a sample app
Subscribed APIs
SampleAPI 1.0 Active
Sample API

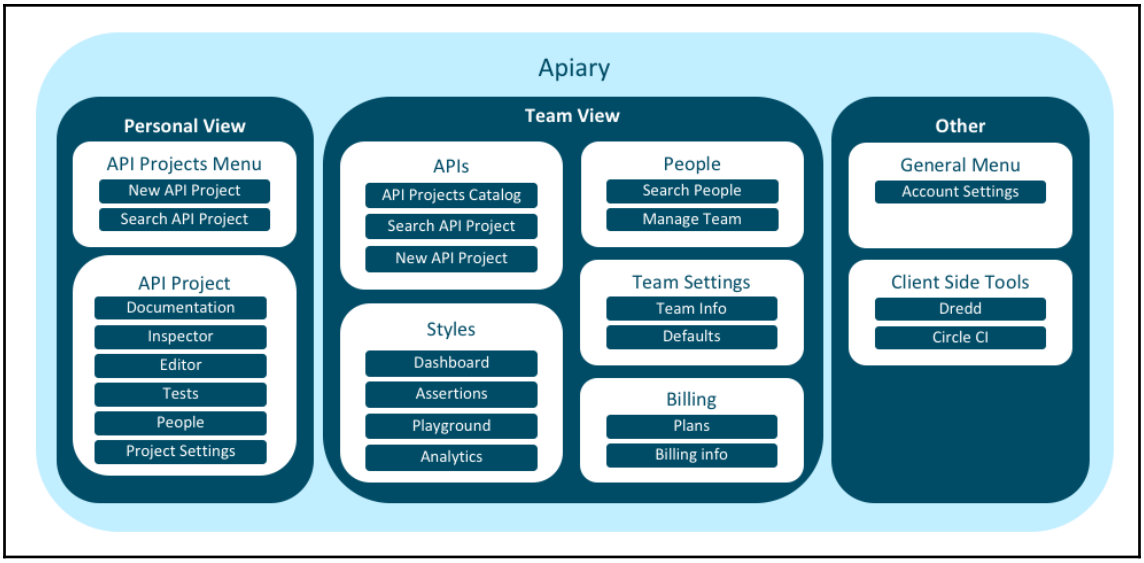
My Applications
SampleApp
This is a sample app
Grants
Manage Application(1)
View all details(0)
Add Grantee
Grantee
Role
luis.weir@capgemini.com


My Applications
SampleApp
This is a sample app
Analytics
API
SampleAPI | 1.0
Today
Last 24 Hours
Other
Sun Aug 27 2017 00:00:00 - Mon Aug 28 2017 00:00:00
General
21
Total Requests
Errors and Rejections
0
Total
Request Volume
All
Successful
Failed
Number of Requests
20
18
16
14
12
10
8
6
4
2
0
Aug 27
03 AM
06 AM
09 AM
12 PM
03 PM
06 PM
09 PM
Mon 28
Time
Successful
Failed

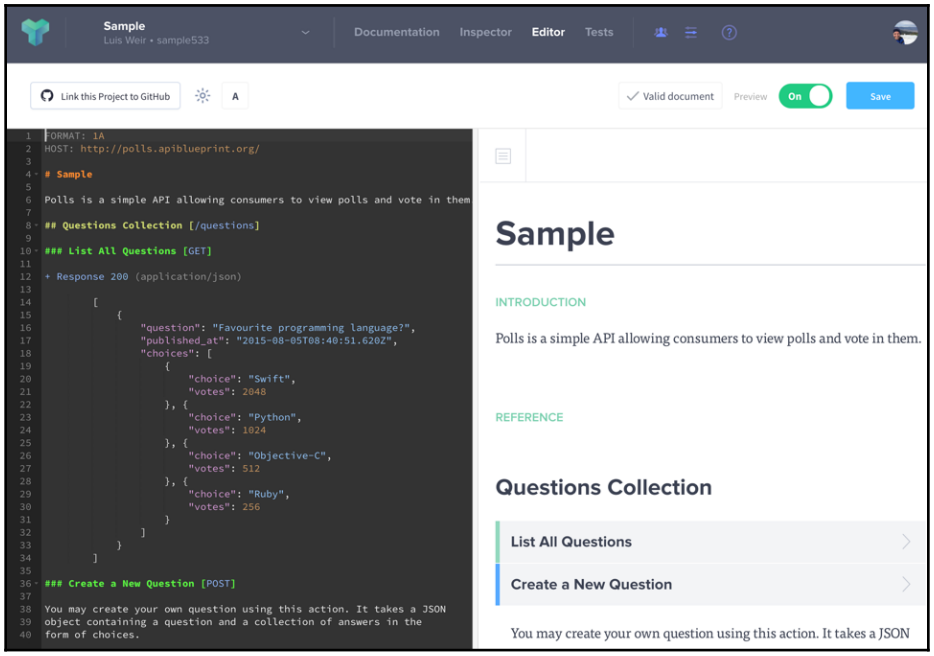

https:{platform LB port}:{port}/apiplatform/
Administration Service
/administration/v{x}/
/artifacts
/policies
/preferences
/platform
/users
/utilities
/roles
/grants
/members
Management Service
/management/v{x}/
/apis/{id}
/applications/{id}
/gateways/{id}
/plans/{id}
/policies/{type}
/services/{id}
/serviceaccounts/{id}
Developer Portal
/developers/
/v{x}/apis
/v{x}/applications
/v{x}/configuration**
/v{x}/language**
/v{x}/customization
/language
/v{x}/public
/v{x}/preferences
Gateway Controller
/gatewaynode/v{x}
/config
/poller
/reset
/registration
/security
Analytics
/analytics/v{x}
/categorical
/timeseries
/totals
https:{opc endpoint}/instancemgmt/
/{identityDomainId}/
/services/APICS/instances
/{serviceId}/hosts
/{serviceId}/backups
/{serviceId}/accessrules
/job
** deprecated
Resources ending with "/" = closed resources

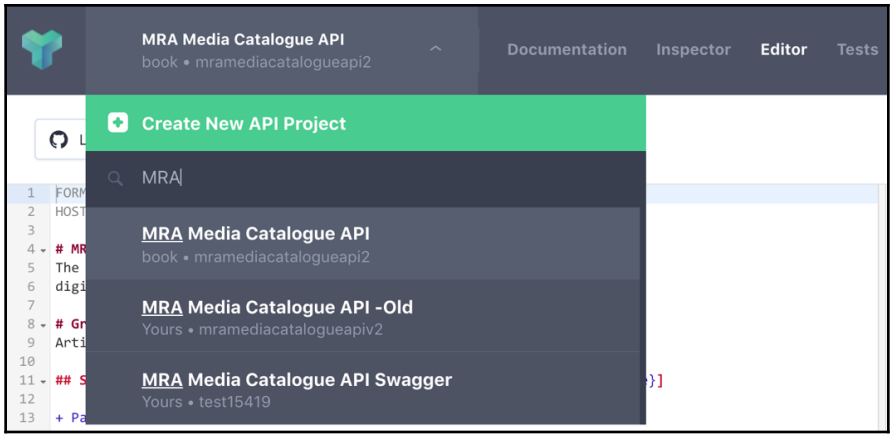

Before 18.1.5
Applications
APIs
My Mobile Shop
Subscribes To
Orders API
Customers API
Products API
From 18.1.5
Applications
Plans
APIs
My Mobile Shop
Subscribes To
Plan A
Plan B
Entitles To
Entitles To
Orders API
Customers API
Products API

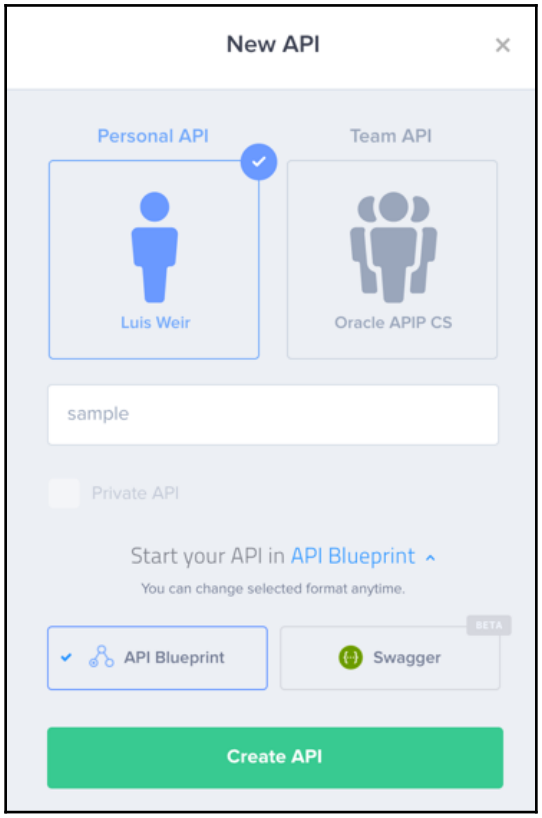

ORACLE API Platform Cloud - Management Portal
Plan A | 1.0
Show Editable
Settings
Plan Rate Limit
Unlimited
Limited
Specify the limits for the time intervals:
1,000 requests per Minute
Gateways
Select the gateways that this plan allows APIs to be invoked through
Click to select gateways.

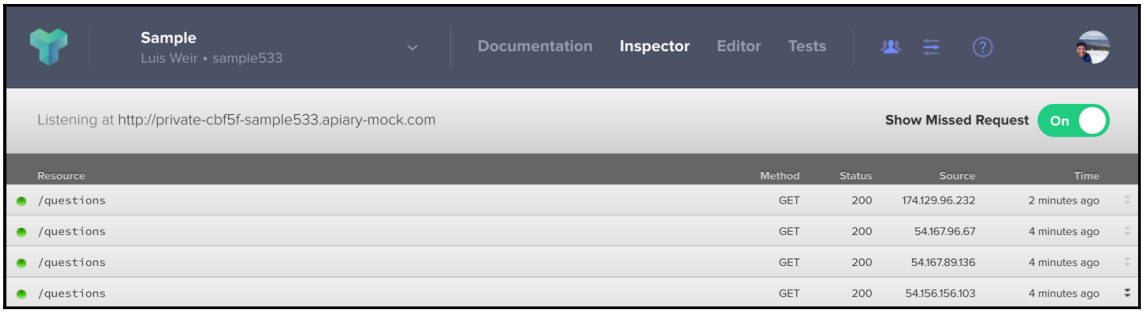

Apiary
Personal View
API Projects Menu
New API Project
Search API Project
API Project
Documentation
Inspector
Editor
Tests
People
Project Settings
Team View
APIs
API Projects Catalog
Search API Project
New API Project
Styles
Dashboard
Assertions
Playground
Analytics
People
Search People
Manage Team
Team Settings
Team Info
Defaults
Billing
Plans
Billing info
Other
General Menu
Account Settings
Client Side Tools
Dredd
Circle CI

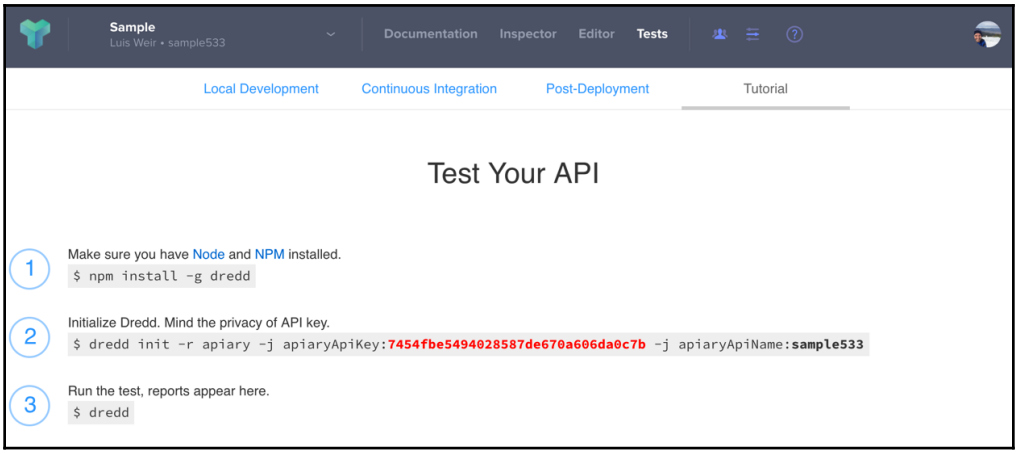
	Free	Standard	Pro
Core Toolset • API Description Editor • Mock Server • Interactive Documentation • Testing Debugger • Automated Implementation Testing (using Dredd) • RSS feeds for API changes	✓	✓	✓
API Projects Create as many API Projects as you want — Apiary supports API Blueprint and OpenAPI (Swagger) formats.	Unlimited	Unlimited	Unlimited
Collaborators Number of participants in an API Project or team.	5 per API Project No team	10 per API Project Unlimited team members	Custom
Basic GitHub Sync Connect Apiary with your GitHub repository to instantly sync changes you've made between the online editor and GitHub.	✓	✓	✓
Team Management Create a team to manage multiple API Projects or Microservices.	✗	✓	✓
Private API Projects Control access to your API designs, documentation, and associated tools across your team.	✗	✓	✓
Embeddable Documentation Embed interactive API documentation in your website or internal portal.	✗	✓	✓
Customizable Documentation Ensure embedded documentation adheres to your corporate identity standards.	✗	✓	✓
Advanced GitHub Integration • Multiple branches • Multiple API descriptions per repository • Support for integration with GitHub Enterprise	✗	✗	✓
Style Guide Rules Establish rules to ensure API design patterns are maintained across API Projects.	✗	✗	✓
Read Only API Projects and Branches	✗	✗	✓
Multiple Blueprints	✗	✗	✓
Priority Support Guaranteed 24x7 response times from our dedicated support team.	✗	✗	✓
Pricing Please see Oracle Apiary Cloud Service pricing.	Free	Per user in team	Per team member

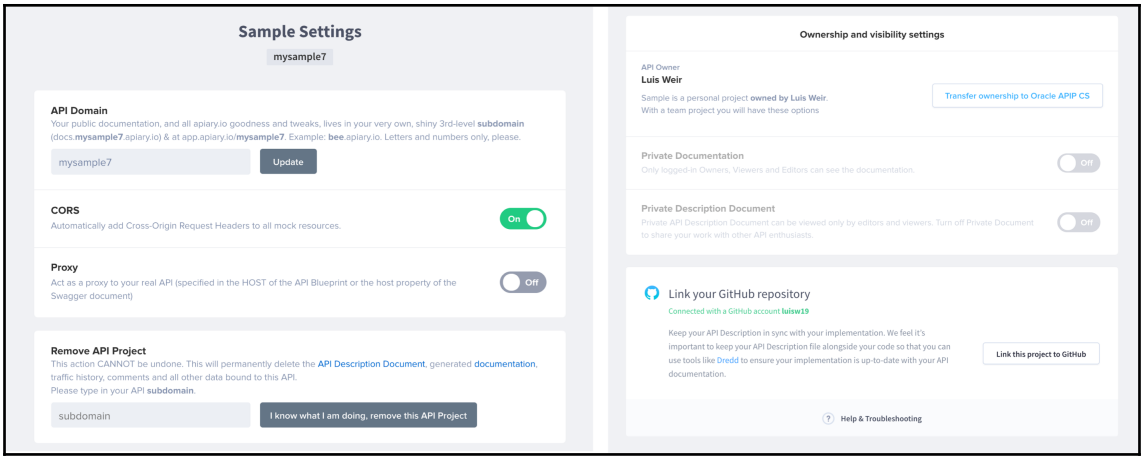

Sample
Luis Weir • sample533
Documentation
Inspector
Editor
Tests
Link this Project to GitHub
Valid document
Preview
On
Save
FORMAT: 1A
HOST: http://polls.apiblueprint.org/
Sample
Polls is a simple API allowing consumers to view polls and vote in them
Questions Collection [/questions]
List All Questions [GET]
+ Response 200 (application/json)
[
{
"question": "Favourite programming language?",
"published_at": "2015-08-05T08:40:51.620Z",
"choices": [
{
"choice": "Swift",
"votes": 2048
}, {
"choice": "Python",
"votes": 1024
}, {
"choice": "Objective-C",
"votes": 512
}, {
"choice": "Ruby",
"votes": 256
}
]
}
]
Create a New Question [POST]
You may create your own question using this action. It takes a JSON object containing a question and a collection of answers in the form of choices.
Sample
INTRODUCTION
Polls is a simple API allowing consumers to view polls and vote in them.
REFERENCE
Questions Collection
List All Questions
Create a New Question
You may create your own question using this action. It takes a JSON

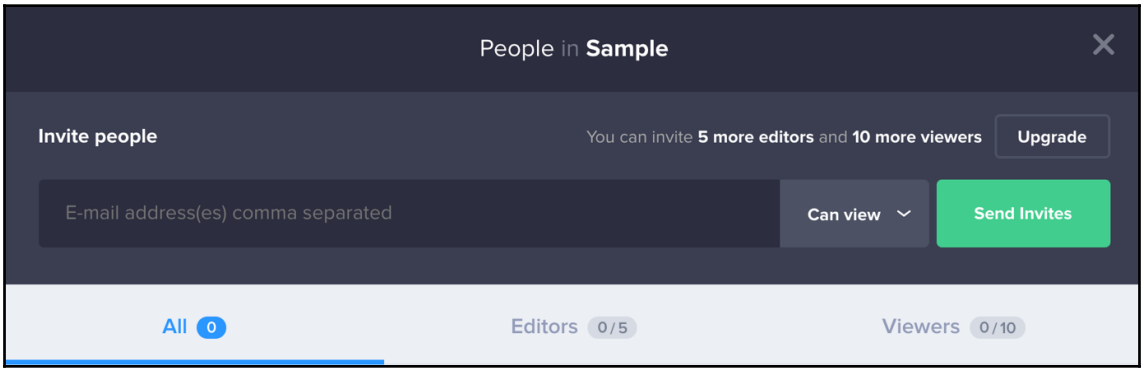

MRA Media Catalogue API
book • mramediacatalogueapi2
Documentation
Inspector
Editor
Tests
Create New API Project
MRA
MRA Media Catalogue API
book • mramediacatalogueapi2
MRA Media Catalogue API -Old
Yours • mramediacatalogueapiv2
MRA Media Catalogue API Swagger
Yours • test15419

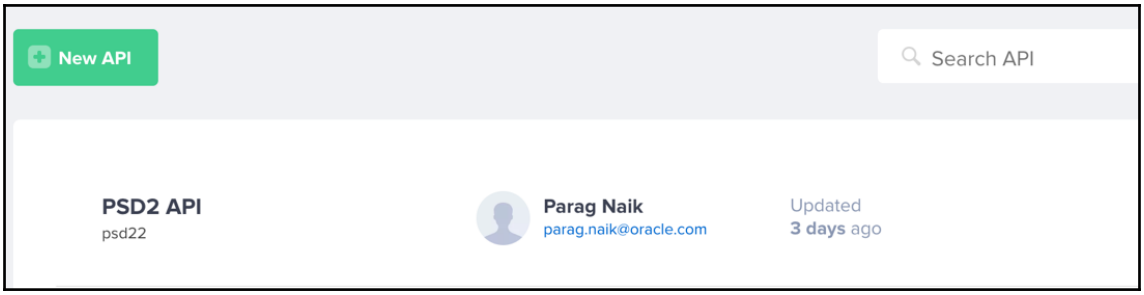

New API
Personal API
Team API
Luis Weir
Oracle APIP CS
sample
Private API
Start your API in API Blueprint
You can change selected format anytime.
API Blueprint
Swagger
BETA
Create API

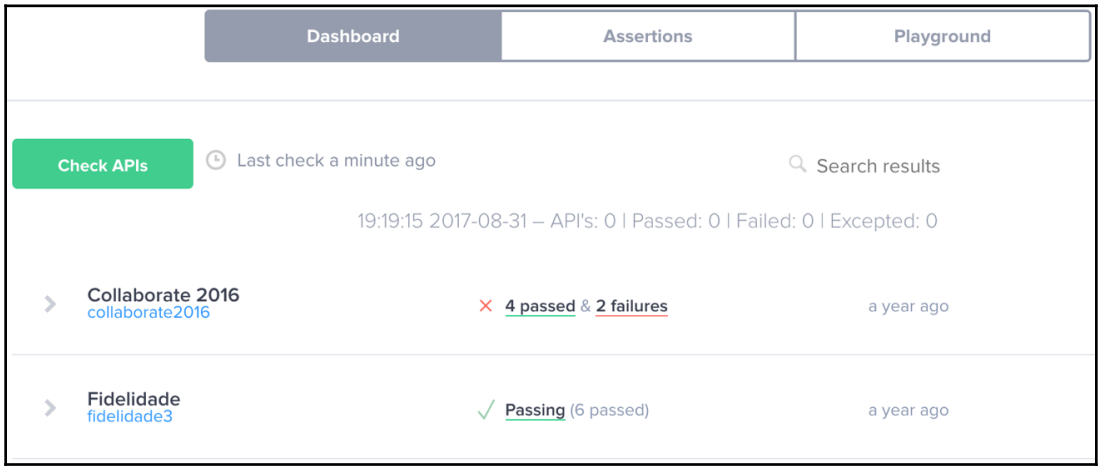

Sample
Luis Weir • sample533
Documentation
Inspector
Editor
Tests
Listening at http://private-cbf5f-sample533.apiary-mock.com
Show Missed Request
On
Resource
Method
Status
Source
Time
/questions GET 200 174.129.96.232 2 minutes ago
/questions GET 200 54.167.96.67 4 minutes ago
/questions GET 200 54.167.89.136 4 minutes ago
/questions GET 200 54.156.156.103 4 minutes ago

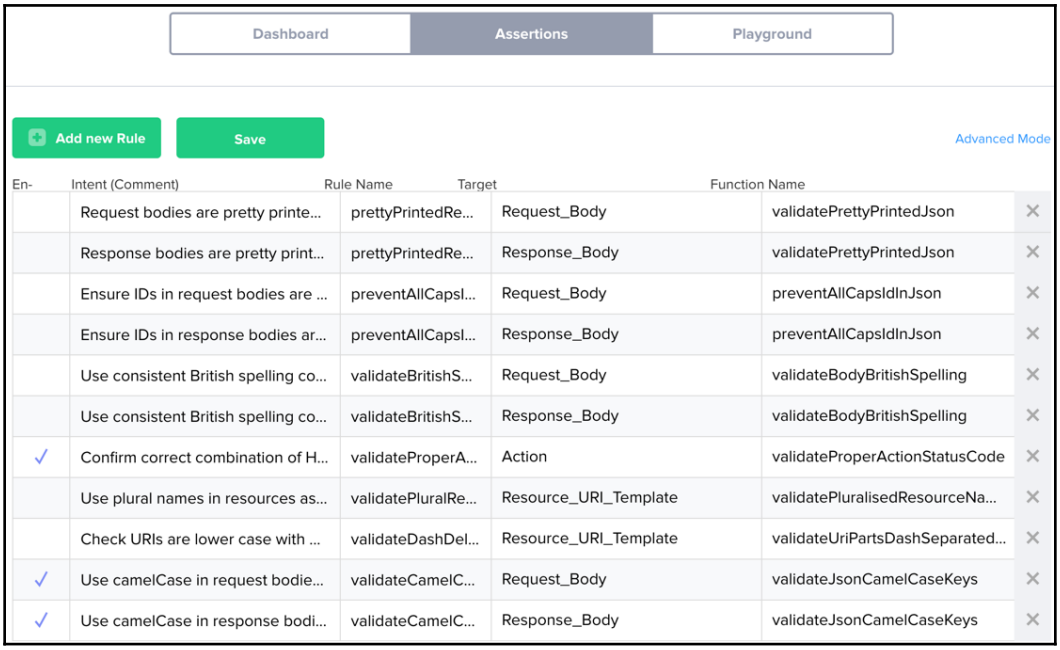

Sample
Luis Weir • sample533
Documentation
Inspector
Editor
Tests
Local Development
Continuous Integration
Post-Deployment
Tutorial
Test Your API
1
Make sure you have Node and NPM installed.
$ npm install -g dredd
2
Initialize Dredd. Mind the privacy of API key.
$ dredd init -r apiary -j apiaryApiKey:7454fbe5494028587de670a606da0c7b -j apiaryApiName:sample533
3
Run the test, reports appear here.
$ dredd

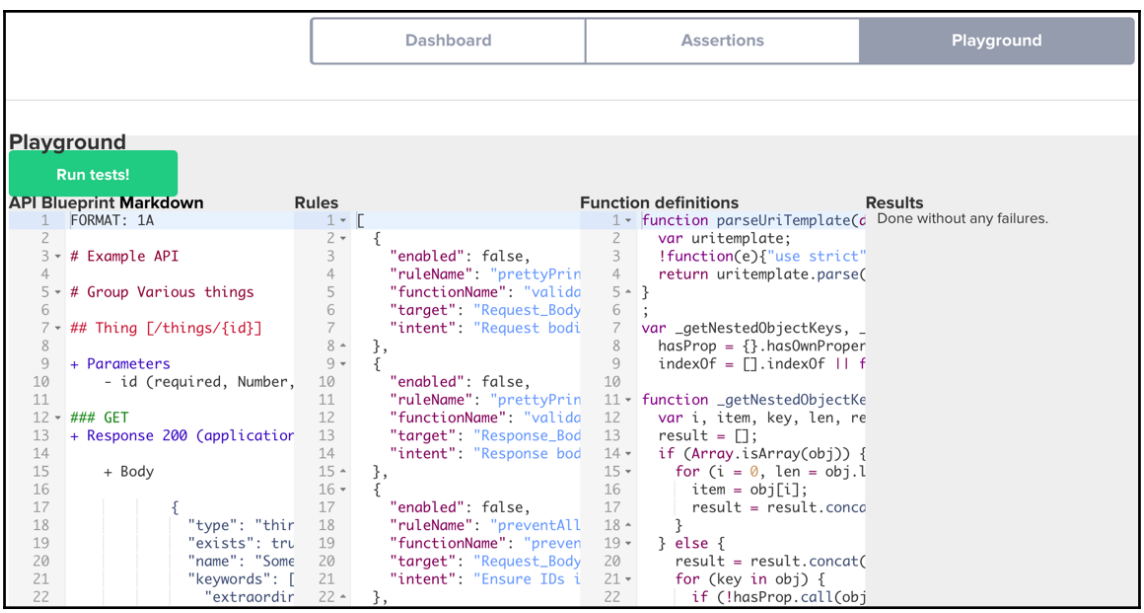

Sample Settings
mysample7
API Domain
Your public documentation, and all apiary.io goodness and tweaks, lives in your very own, shiny 3rd-level subdomain (docs.mysample7.apiary.io) & at app.apiary.io/mysample7. Example: bee.apiary.io. Letters and numbers only, please.
mysample7
Update
CORS
Automatically add Cross-Origin Request Headers to all mock resources.
On
Proxy
Act as a proxy to your real API (specified in the HOST of the API Blueprint or the host property of the Swagger document)
Off
Remove API Project
This action CANNOT be undone. This will permanently delete the API Description Document, generated documentation, traffic history, comments and all other data bound to this API.
Please type in your API subdomain.
subdomain
I know what I am doing, remove this API Project
Ownership and visibility settings
API Owner
Luis Weir
Sample is a personal project owned by Luis Weir.
With a team project you will have these options
Transfer ownership to Oracle APIP CS
Private Documentation
Only logged-in Owners, Viewers and Editors can see the documentation.
Off
Private Description Document
Private API Description Document can be viewed only by editors and viewers. Turn off Private Document to share your work with other API enthusiasts.
Off
Link your GitHub repository
Connected with a GitHub account luisw19
Keep your API Description in sync with your implementation. We feel it's important to keep your API Description file alongside your code so that you can use tools like Dredd to ensure your implementation is up-to-date with your API documentation.
Link this project to GitHub
Help & Troubleshooting

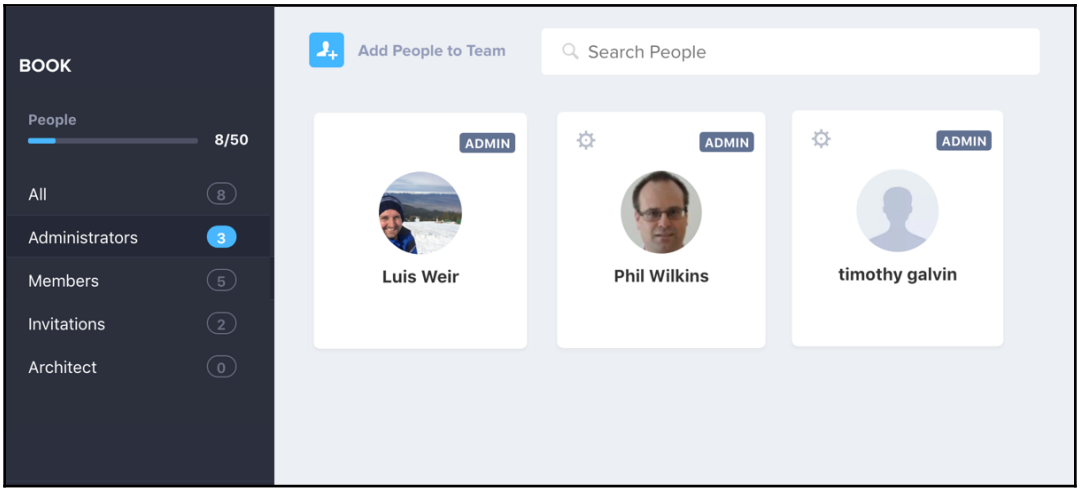

People in Sample
Invite people
You can invite 5 more editors and 10 more viewers
Upgrade
E-mail address(es) comma separated
Can view
Send Invites
All 0
Editors 0 / 5
Viewers 0 / 10

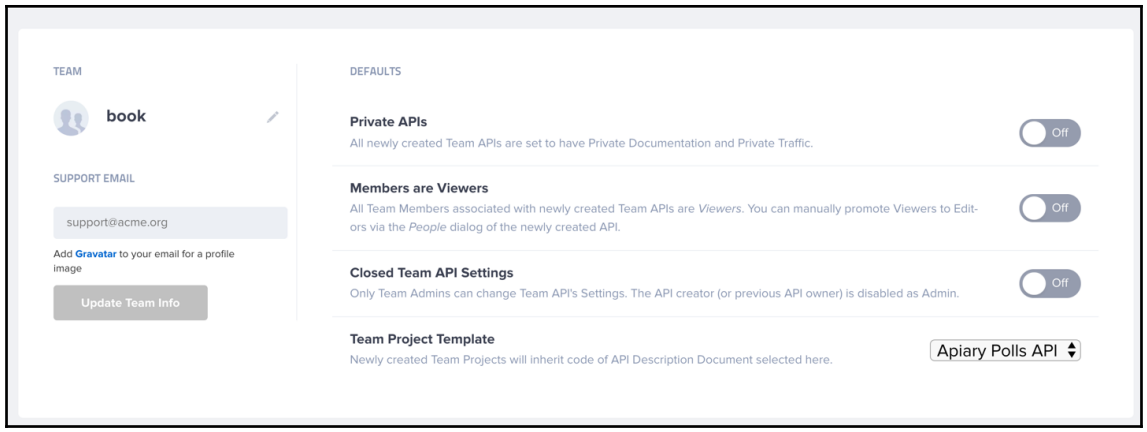

New API
Search API
PSD2 API
psd22
Parag Naik
parag.naik@oracle.com
Updated
3 days ago

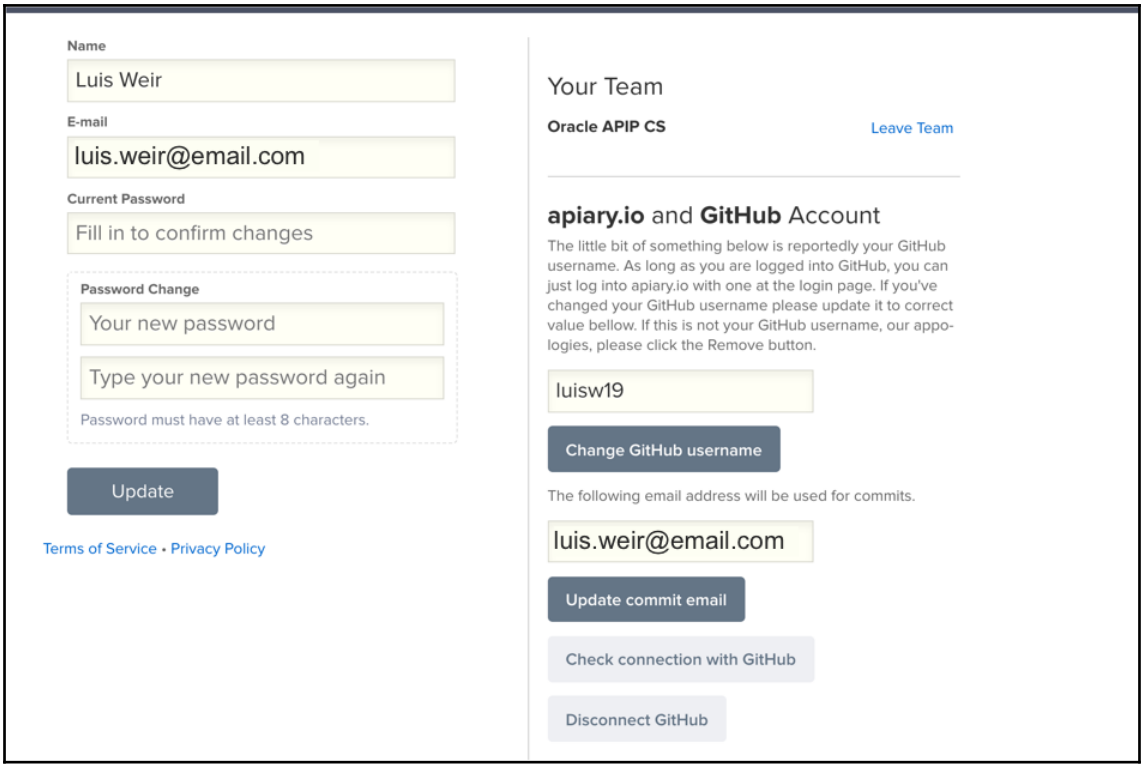

Dashboard
Assertions
Playground
Check APIs
Last check a minute ago
Search results
19:19:15 2017-08-31 – API's: 0 | Passed: 0 | Failed: 0 | Excepted: 0
Collaborate 2016
collaborate2016
4 passed & 2 failures
a year ago
Fidelidade
fidelidade3
Passing (6 passed)
a year ago


Dashboard
Assertions
Playground
Add new Rule
Save
Advanced Mode
En-
Intent (Comment)
Rule Name
Target
Function Name
Request bodies are pretty printe...
prettyPrintedRe...
Request_Body
validatePrettyPrintedJson
Response bodies are pretty print...
prettyPrintedRe...
Response_Body
validatePrettyPrintedJson
Ensure IDs in request bodies are ...
preventAllCapsI...
Request_Body
preventAllCapsIdInJson
Ensure IDs in response bodies ar...
preventAllCapsI...
Response_Body
preventAllCapsIdInJson
Use consistent British spelling co...
validateBritishS...
Request_Body
validateBodyBritishSpelling
Use consistent British spelling co...
validateBritishS...
Response_Body
validateBodyBritishSpelling
Confirm correct combination of H...
validateProperA...
Action
validateProperActionStatusCode
Use plural names in resources as...
validatePluralRe...
Resource_URI_Template
validatePluralisedResourceNa...
Check URIs are lower case with ...
validateDashDel...
Resource_URI_Template
validateUriPartsDashSeparated...
Use camelCase in request bodie...
validateCamelC...
Request_Body
validateJsonCamelCaseKeys
Use camelCase in response bodi...
validateCamelC...
Response_Body
validateJsonCamelCaseKeys

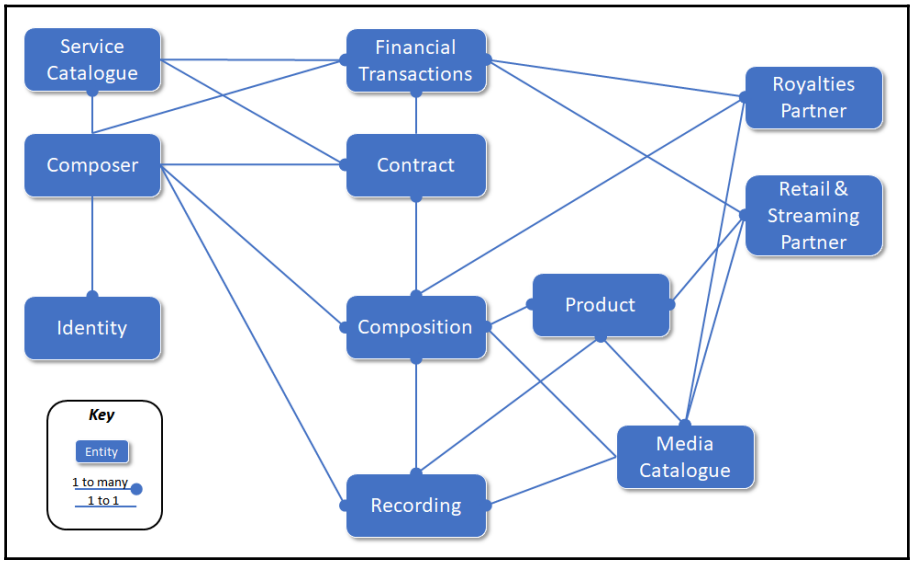

Dashboard
Assertions
Playground
Playground
Run tests!
API Blueprint Markdown
FORMAT: 1A
Example API
Group Various things
Thing [/things/{id}]
+ Parameters
- id (required, Number,
GET
+ Response 200 (applicatior
+ Body
Rules
Function definitions
Results
Done without any failures.

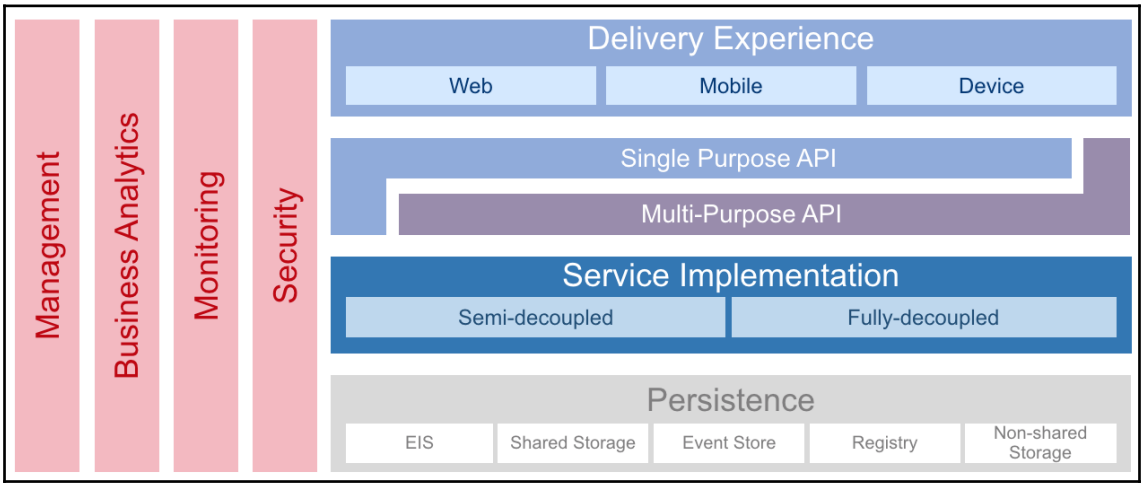

BOOK
People
8/50
All 8
Administrators 3
Members 5
Invitations 2
Architect 0
Add People to Team
Search People
ADMIN
Luis Weir
ADMIN
Phil Wilkins
ADMIN
timothy galvin

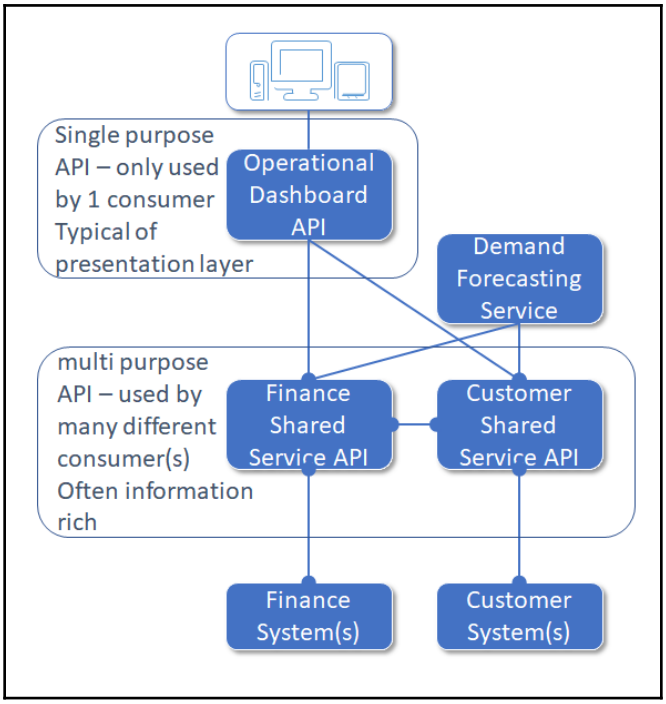

TEAM
book
SUPPORT EMAIL
support@acme.org
Add Gravatar to your email for a profile image
Update Team Info
DEFAULTS
Private APIs
All newly created Team APIs are set to have Private Documentation and Private Traffic.
Off
Members are Viewers
All Team Members associated with newly created Team APIs are Viewers. You can manually promote Viewers to Editors via the People dialog of the newly created API.
Off
Closed Team API Settings
Only Team Admins can change Team API's Settings. The API creator (or previous API owner) is disabled as Admin.
Off
Team Project Template
Newly created Team Projects will inherit code of API Description Document selected here.
Apiary Polls API

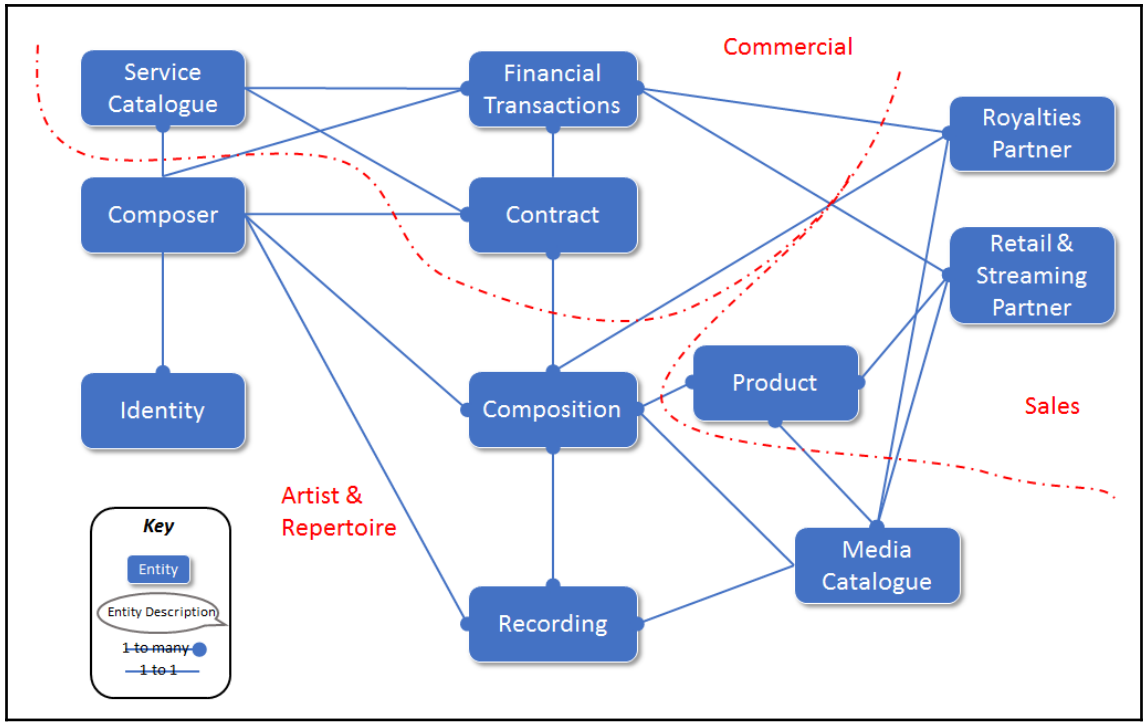

Name
Luis Weir
E-mail
luis.weir@email.com
Current Password
Fill in to confirm changes
Password Change
Your new password
Type your new password again
Password must have at least 8 characters.
Update
Terms of Service • Privacy Policy
Your Team
Oracle APIP CS
Leave Team
apiary.io and GitHub Account
The little bit of something below is reportedly your GitHub username. As long as you are logged into GitHub, you can just log into apiary.io with one at the login page. If you've changed your GitHub username please update it to correct value bellow. If this is not your GitHub username, our appologies, please click the Remove button.
luisw19
Change GitHub username
The following email address will be used for commits.
luis.weir@email.com
Update commit email
Check connection with GitHub
Disconnect GitHub

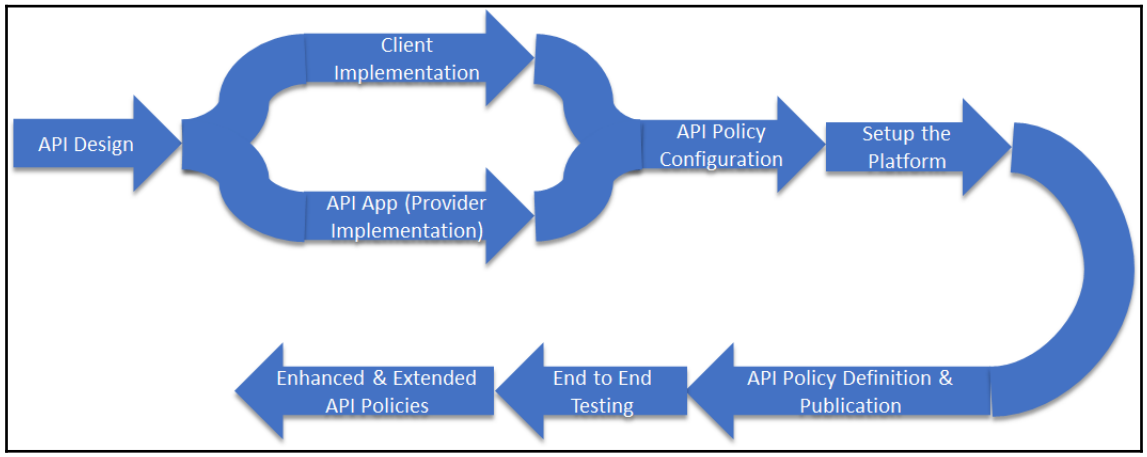
Chapter 2: Use Case



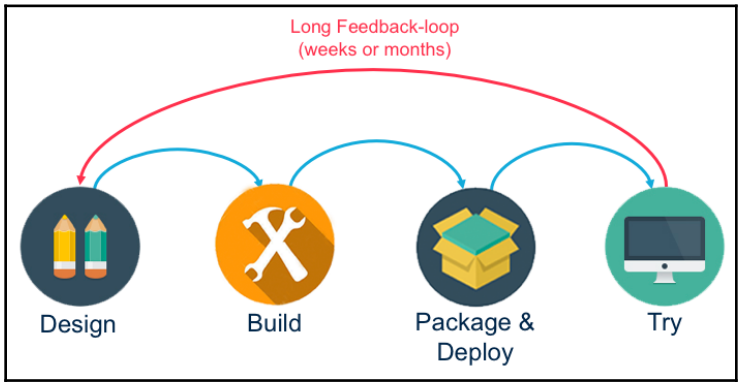


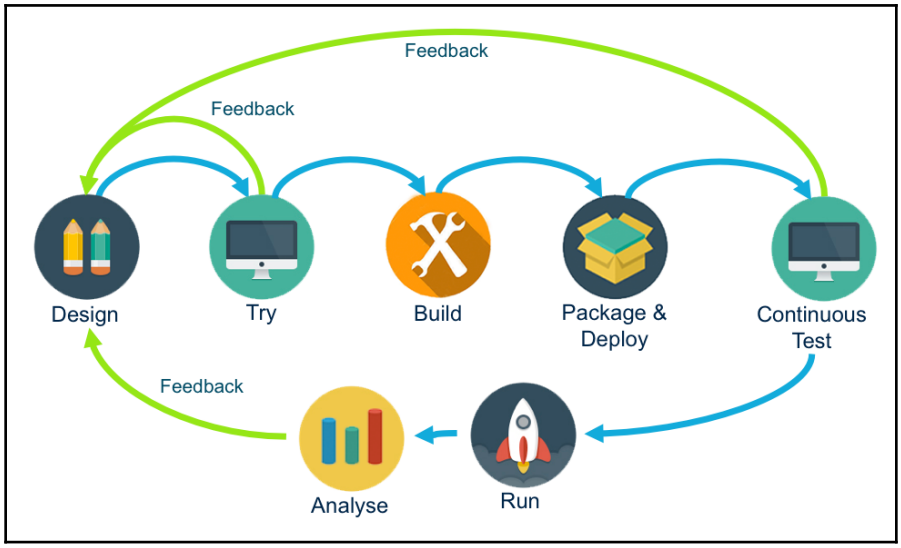

Single purpose API – only used by 1 consumer Typical of presentation layer
Operational Dashboard API
Demand Forecasting Service
multi purpose API – used by many different consumer(s) Often information rich
Finance Shared Service API
Customer Shared Service API
Finance System(s)
Customer System(s)

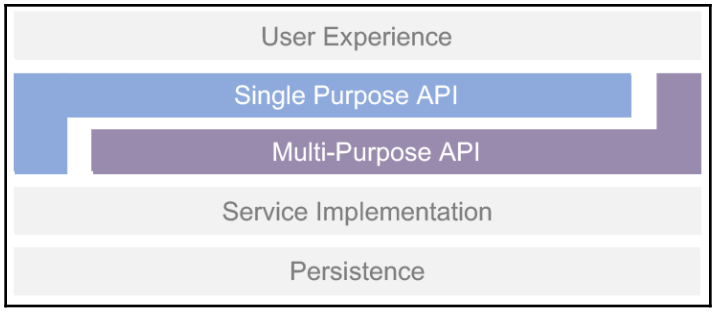

Service Catalogue
Financial Transactions
Commercial
Royalties Partner
Composer
Contract
Retail & Streaming Partner
Identity
Composition
Product
Sales
Artist & Repertoire
Key
Entity
Entity Description
1 to many
1 to 1
Media Catalogue
Recording

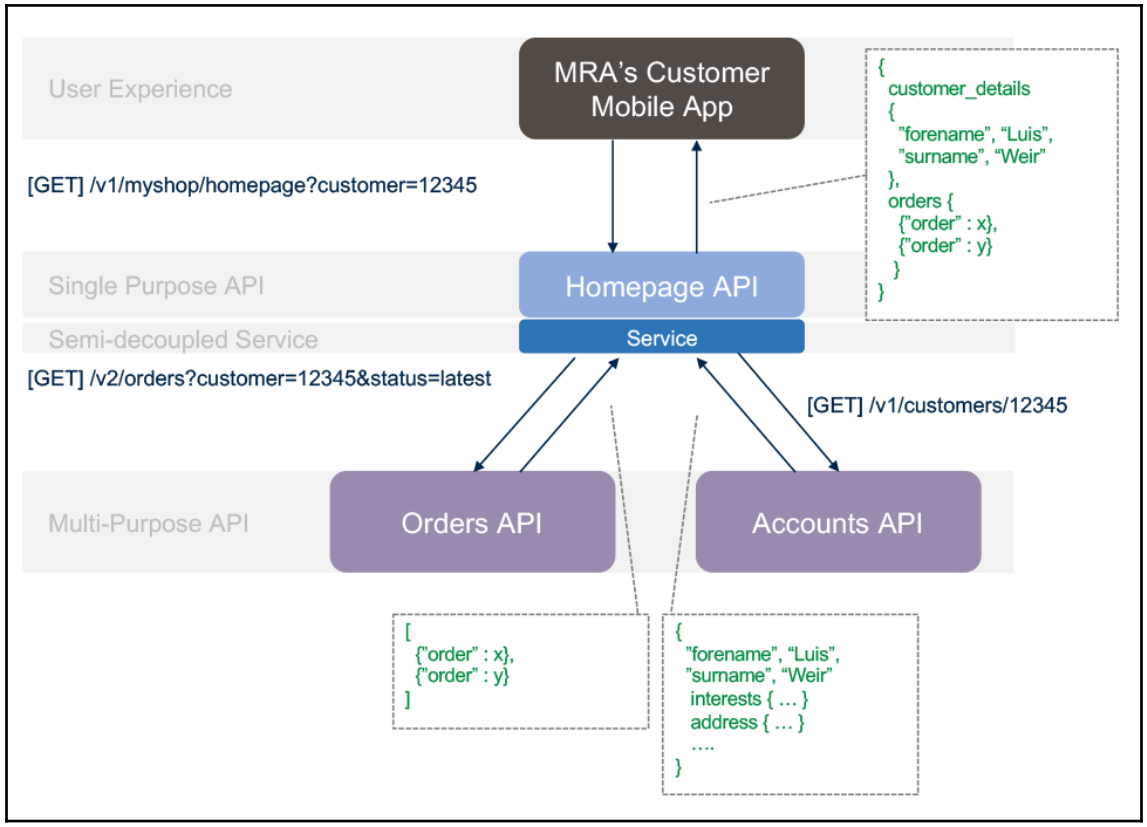

API Design
Client Implementation
API App (Provider Implementation)
API Policy Configuration
Setup the Platform
API Policy Definition & Publication
End to End Testing
Enhanced & Extended API Policies

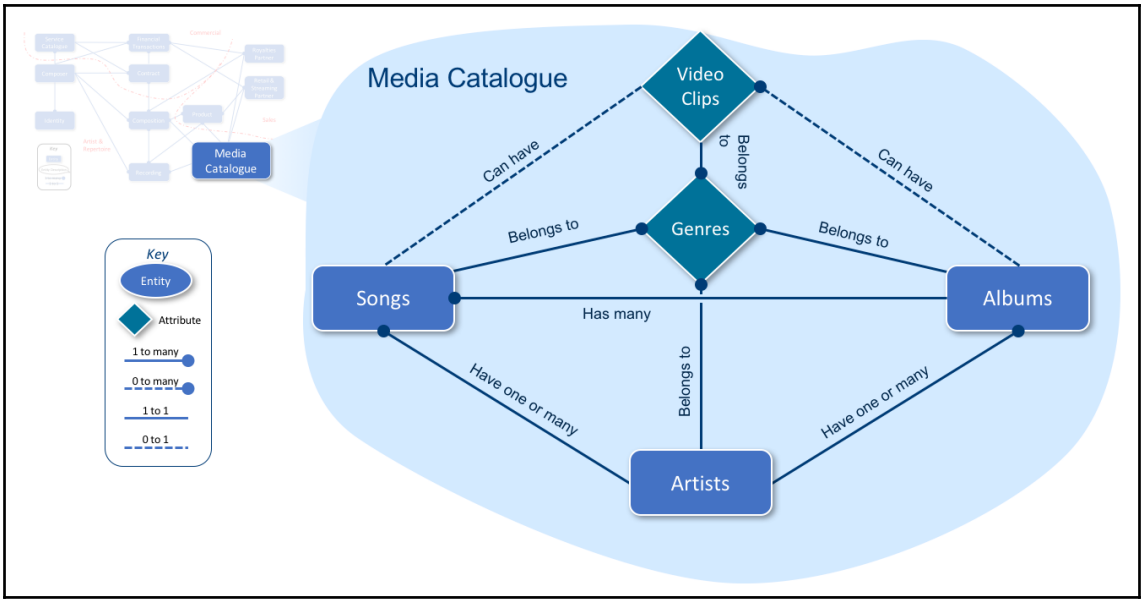
Chapter 3: Designing the API

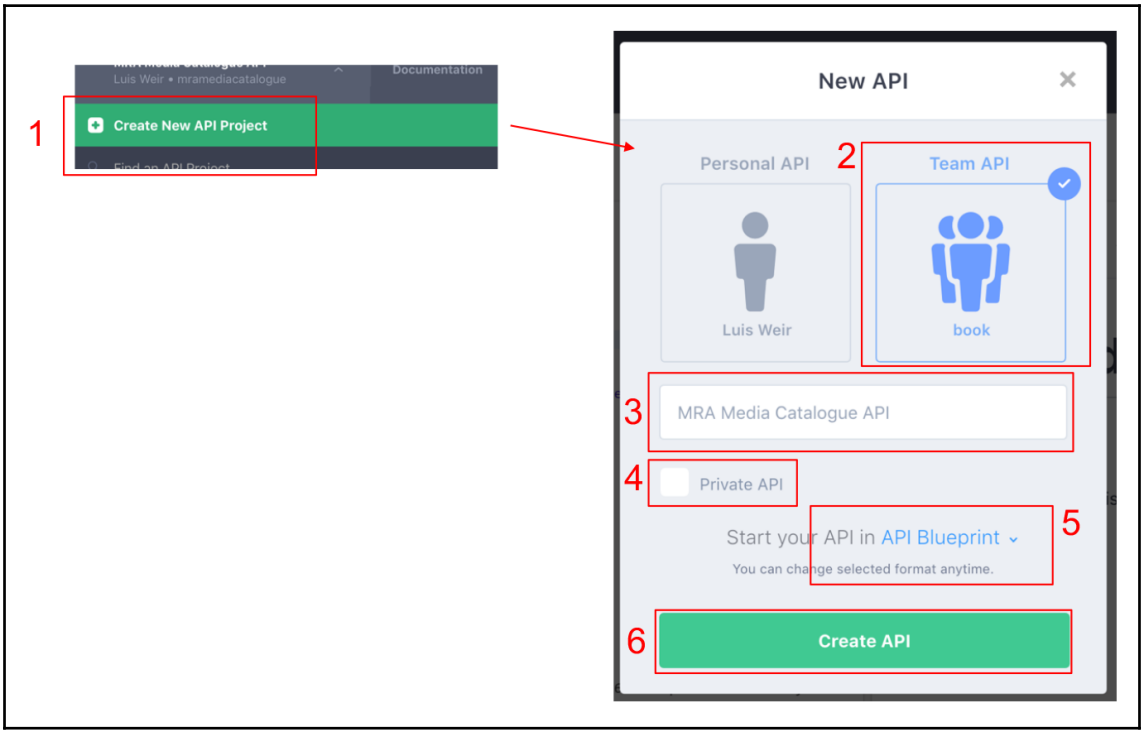



Feedback
Feedback
Design
Try
Build
Package &
Deploy
Continuous
Test
Feedback
Analyse
Run

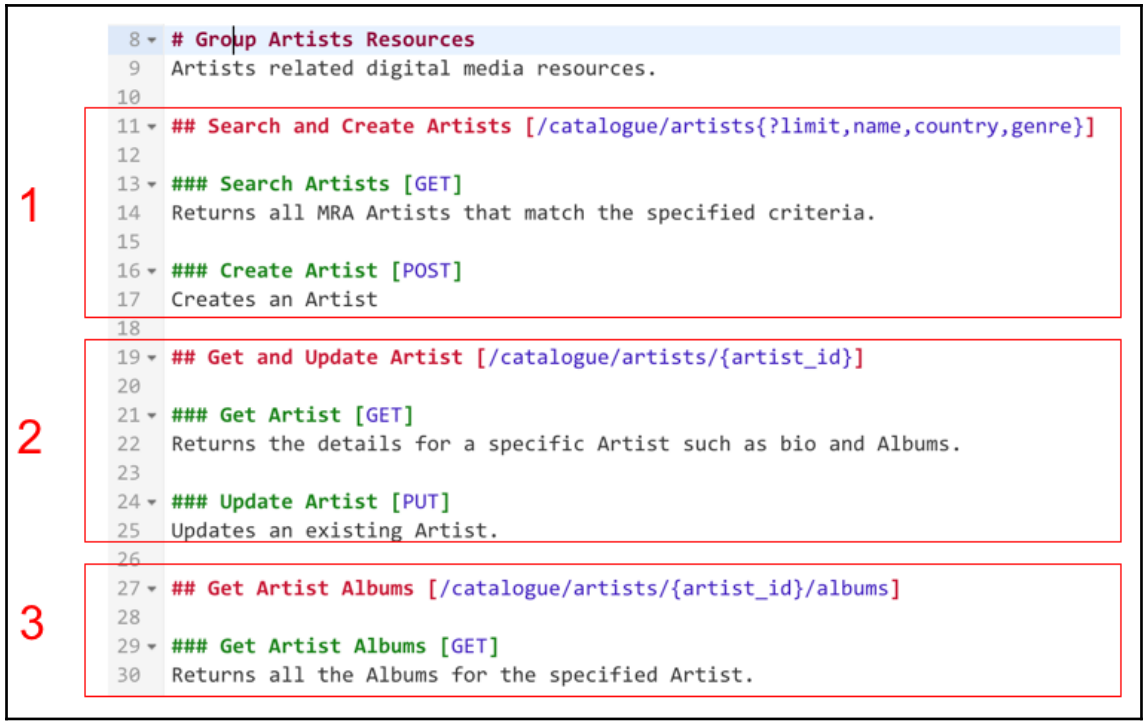

User Experience
Single Purpose API
Multi-Purpose API
Service Implementation
Persistence

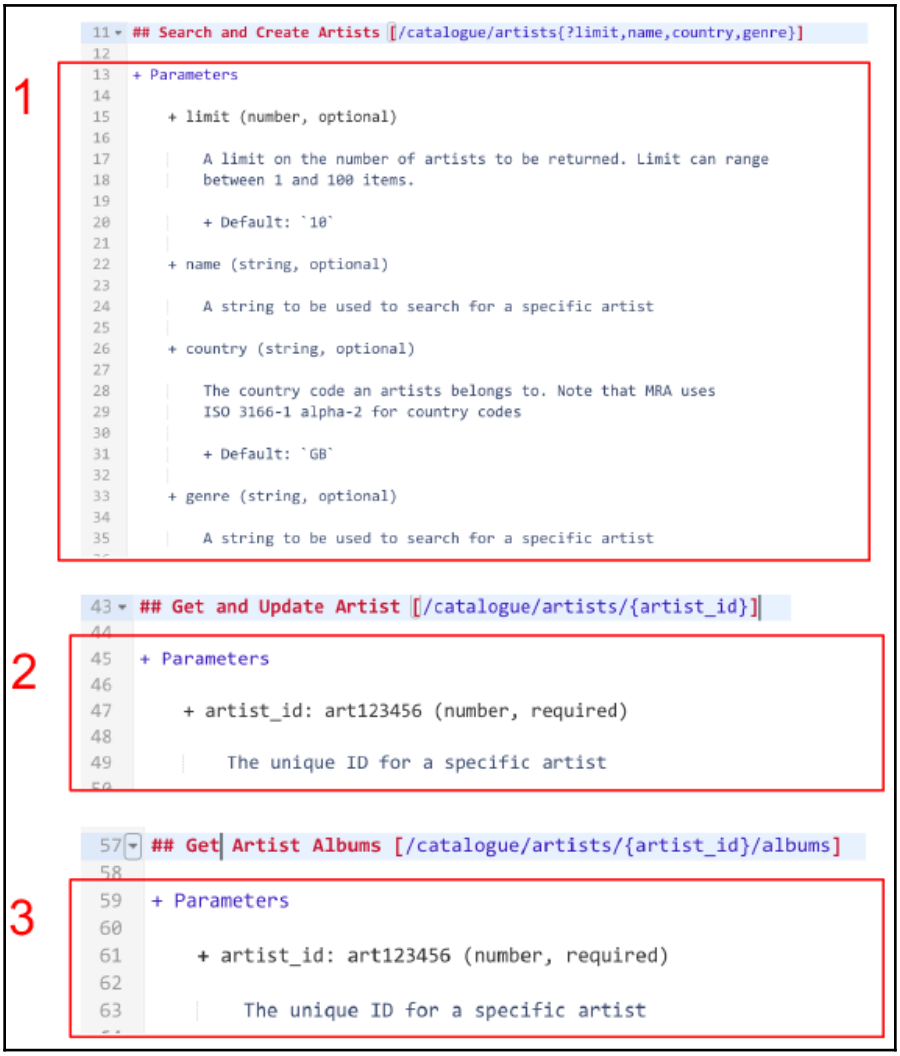

User Experience
MRA's Customer Mobile App
{
customer_details
{
"forename", "Luis",
"surname", "Weir"
},
orders {
{"order" : x},
{"order" : y}
}
}
[GET] /v1/myshop/homepage?customer=12345
Single Purpose API
Homepage API
Semi-decoupled Service
Service
[GET] /v2/orders?customer=12345&status=latest
[GET] /v1/customers/12345
Multi-Purpose API
Orders API
Accounts API
[
{"order" : x},
{"order" : y}
]
{
"forename", "Luis",
"surname", "Weir"
interests { … }
address { … }
….
}


Media Catalogue
Video Clips
Genres
Songs
Albums
Artists
Can have
Can have
Belongs to
Belongs to
Belongs to
Has many
Have one or many
Have one or many
Belongs to
Media Catalogue
Key
Entity
Attribute
1 to many
0 to many
1 to 1
0 to 1


1
Luis Weir • mramediacatalogue
Documentation
Create New API Project
New API
Personal API
2
Team API
Luis Weir
book
3
MRA Media Catalogue API
4
Private API
Start your API in API Blueprint
5
You can change selected format anytime.
6
Create API

```
FORMAT: 1A
HOST: https://api.mra.com/

# MRA Media Catalogue API
The Music Catalogue API is provides access to MRA's
digital media assets such as artits, albums and songs.

# Group Artists Resources
Artists related digital media resources.

# Group Albums Resources
Artists-related digital media resources.

# Group Songs Media
Songs and Video digital media resources.
```


1
2
3
Group Artists Resources
Artists related digital media resources.
Search and Create Artists [/catalogue/artists{?limit,name,country,genre}]
Search Artists [GET]
Returns all MRA Artists that match the specified criteria.
Create Artist [POST]
Creates an Artist
Get and Update Artist [/catalogue/artists/{artist_id}]
Get Artist [GET]
Returns the details for a specific Artist such as bio and Albums.
Update Artist [PUT]
Updates an existing Artist.
Get Artist Albums [/catalogue/artists/{artist_id}/albums]
Get Artist Albums [GET]
Returns all the Albums for the specified Artist.

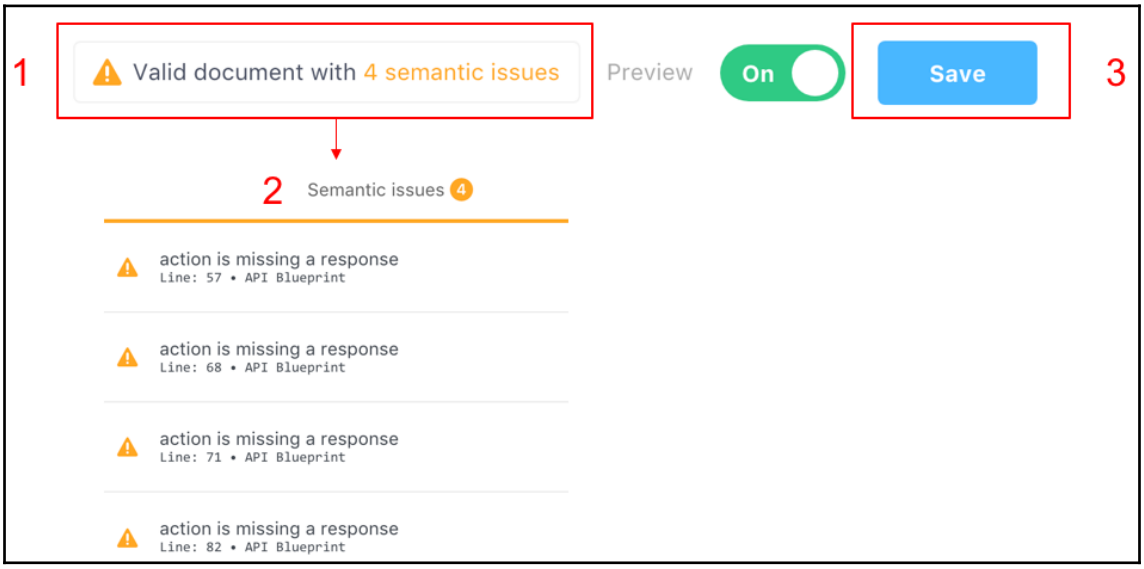

1
Search and Create Artists [/catalogue/artists{?limit,name,country,genre}]
+ Parameters
+ limit (number, optional)
A limit on the number of artists to be returned. Limit can range between 1 and 100 items.
+ Default: `10`
+ name (string, optional)
A string to be used to search for a specific artist
+ country (string, optional)
The country code an artists belongs to. Note that MRA uses ISO 3166-1 alpha-2 for country codes
+ Default: `GB`
+ genre (string, optional)
A string to be used to search for a specific artist
2
Get and Update Artist [/catalogue/artists/{artist_id}]
+ Parameters
+ artist_id: art123456 (number, required)
The unique ID for a specific artist
3
Get Artist Albums [/catalogue/artists/{artist_id}/albums]
+ Parameters
+ artist_id: art123456 (number, required)
The unique ID for a specific artist

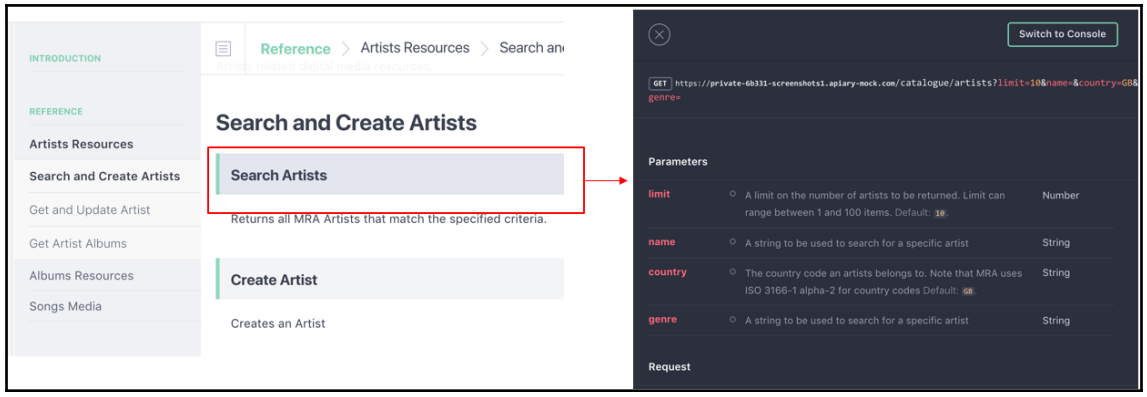
Defining Request/Responses for Search Artist

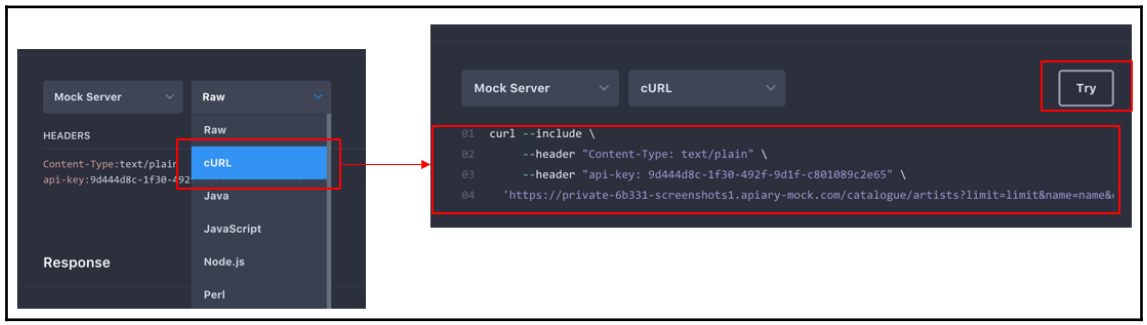
1

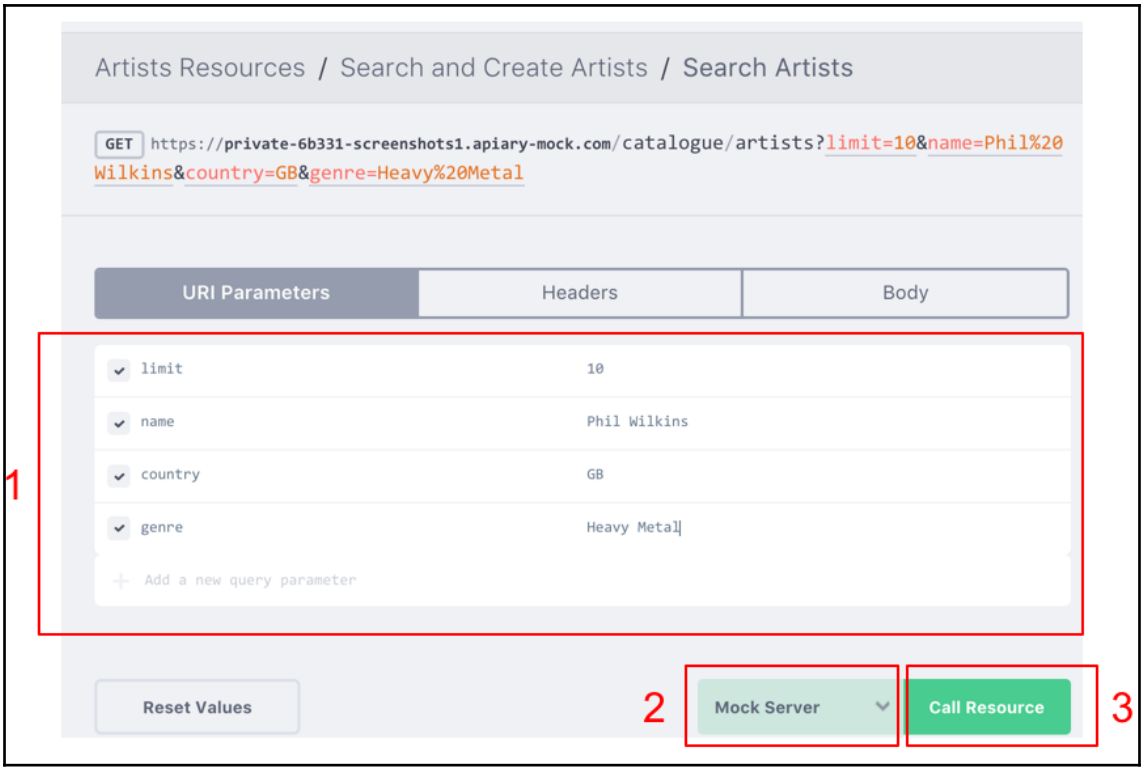
2

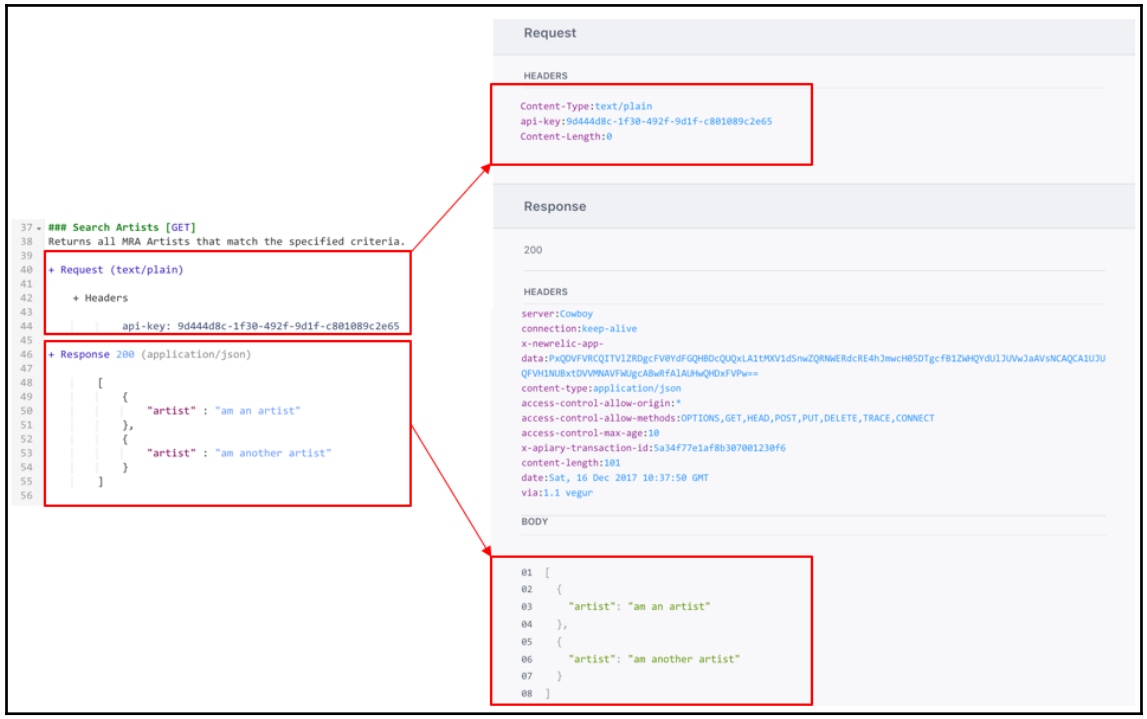
```
### Search Artists [GET]
Returns all MRA Artists that match the specified criteria.

+ Request (text/plain)

    + Headers

            api-key: 9d444d8c-1f30-492f-9d1f-c801089c2e65

+ Response 200 (application/json)

        [
            {
                "artist" : "am an artist"
            },
            {
                "artist" : "am another artist"
            }
        ]
```




INTRODUCTION
REFERENCE
Artists Resources
Search and Create Artists
Get and Update Artist
Get Artist Albums
Albums Resources
Songs Media
Reference
Artists Resources
Search and Create Artists
Search Artists
Returns all MRA Artists that match the specified criteria.
Create Artist
Creates an Artist
Switch to Console
GET https://private-6b331-screenshots1.apiary-mock.com/catalogue/artists?limit=10&name=&country=GB&genre=
Parameters
limit
A limit on the number of artists to be returned. Limit can range between 1 and 100 items. Default: 10.
Number
name
A string to be used to search for a specific artist
String
country
The country code an artists belongs to. Note that MRA uses ISO 3166-1 alpha-2 for country codes Default: GB.
String
genre
A string to be used to search for a specific artist
String
Request

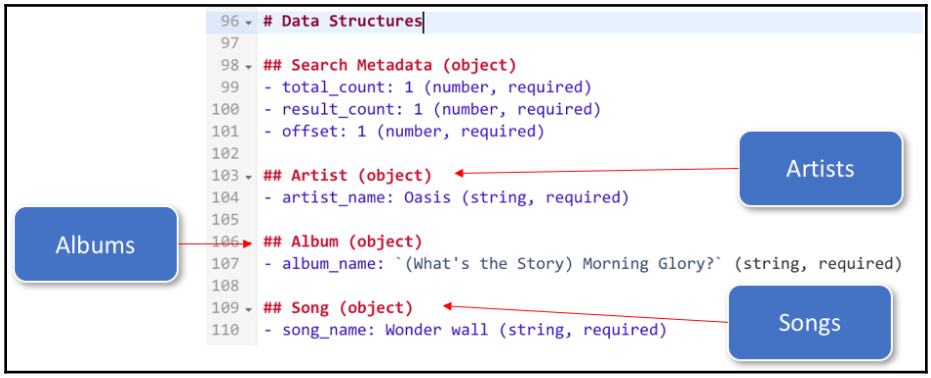

Mock Server
Raw
HEADERS
Content-Type:text/plain
api-key:9d444d8c-1f30-492
Raw
cURL
Java
JavaScript
Node.js
Perl
Response
Mock Server
cURL
Try
curl --include \
--header "Content-Type: text/plain" \
--header "api-key: 9d444d8c-1f30-492f-9d1f-c801089c2e65" \
'https://private-6b331-screenshots1.apiary-mock.com/catalogue/artists?limit=limit&name=name&

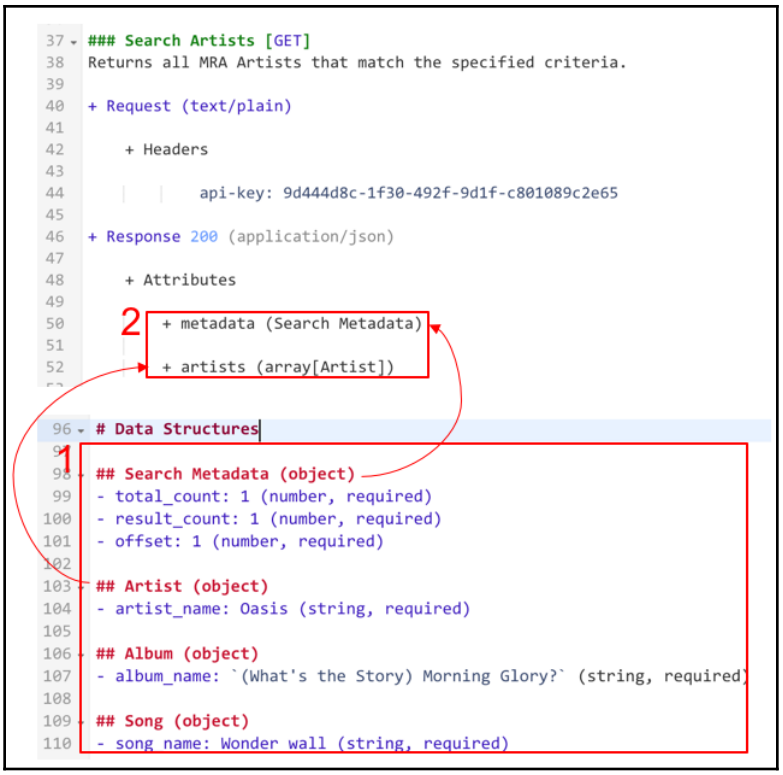

Artists Resources / Search and Create Artists / Search Artists
GET https://private-6b331-screenshots1.apiary-mock.com/catalogue/artists?limit=10&name=Phil%20Wilkins&country=GB&genre=Heavy%20Metal
URI Parameters
Headers
Body
limit
10
name
Phil Wilkins
country
GB
genre
Heavy Metal
Add a new query parameter
1
Reset Values
2
Mock Server
Call Resource
3


Search Artists [GET]
Returns all MRA Artists that match the specified criteria.
+ Request (text/plain)
+ Headers
api-key: 9d444d8c-1f30-492f-9d1f-c801089c2e65
+ Response 200 (application/json)
[
{
"artist" : "am an artist"
},
{
"artist" : "am another artist"
}
]
Request
HEADERS
Content-Type:text/plain
api-key:9d444d8c-1f30-492f-9d1f-c801089c2e65
Content-Length:0
Response
200
HEADERS
server:Cowboy
connection:keep-alive
x-newrelic-app-
data:PxQDVFVRCQITVlZRDgcFV0YdFGQHBDcQUQxLA1tMXV1dSnwZQRNWERdcRE4hJmwcH05DTgcfB1ZWHQYdUlJUVwJaAVsNCAQCA1UJU
QFVH1NUBxtDVVMNAVFWUgcABwRfAlAUHwQHDxFVPw==
content-type:application/json
access-control-allow-origin:*
access-control-allow-methods:OPTIONS,GET,HEAD,POST,PUT,DELETE,TRACE,CONNECT
access-control-max-age:10
x-apiary-transaction-id:5a34f77e1af8b307001230f6
content-length:101
date:Sat, 16 Dec 2017 10:37:50 GMT
via:1.1 vegur
BODY
[
{
"artist": "am an artist"
},
{
"artist": "am another artist"
}
]

Documentation
Inspector
Editor
Tests
People
Settings
Resource
Method
Status
Source
Time
/catalogue/artists?limit=10&name=Phil%20Wilkins&country=GB&genre=Hea...
GET
200
54.166.87.177
a few seconds ago

.


Albums
Artists
Songs


1
2

```
### Search Artists [GET]
Returns all MRA Artists that match the specified criteria.

+ Request (text/plain)

    + Headers

            api-key: 9d444d8c-1f30-492f-9d1f-c801089c2e65

+ Response 200 (application/json)

    + Attributes

        + metadata (Search Metadata)

        + artists (array[Artist])
```

BODY — SHOW JSON SCHEMA

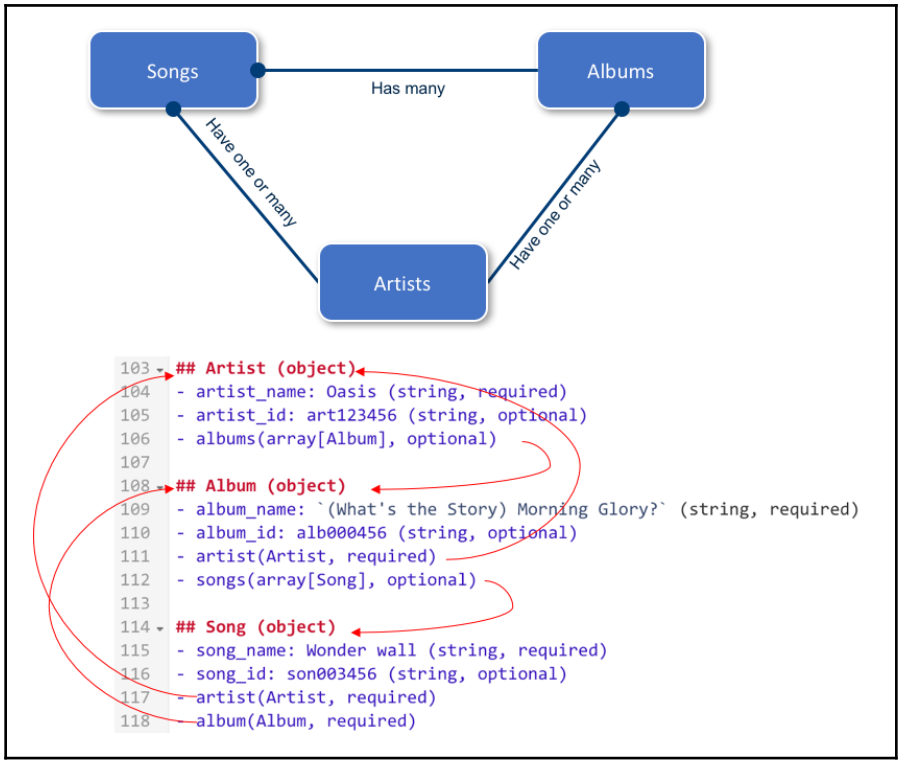
```
{
  "metadata": {
    "total_count": 1,
    "result_count": 1,
    "offset": 1
  },
  "artists": [
    {
      "artist_name": "Oasis"
    }
  ]
}
```

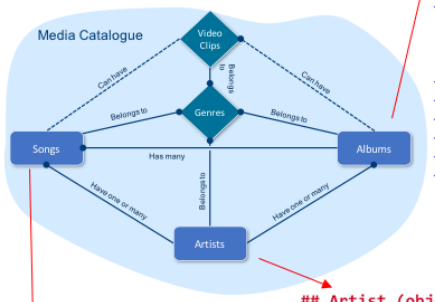
BODY — SHOW JSON SCHEMA

```
{
  "metadata": {
    "total_count": 1,
    "result_count": 1,
    "offset": 1
  },
  "artists": [
    {
      "artist_name": "Oasis"
    }
  ]
}
```

JSON SCHEMA

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "properties": {
    "metadata": {
      "type": "object",
      "properties": {
        "total_count": {
          "type": "number"
        },
        "result_count": {
          "type": "number"
        },
        "offset": {
          "type": "number"
        }
      },
      "required": [
        "total_count",
        "result_count",
        "offset"
      ]
    },
    "artists": {
      "type": "array"
    }
  }
}
```


Songs
Has many
Albums
Have one or many
Have one or many
Artists
Artist (object)
- artist_name: Oasis (string, required)
- artist_id: art123456 (string, optional)
- albums(array[Album], optional)
Album (object)
- album_name: `(What's the Story) Morning Glory?` (string, required)
- album_id: alb000456 (string, optional)
- artist(Artist, required)
- songs(array[Song], optional)
Song (object)
- song_name: Wonder wall (string, required)
- song_id: son003456 (string, optional)
- artist(Artist, required)
- album(Album, required)



Album (object)
- album_name: `(What's the Story) Morning Glory?` (string, required)
- album_id: alb000456 (string, optional)
- upc: 074646735121 (string, optional)

  Universal Product Code

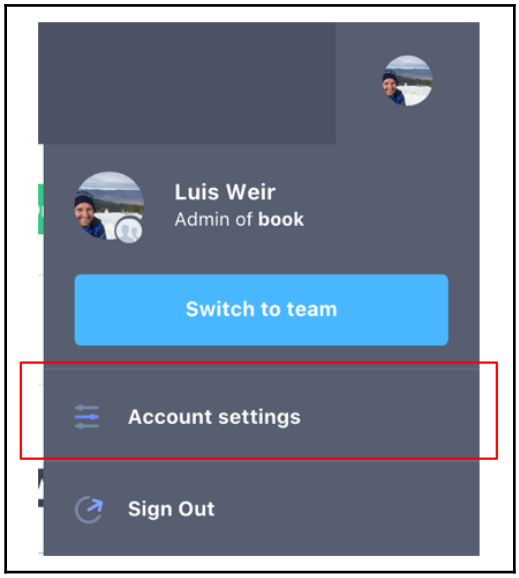
- release_date: 1995-10-02 (string, optional)
- song_count: 12 (number, required)
- length_seconds: 3006 (number, optional)
- artist(Artist, required)
- songs(array[Song], optional)
- _links (optional)
  - self
    - href: /v1/catalogue/albums/alb000456 (string, required)

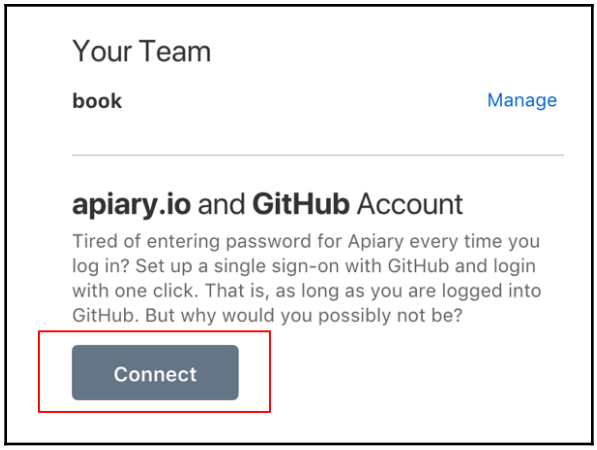
Artist (object)
- artist_name: Oasis (string, required)
- artist_id: art123456 (string, optional)
- country: UK (string, optional)
- bio: Oasis is a great band from Manchester (string, optional)
- albums(array[Album], optional)
- _links (optional)
  - self
    - href: /v1/catalogue/artists/art12345 (string, required)
  - albums
    - href: /v1/catalogue/artists/art12345/albums (string, optional)
  - genres
    - href: /v1/catalogue/artists/art12345/genres (string, optional)

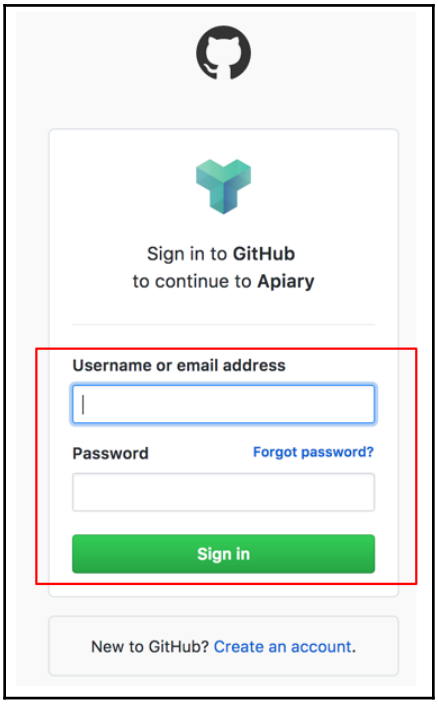
Song (object)
- song_name: Wonder wall (string, required)
- song_id: son003456 (string, optional)
- isrc: GBAAW9500189 (string, optional)

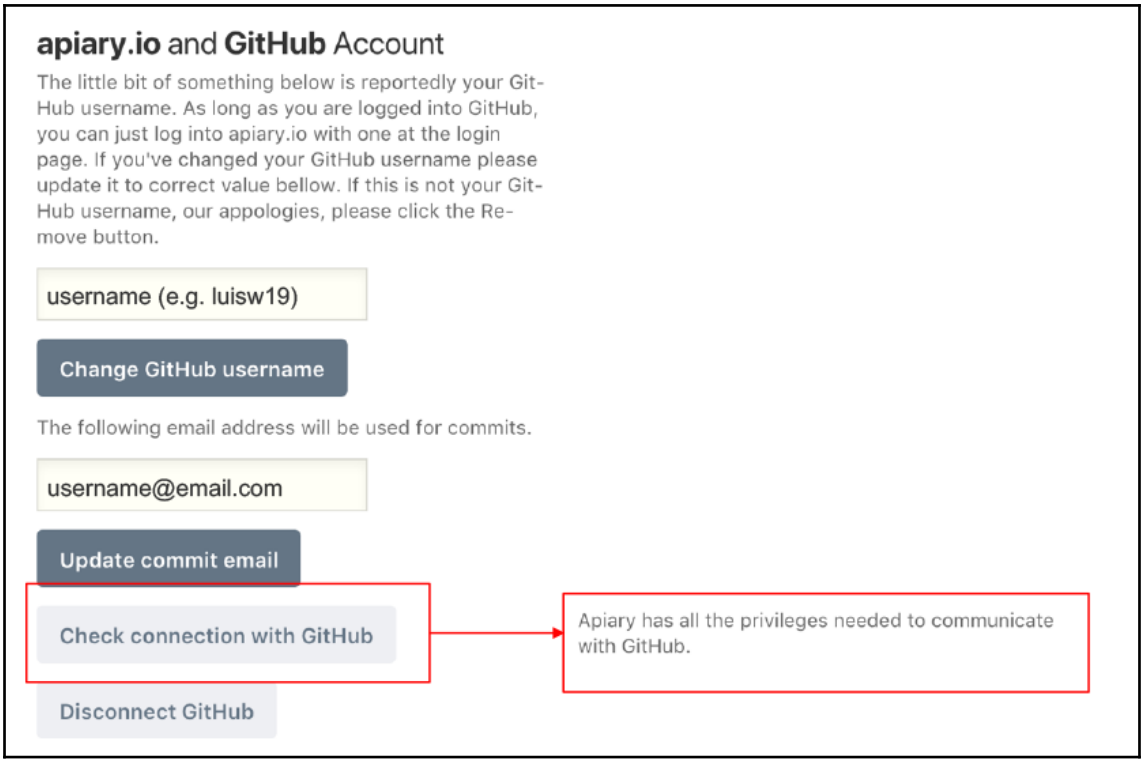
  International Standard Recording Code

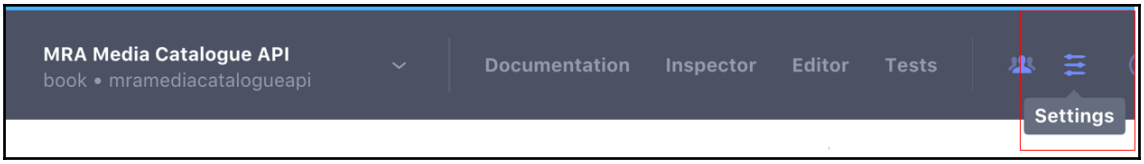
- release_date: 1995-10-02 (string, optional)
- artist(Artist, required)
- album(Album, required)
- _links (optional)
  - self
    - href: /v1/catalogue/songs/son003456 (string, required)
  - audio
    - format: mp3 (string, optional)
    - lenght_seconds: 259 (number, optional)
    - href: /v1/catalogue/songs/son003456/audio?format=mp3 (string, optional)
  - video
    - format: mp4 (string, optional)
    - lenght_seconds: 279 (number, optional)
    - href: /v1/catalogue/songs/son003456/audio?format=mp4 (string, optional)
  - lyrics
    - href: /v1/catalogue/songs/son003456/lyrics (string, optional)

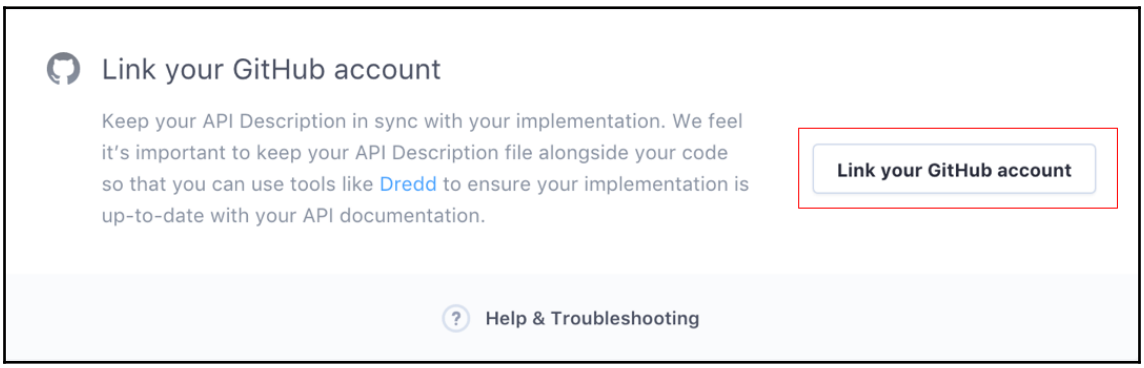

Luis Weir
Admin of book
Switch to team
Account settings
Sign Out

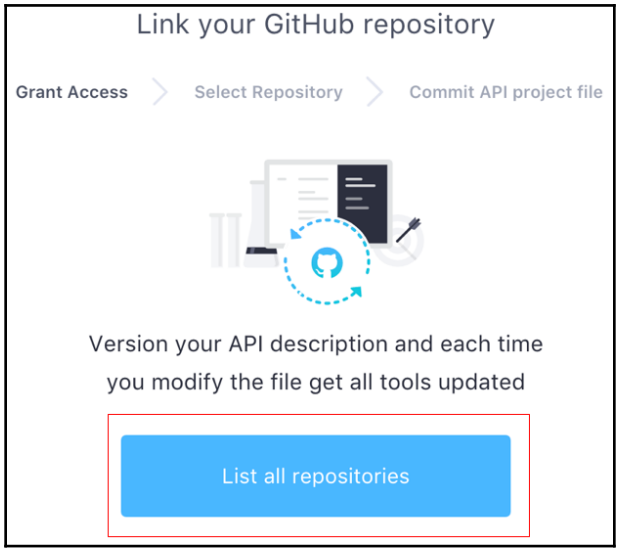

Your Team
book
Manage
apiary.io and GitHub Account
Tired of entering password for Apiary every time you log in? Set up a single sign-on with GitHub and login with one click. That is, as long as you are logged into GitHub. But why would you possibly not be?
Connect

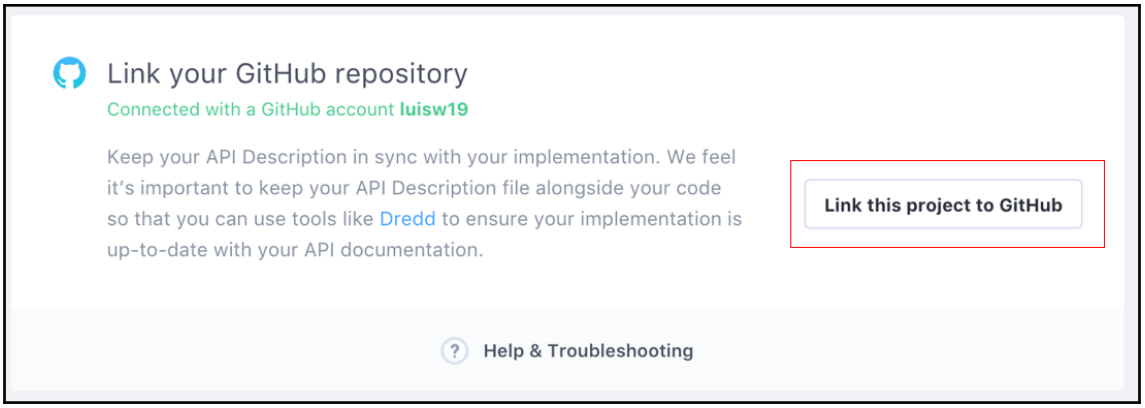

Sign in to GitHub
to continue to Apiary
Username or email address
Password
Forgot password?
Sign in
New to GitHub? Create an account.

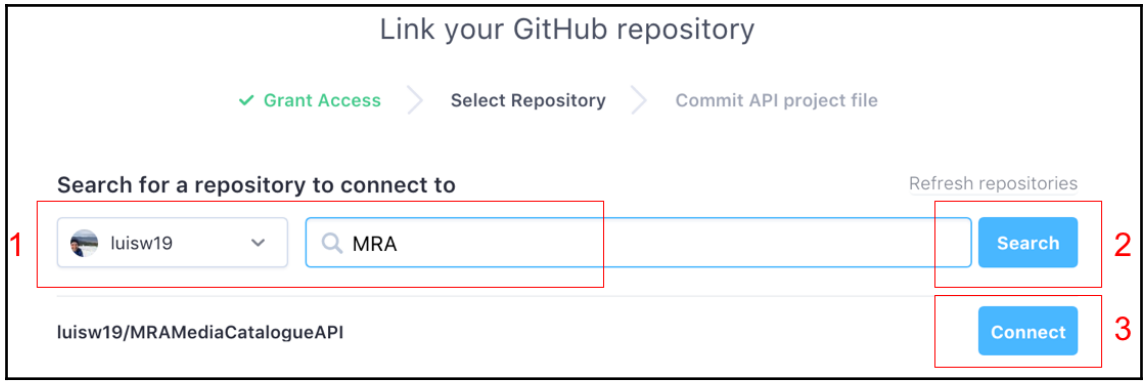

apiary.io and GitHub Account
The little bit of something below is reportedly your GitHub username. As long as you are logged into GitHub, you can just log into apiary.io with one at the login page. If you've changed your GitHub username please update it to correct value bellow. If this is not your GitHub username, our appologies, please click the Remove button.
username (e.g. luisw19)
Change GitHub username
The following email address will be used for commits.
username@email.com
Update commit email
Check connection with GitHub
Apiary has all the privileges needed to communicate with GitHub.
Disconnect GitHub

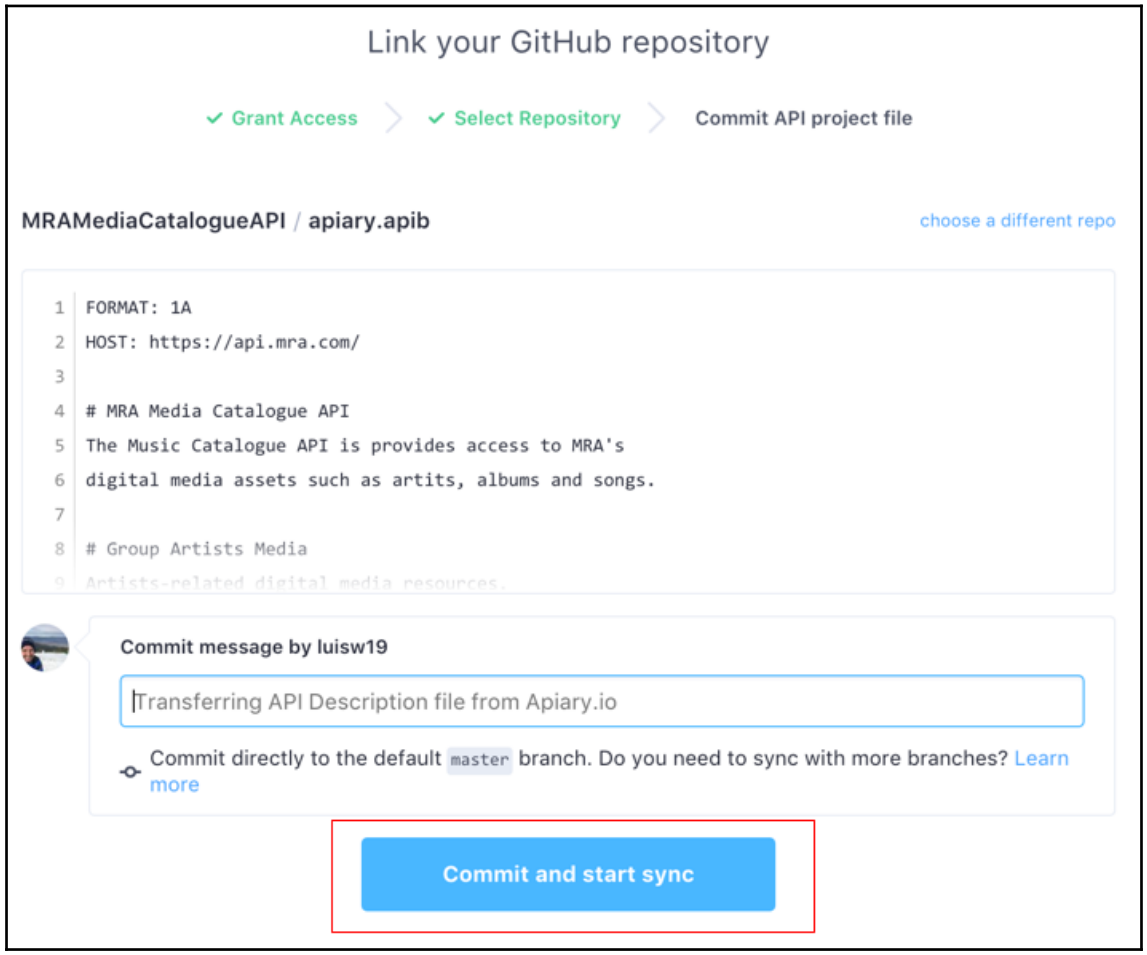

MRA Media Catalogue API
book • mramediacatalogueapi
Documentation
Inspector
Editor
Tests
Settings

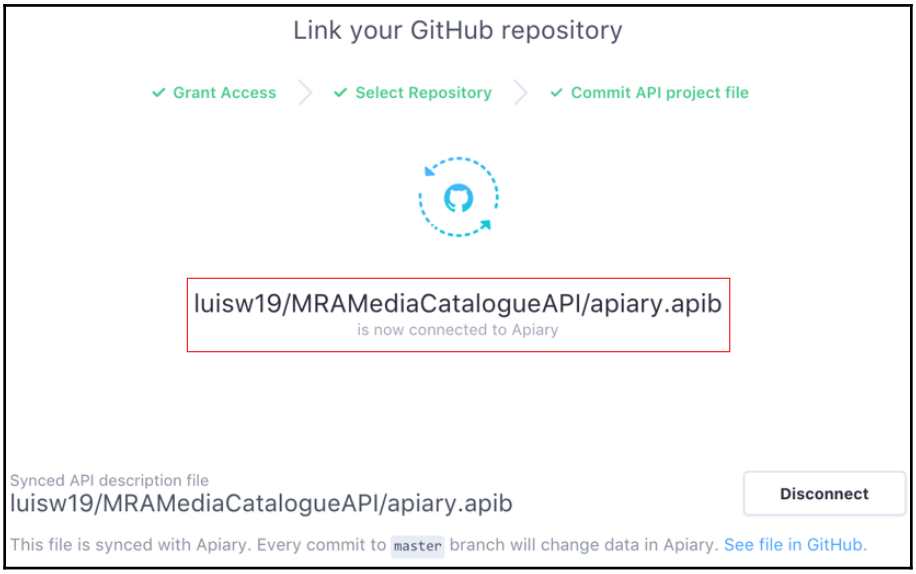

Link your GitHub account
Keep your API Description in sync with your implementation. We feel it's important to keep your API Description file alongside your code so that you can use tools like Dredd to ensure your implementation is up-to-date with your API documentation.
Link your GitHub account
Help & Troubleshooting


Link your GitHub repository
Grant Access
Select Repository
Commit API project file
Version your API description and each time
you modify the file get all tools updated
List all repositories

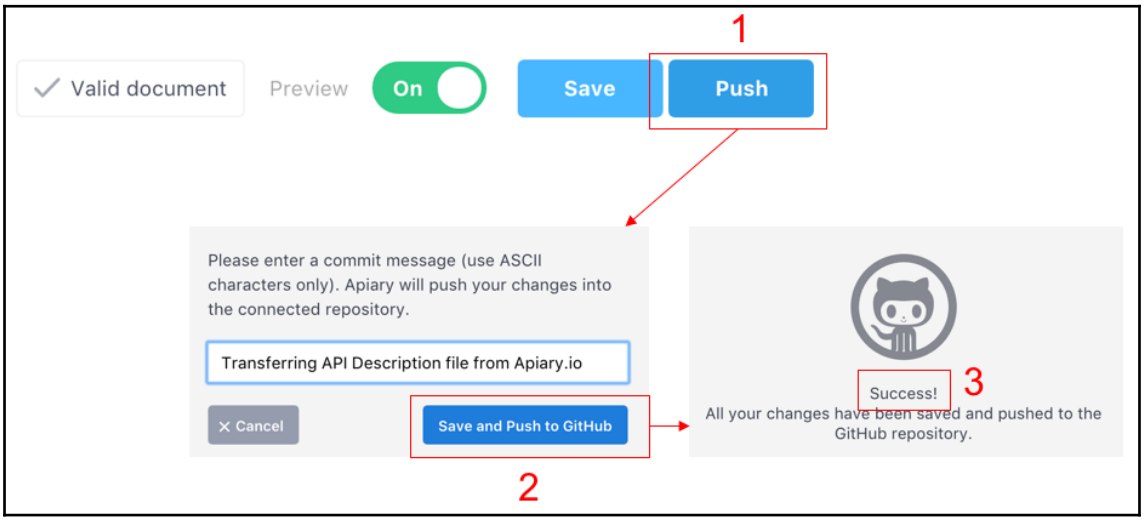

Link your GitHub repository
Connected with a GitHub account luisw19
Keep your API Description in sync with your implementation. We feel it's important to keep your API Description file alongside your code so that you can use tools like Dredd to ensure your implementation is up-to-date with your API documentation.
Link this project to GitHub
Help & Troubleshooting

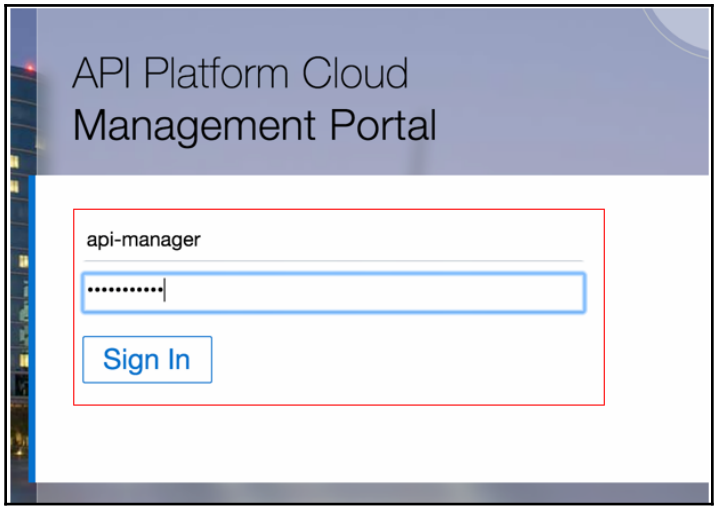

Link your GitHub repository
Grant Access
Select Repository
Commit API project file
Search for a repository to connect to
Refresh repositories
1
luisw19
MRA
Search
2
luisw19/MRAMediaCatalogueAPI
Connect
3

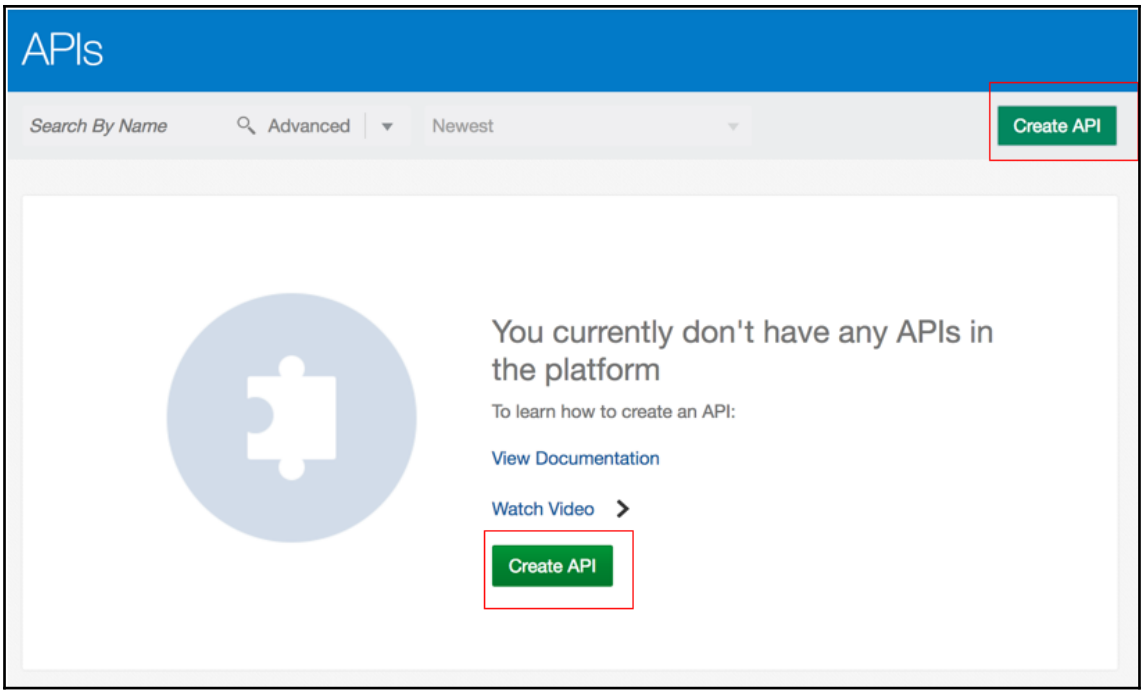

Link your GitHub repository
Grant Access
Select Repository
Commit API project file
MRAMediaCatalogueAPI / apiary.apib
choose a different repo
1 FORMAT: 1A
2 HOST: https://api.mra.com/
3
4 # MRA Media Catalogue API
5 The Music Catalogue API is provides access to MRA's
6 digital media assets such as artits, albums and songs.
7
8 # Group Artists Media
Commit message by luisw19
Transferring API Description file from Apiary.io
Commit directly to the default master branch. Do you need to sync with more branches? Learn more
Commit and start sync

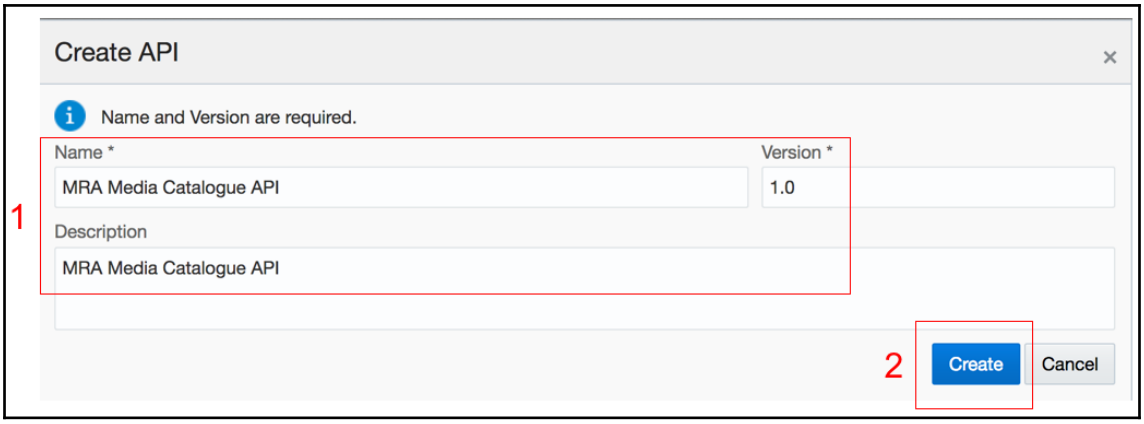

Link your GitHub repository
Grant Access
Select Repository
Commit API project file
luisw19/MRAMediaCatalogueAPI/apiary.apib
is now connected to Apiary
Synced API description file
luisw19/MRAMediaCatalogueAPI/apiary.apib
Disconnect
This file is synced with Apiary. Every commit to master branch will change data in Apiary. See file in GitHub.

Documentation
Inspector
Editor
Tests

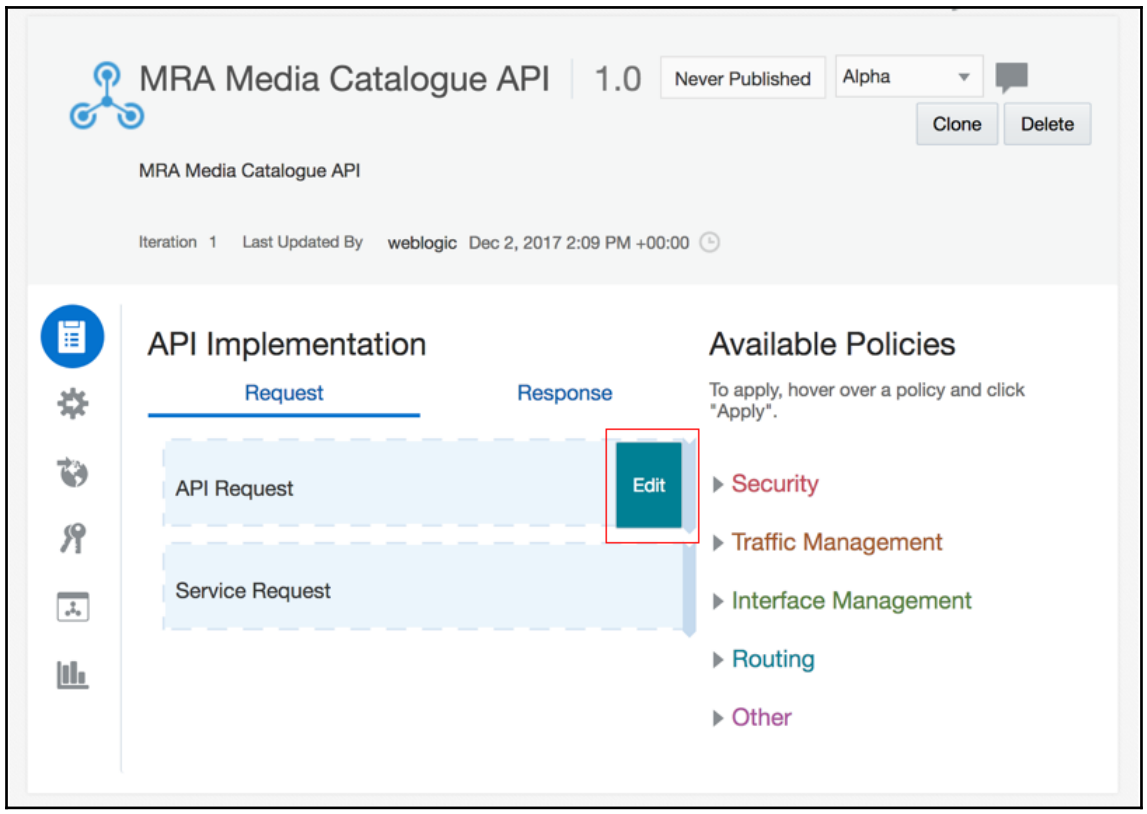

1
Valid document
Preview
On
Save
Push
Please enter a commit message (use ASCII characters only). Apiary will push your changes into the connected repository.
Transferring API Description file from Apiary.io
Cancel
Save and Push to GitHub
2
Success!
3
All your changes have been saved and pushed to the GitHub repository.

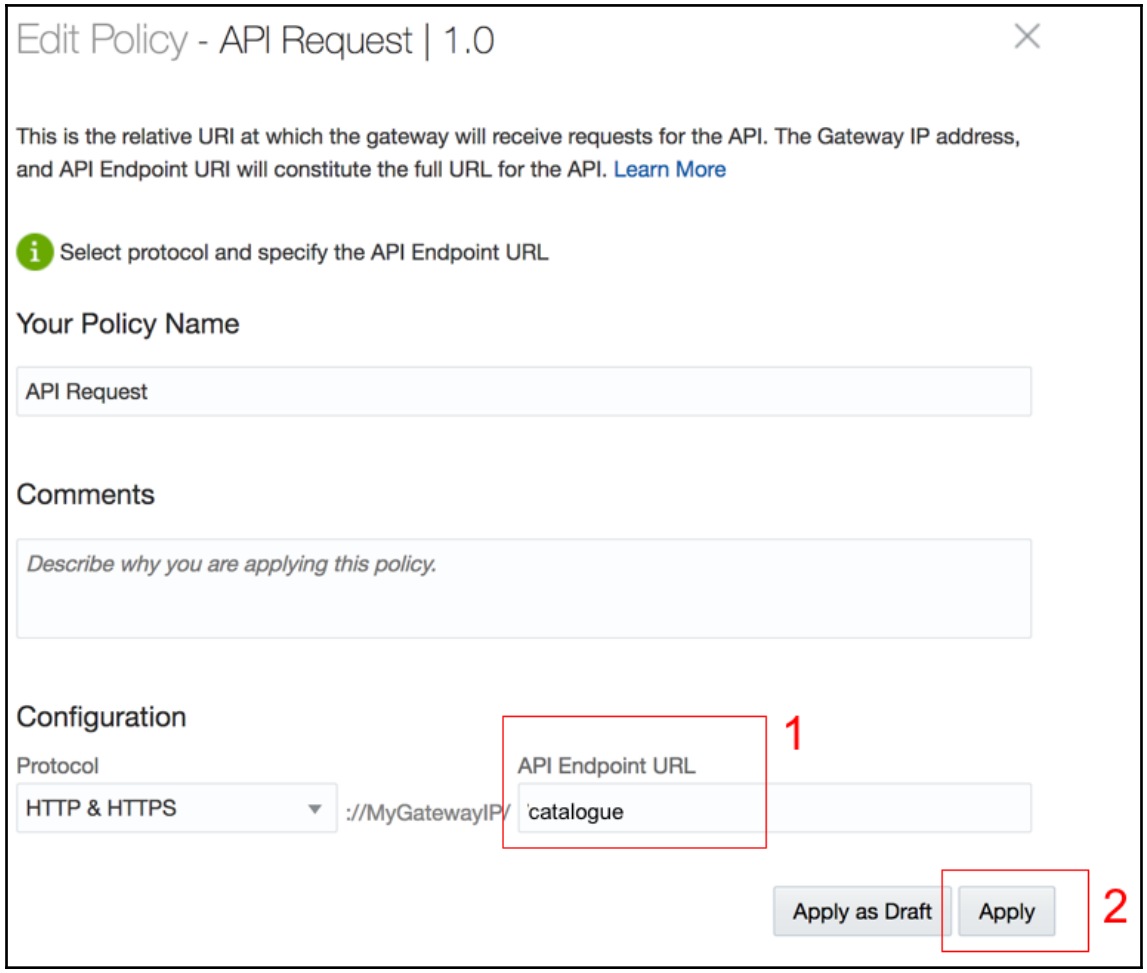

API Platform Cloud
Management Portal
api-manager
Sign In

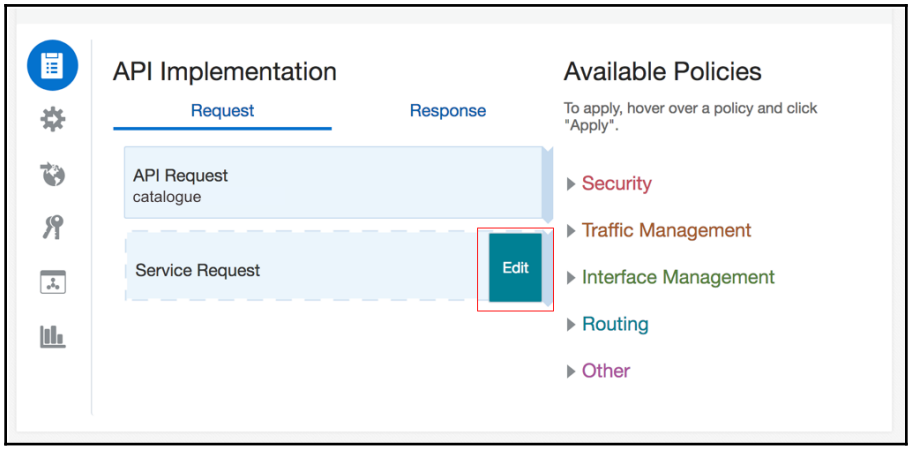

APIs
Search By Name
Advanced
Newest
Create API
You currently don't have any APIs in the platform
To learn how to create an API:
View Documentation
Watch Video
Create API

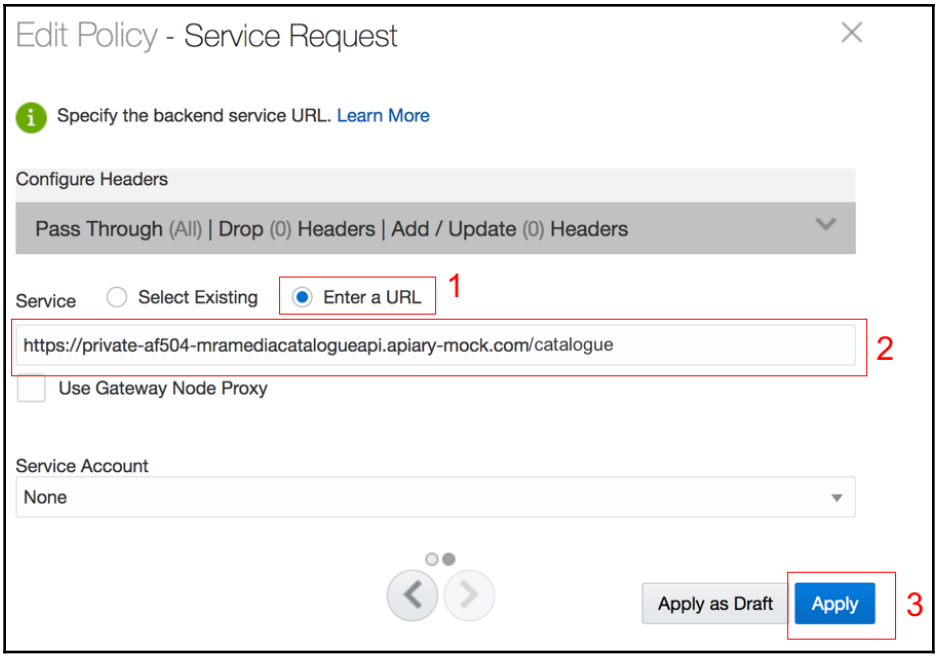

Create API
Name and Version are required.
Name *
MRA Media Catalogue API
Version *
1.0
Description
MRA Media Catalogue API
1
2
Create
Cancel

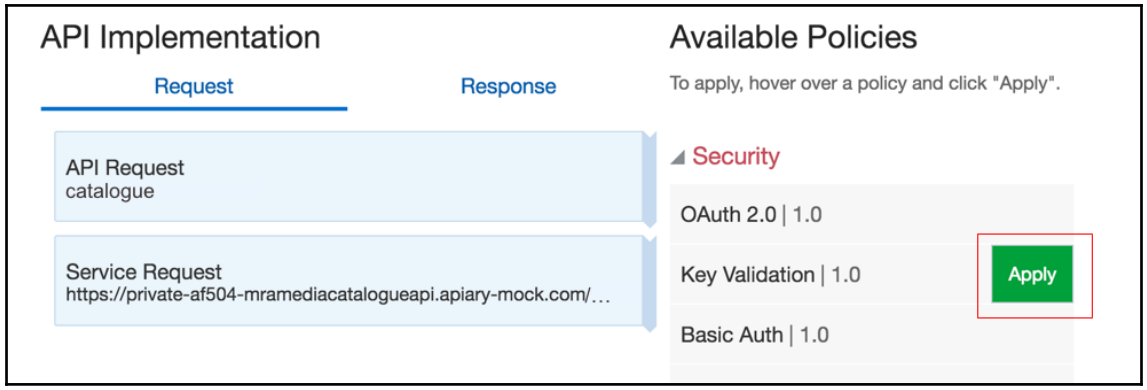
MRA Media Catalogue API
1.0
Alpha
Description
MRA Media Catalogue API

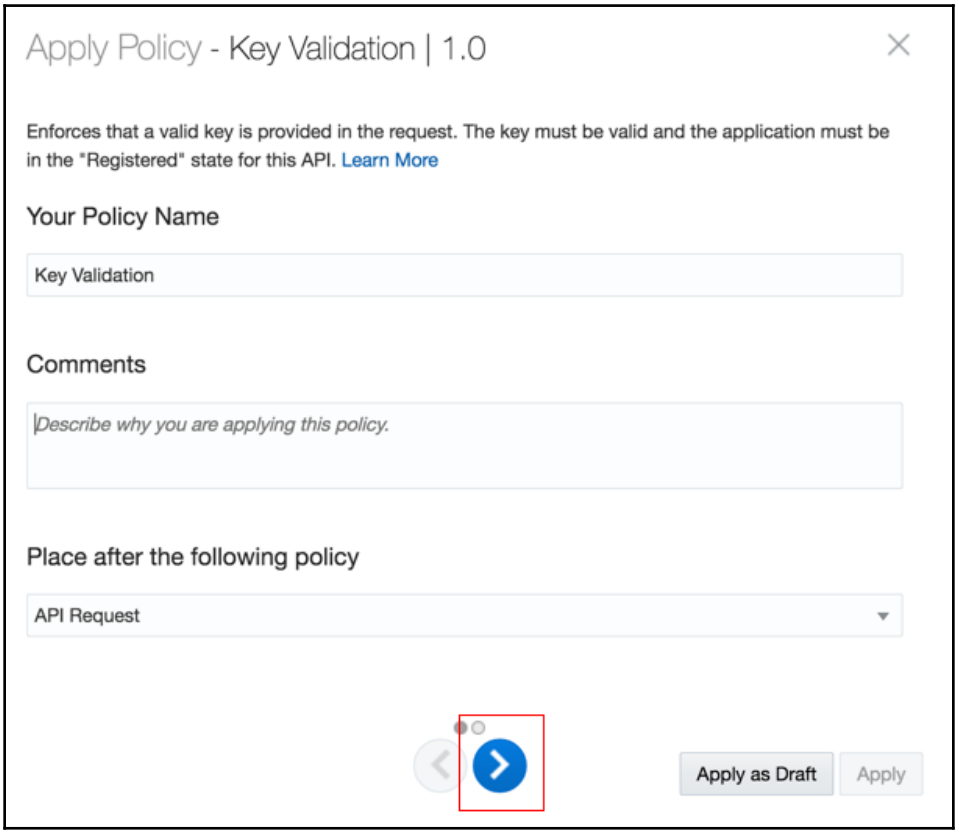

MRA Media Catalogue API
1.0
Never Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 1
Last Updated By
weblogic
Dec 2, 2017 2:09 PM +00:00
API Implementation
Request
Response
API Request
Edit
Service Request
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other

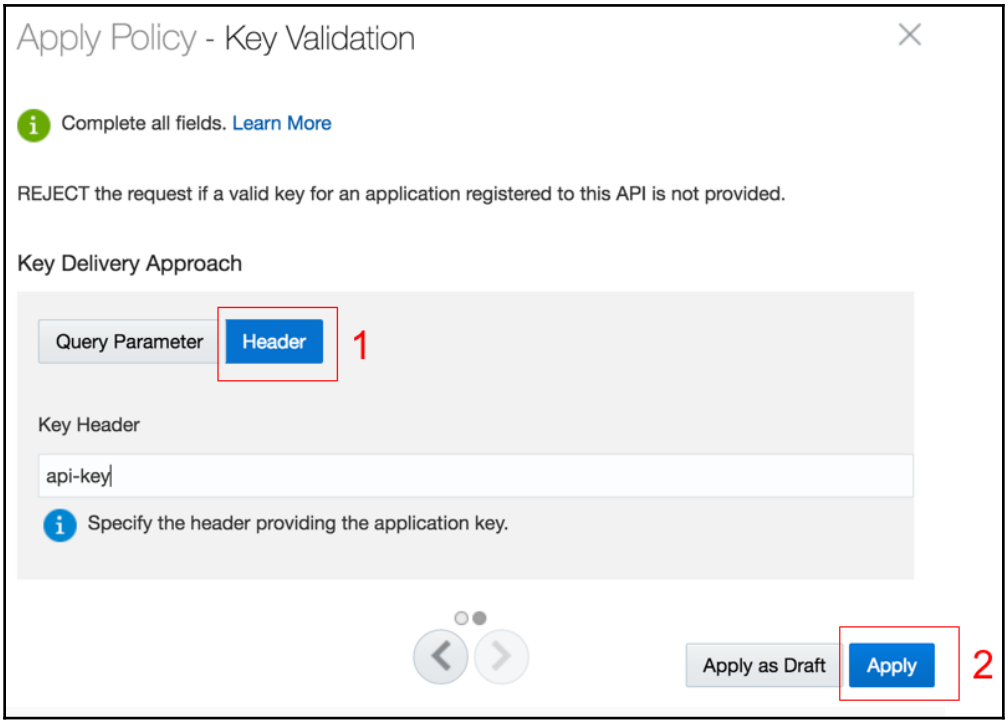

Edit Policy - API Request | 1.0
This is the relative URI at which the gateway will receive requests for the API. The Gateway IP address, and API Endpoint URI will constitute the full URL for the API. Learn More
Select protocol and specify the API Endpoint URL
Your Policy Name
API Request
Comments
Describe why you are applying this policy.
Configuration
Protocol
HTTP & HTTPS
://MyGatewayIP/
API Endpoint URL
catalogue
1
Apply as Draft
Apply
2

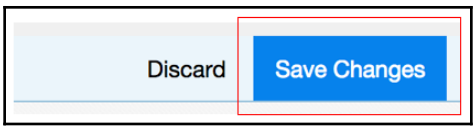

API Implementation
Request
Response
API Request
catalogue
Service Request
Edit
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other

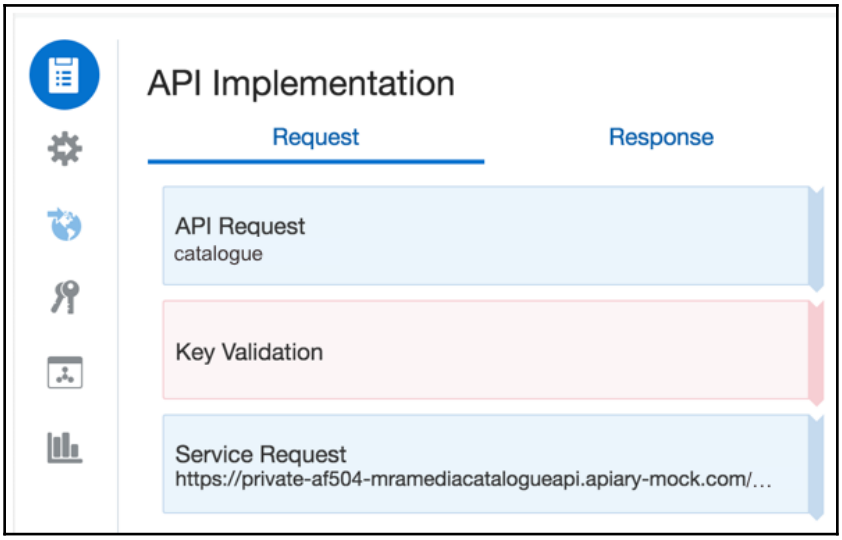

Edit Policy - Service Request
Specify the backend service URL. Learn More
Configure Headers
Pass Through (All) | Drop (0) Headers | Add / Update (0) Headers
Service
Select Existing
Enter a URL
1
https://private-af504-mramediacatalogueapi.apiary-mock.com/catalogue
2
Use Gateway Node Proxy
Service Account
None
Apply as Draft
Apply
3

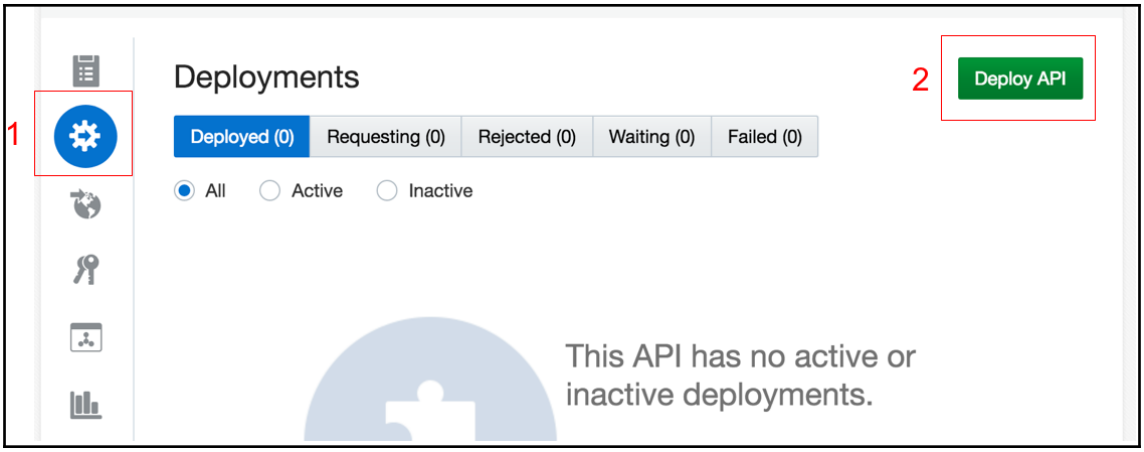

API Implementation
Request
Response
API Request
catalogue
Service Request
https://private-af504-mramediacatalogueapi.apiary-mock.com/...
Available Policies
To apply, hover over a policy and click "Apply".
Security
OAuth 2.0 | 1.0
Key Validation | 1.0
Apply
Basic Auth | 1.0

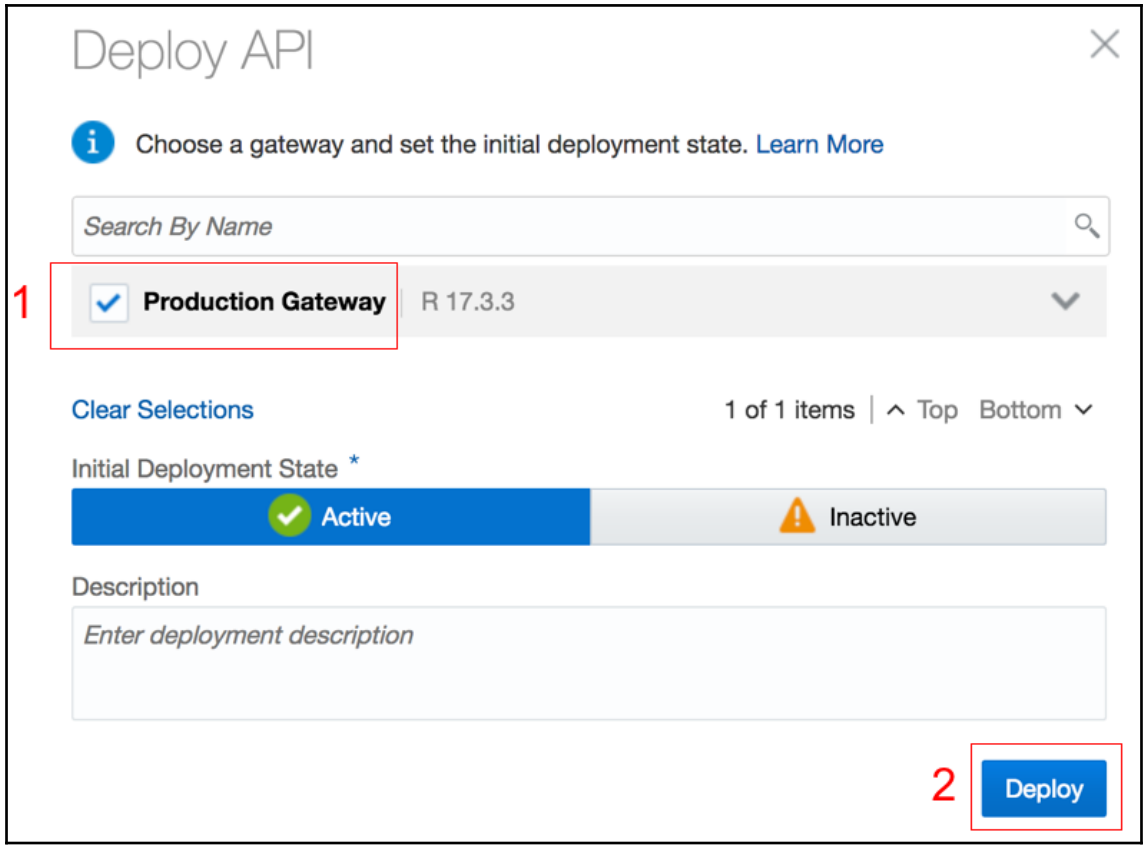

Apply Policy - Key Validation | 1.0
Enforces that a valid key is provided in the request. The key must be valid and the application must be in the "Registered" state for this API. Learn More
Your Policy Name
Key Validation
Comments
Describe why you are applying this policy.
Place after the following policy
API Request
Apply as Draft
Apply


Apply Policy - Key Validation
Complete all fields. Learn More
REJECT the request if a valid key for an application registered to this API is not provided.
Key Delivery Approach
Query Parameter
Header
1
Key Header
api-key
Specify the header providing the application key.
Apply as Draft
Apply
2

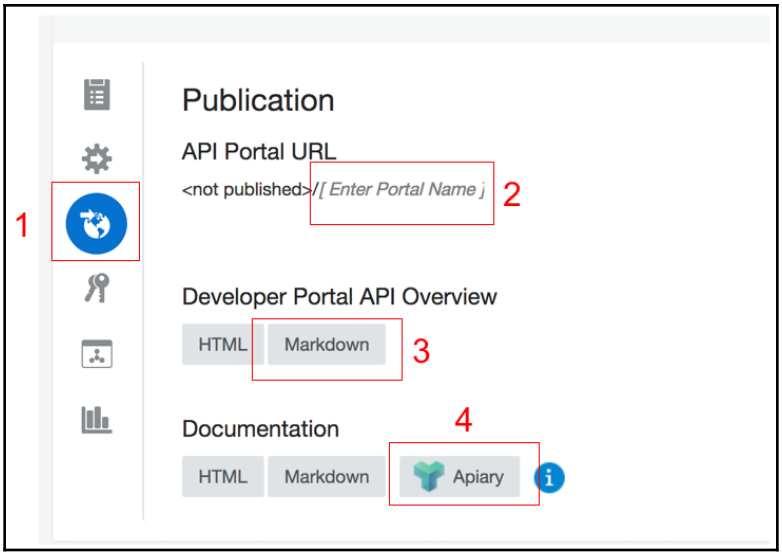

Discard
Save Changes

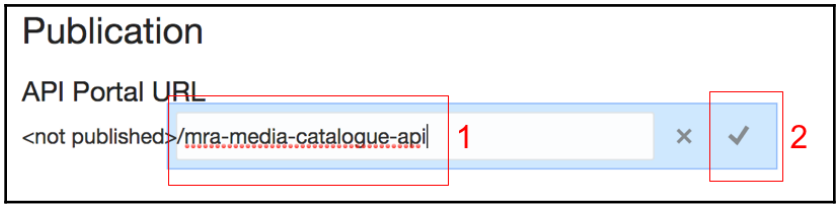

API Implementation
Request
Response
API Request
catalogue
Key Validation
Service Request
https://private-af504-mramediacatalogueapi.apiary-mock.com/...

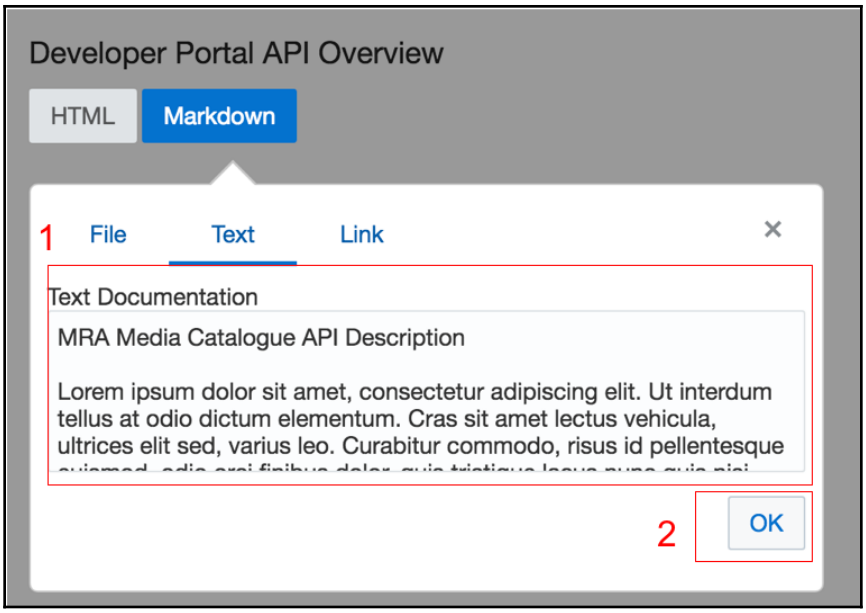

1
Deployments
2
Deploy API
Deployed (0)
Requesting (0)
Rejected (0)
Waiting (0)
Failed (0)
All
Active
Inactive
This API has no active or
inactive deployments.

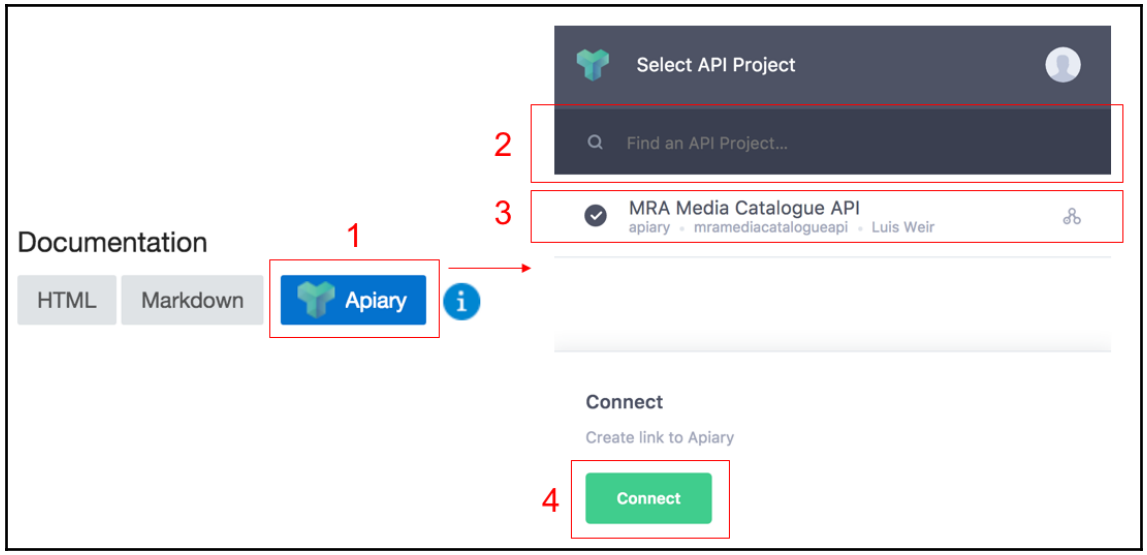

Deploy API
Choose a gateway and set the initial deployment state. Learn More
Search By Name
1
Production Gateway
R 17.3.3
Clear Selections
1 of 1 items
Top
Bottom
Initial Deployment State *
Active
Inactive
Description
Enter deployment description
2
Deploy

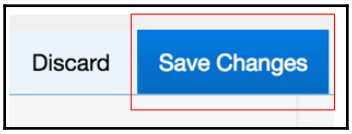
Deployments
Deploy API
Deployed (1)
Requesting (0)
Rejected (0)
Waiting (0)
Failed (0)
All
Active
Inactive
Production Gateway
Load Balancer URL
http://oc-144-21-66-168.compute.oraclecloud.com:8001/catalogue
https://oc-144-21-66-168.compute.oraclecloud.com:7002/catalogue
Iteration 2 , weblogic Dec 2, 2017 2:27 PM +00:00
ID: 133
Action: DEPLOY
Runtime State: ACTIVE
1 Node(s): 1

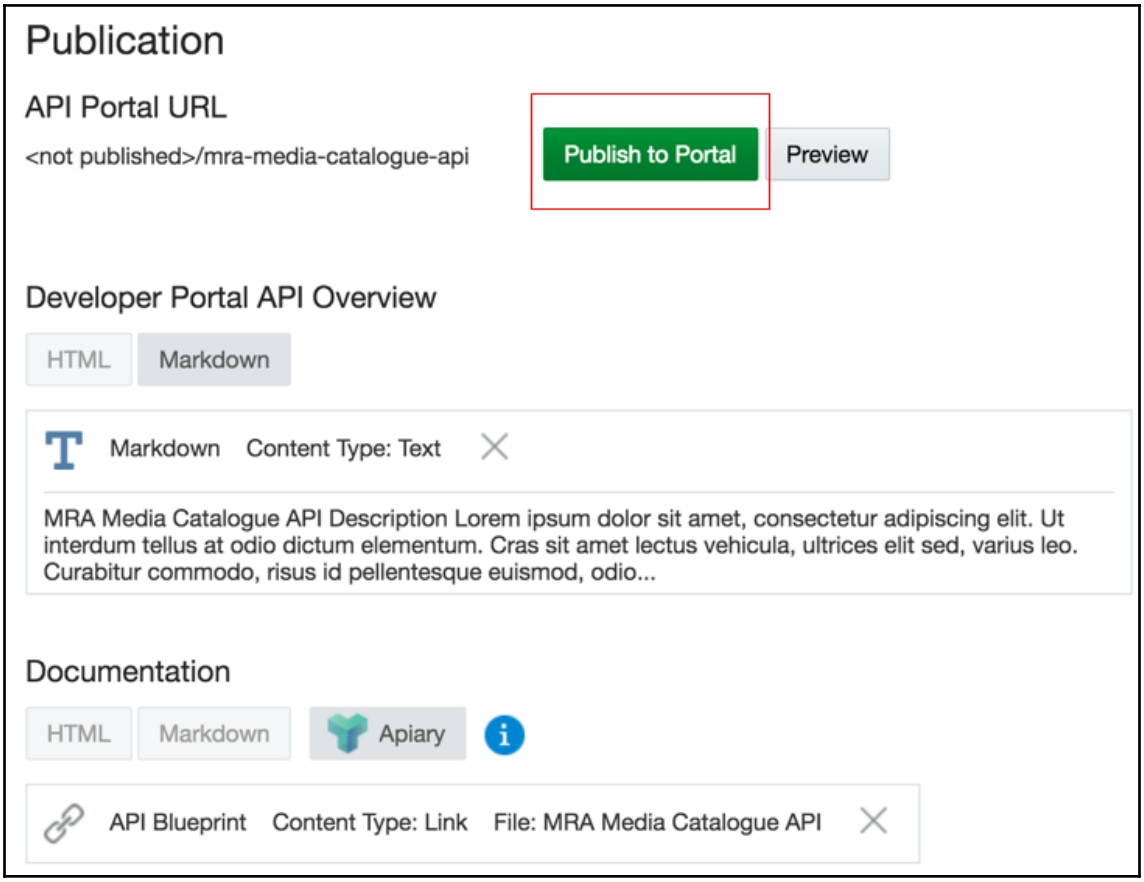

Publication
API Portal URL
<not published>/[Enter Portal Name]
1
2
Developer Portal API Overview
HTML
Markdown
3
Documentation
4
HTML
Markdown
Apiary


Publication
API Portal URL
<not published>/mra-media-catalogue-api
1
2

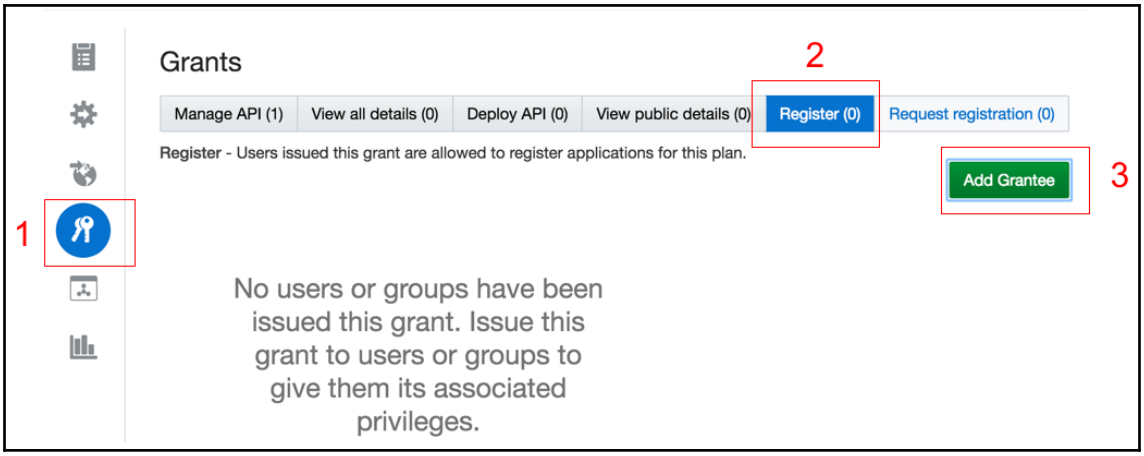

Developer Portal API Overview
HTML
Markdown
1
File
Text
Link
Text Documentation
MRA Media Catalogue API Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut interdum tellus at odio dictum elementum. Cras sit amet lectus vehicula, ultrices elit sed, varius leo. Curabitur commodo, risus id pellentesque
2
OK

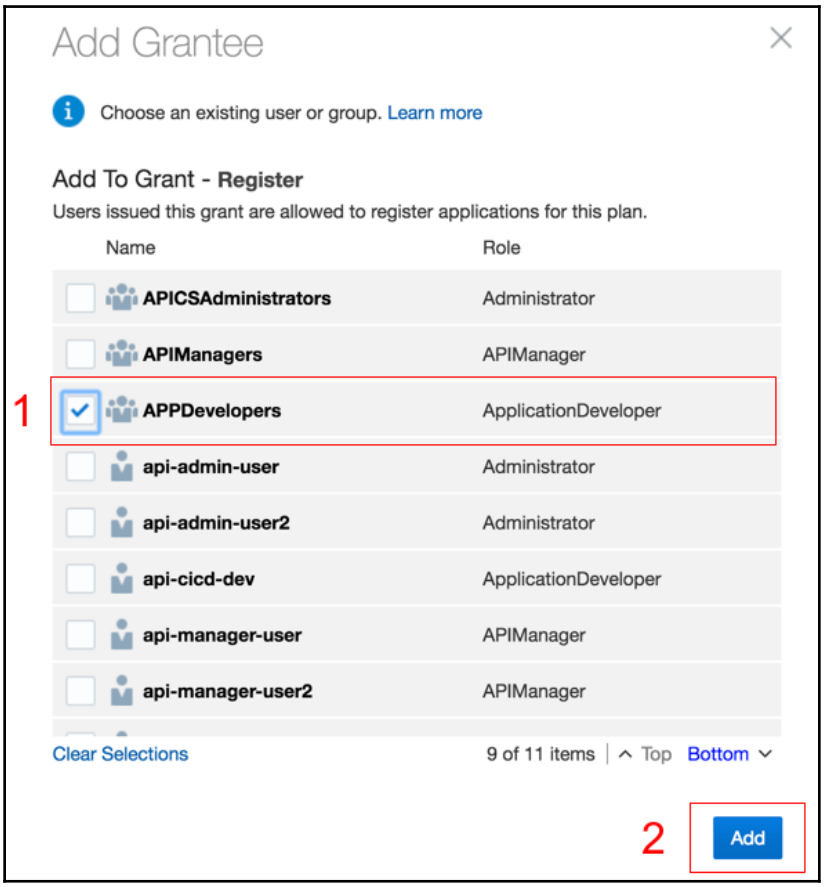

Select API Project
Find an API Project...
MRA Media Catalogue API
apiary • mramediacatalogueapi • Luis Weir
Documentation
HTML
Markdown
Apiary
Connect
Create link to Apiary
Connect
1
2
3
4

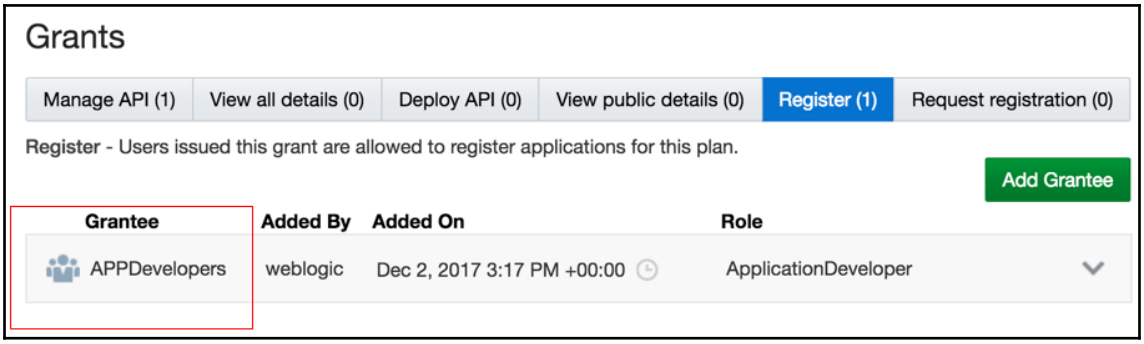

Discard
Save Changes


Publication
API Portal URL
<not published>/mra-media-catalogue-api
Publish to Portal
Preview
Developer Portal API Overview
HTML
Markdown
Markdown Content Type: Text
MRA Media Catalogue API Description Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut interdum tellus at odio dictum elementum. Cras sit amet lectus vehicula, ultrices elit sed, varius leo. Curabitur commodo, risus id pellentesque euismod, odio...
Documentation
HTML
Markdown
Apiary
API Blueprint Content Type: Link File: MRA Media Catalogue API

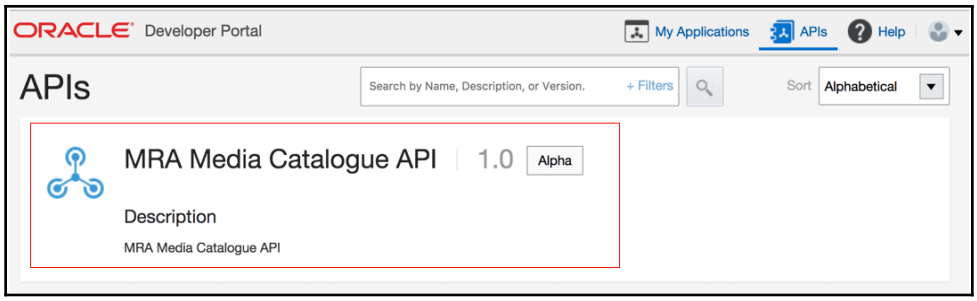
API Portal URL
http://oc-144-21-66-168.compute.oraclecloud.com:7201/developers/apis/mra-media-catalogue-api
Unpublish from Portal
Preview
Iteration 3 Last Published By weblogic Dec 2, 2017 2:31 PM +00:00


Grants
2
Manage API (1)
View all details (0)
Deploy API (0)
View public details (0)
Register (0)
Request registration (0)
Register - Users issued this grant are allowed to register applications for this plan.
Add Grantee
3
1
No users or groups have been issued this grant. Issue this grant to users or groups to give them its associated privileges.

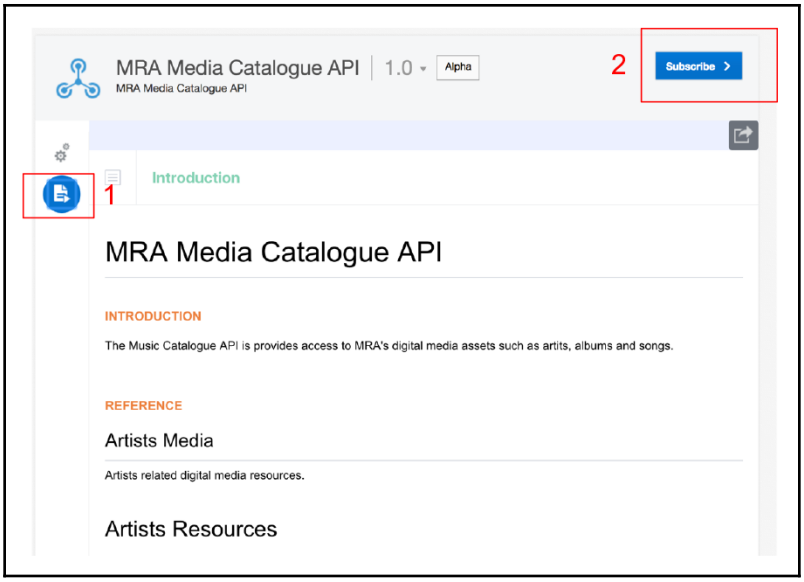

Add Grantee
Choose an existing user or group. Learn more
Add To Grant - Register
Users issued this grant are allowed to register applications for this plan.
Name
Role
APICSAdministrators
Administrator
APIManagers
APIManager
1
APPDevelopers
ApplicationDeveloper
api-admin-user
Administrator
api-admin-user2
Administrator
api-cicd-dev
ApplicationDeveloper
api-manager-user
APIManager
api-manager-user2
APIManager
Clear Selections
9 of 11 items
Top
Bottom
2
Add

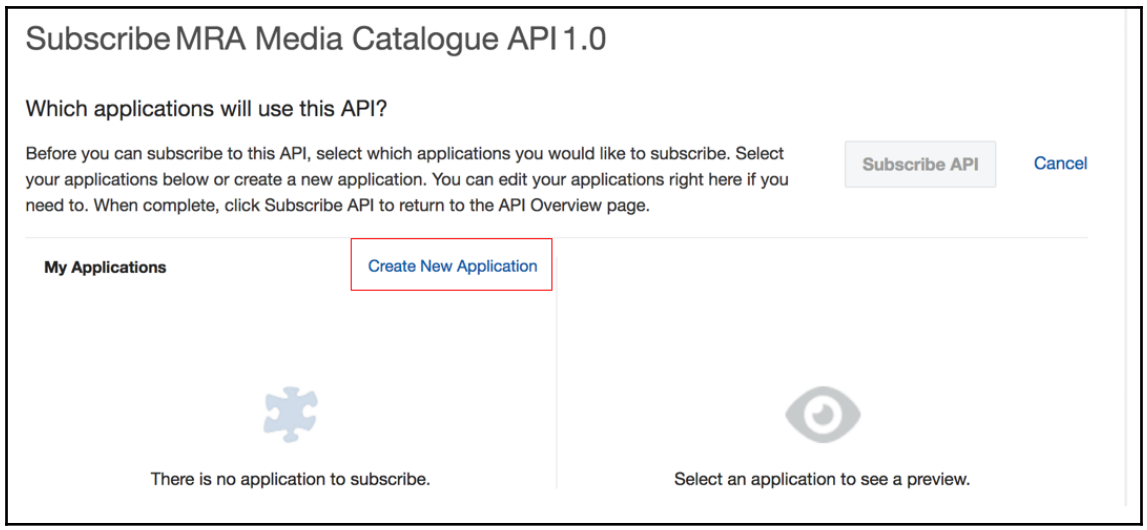

Grants
Manage API (1)
View all details (0)
Deploy API (0)
View public details (0)
Register (1)
Request registration (0)
Register - Users issued this grant are allowed to register applications for this plan.
Add Grantee
Grantee
Added By
Added On
Role
APPDevelopers
weblogic
Dec 2, 2017 3:17 PM +00:00
ApplicationDeveloper

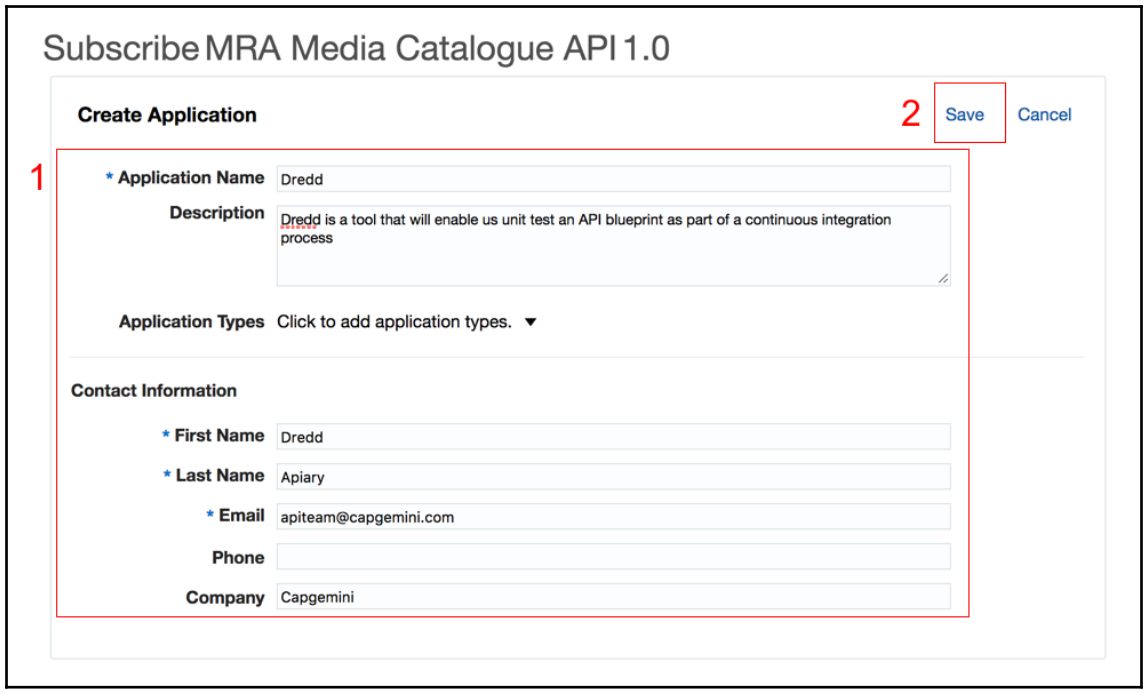
API Platform Cloud
Developer Portal
api-cicd-dev
Sign In

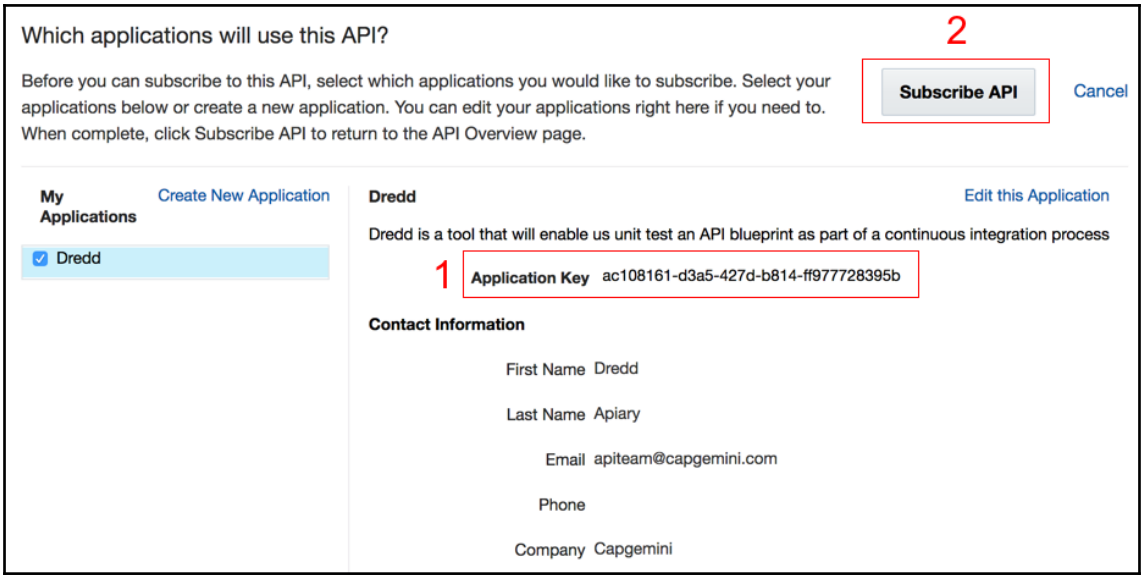

ORACLE Developer Portal
My Applications
APIs
Help
APIs
Search by Name, Description, or Version.
+ Filters
Sort
Alphabetical
MRA Media Catalogue API
1.0
Alpha
Description
MRA Media Catalogue API

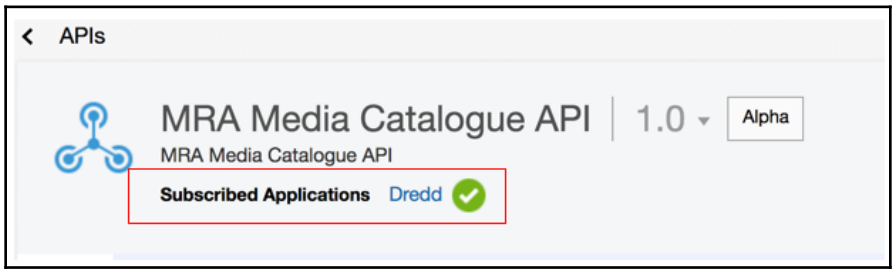
MRA Media Catalogue API
1.0
Alpha
MRA Media Catalogue API
Subscribe
MRA Media Catalogue API Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut interdum tellus at odio dictum elementum. Cras sit amet lectus vehicula, ultrices elit sed, varius leo. Curabitur commodo, risus id pellentesque euismod, odio orci finibus dolor, quis tristique lacus nunc quis nisi. Donec eget quam quis justo pretium ultricies. Morbi lobortis imperdiet nisl, eget congue nisi venenatis eget. Aenean id dui hendrerit sem imperdiet pharetra eget id massa. Nam pharetra blandit quam. Sed risus massa, dignissim a erat porta, accumsan venenatis dolor. Phasellus vulputate nisl a efficitur porta. Suspendisse non nunc justo. Etiam nec interdum mauris, non gravida sem.
Sed hendrerit vel elit sit amet varius. Mauris mollis sagittis lorem, ac venenatis sapien lacinia ac. Proin a tortor vestibulum diam feugiat semper. Aliquam erat volutpat. Duis non massa nulla. Aliquam vitae nunc accumsan lectus volutpat finibus. In imperdiet turpis at sem interdum, vel vehicula est gravida. Quisque in urna quis elit porttitor vulputate. Suspendisse faucibus sem sed maximus hendrerit. Cras facilisis orci a arcu tincidunt lobortis. Vestibulum porta, nisi quis tincidunt gravida, elit risus euismod est, et pulvinar urna ante eu elit. Pellentesque eu porta quam, non rutrum velit. Nunc sit amet enim quis quam suscipit lacinia. Morbi metus ipsum, suscipit in faucibus eget, hendrerit eget dui. Fusce pretium massa a massa tempus malesuada.
Proin volutpat sit amet diam quis gravida. Aenean viverra purus arcu. Nulla venenatis orci elit, et venenatis sapien porta ac. Morbi non nulla lorem. Suspendisse non viverra nulla, sit amet facilisis metus. Nam libero nunc, maximus in iaculis at, tincidunt eu sapien. Proin consequat placerat ligula ac mollis. Duis malesuada tortor quis dolor blandit ornare. Vivamus id vulputate diam.
Quisque leo risus, pretium non rutrum vel, maximus quis neque. Ut mattis, diam a facilisis ultricies, lorem sem bibendum mi, quis auctor enim nisl vel risus. Integer accumsan vitae justo ultrices condimentum. Proin vitae viverra eros. In vehicula feugiat magna tristique bibendum. Phasellus consequat tellus feugiat, varius massa non, convallis ligula. Aenean bibendum commodo aliquam. Nam vulputate tincidunt risus, in aliquet magna vulputate et. Maecenas scelerisque nec libero quis mattis. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Quisque augue velit, hendrerit vitae risus vel, finibus commodo ipsum.

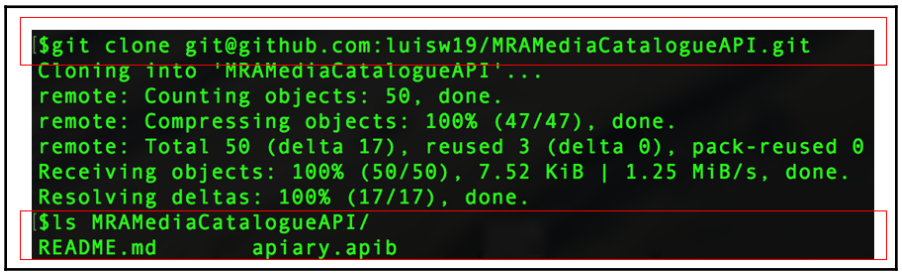

MRA Media Catalogue API
1.0
Alpha
MRA Media Catalogue API
2
Subscribe
1
Introduction
MRA Media Catalogue API
INTRODUCTION
The Music Catalogue API is provides access to MRA's digital media assets such as artits, albums and songs.
REFERENCE
Artists Media
Artists related digital media resources.
Artists Resources


Subscribe MRA Media Catalogue API 1.0
Which applications will use this API?
Before you can subscribe to this API, select which applications you would like to subscribe. Select your applications below or create a new application. You can edit your applications right here if you need to. When complete, click Subscribe API to return to the API Overview page.
Subscribe API
Cancel
My Applications
Create New Application
There is no application to subscribe.
Select an application to see a preview.

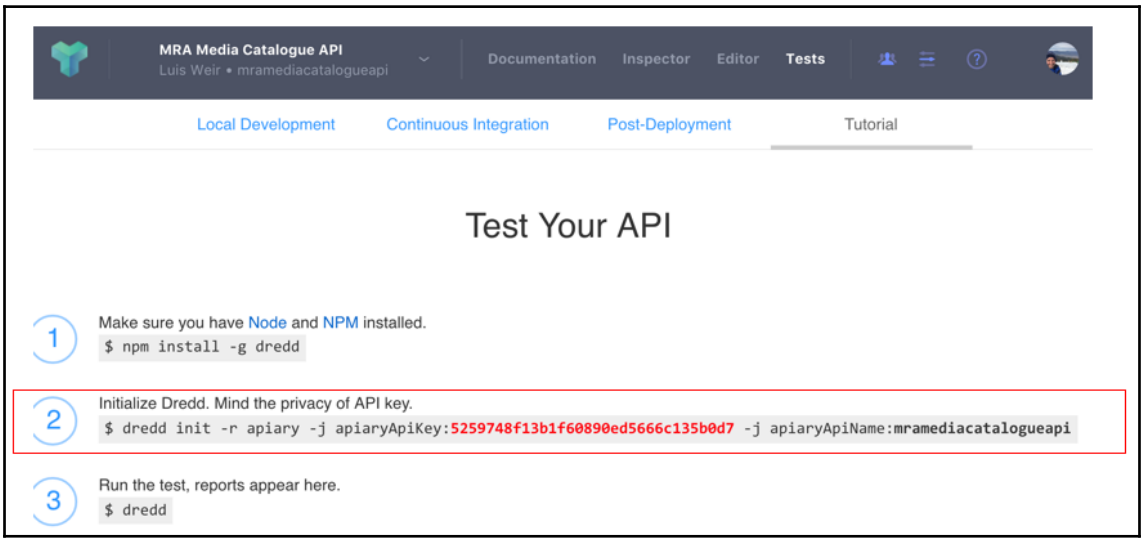

Subscribe MRA Media Catalogue API 1.0
Create Application
2
Save
Cancel
1
* Application Name
Dredd
Description
Dredd is a tool that will enable us unit test an API blueprint as part of a continuous integration process
Application Types
Click to add application types.
Contact Information
* First Name
Dredd
* Last Name
Apiary
* Email
apiteam@capgemini.com
Phone
Company
Capgemini


Which applications will use this API?
2
Before you can subscribe to this API, select which applications you would like to subscribe. Select your applications below or create a new application. You can edit your applications right here if you need to. When complete, click Subscribe API to return to the API Overview page.
Subscribe API
Cancel
My Applications
Create New Application
Dredd
Edit this Application
Dredd is a tool that will enable us unit test an API blueprint as part of a continuous integration process
1
Application Key ac108161-d3a5-427d-b814-ff977728395b
Contact Information
First Name Dredd
Last Name Apiary
Email apiteam@capgemini.com
Phone
Company Capgemini


APIs
MRA Media Catalogue API
1.0
Alpha
MRA Media Catalogue API
Subscribed Applications Dredd

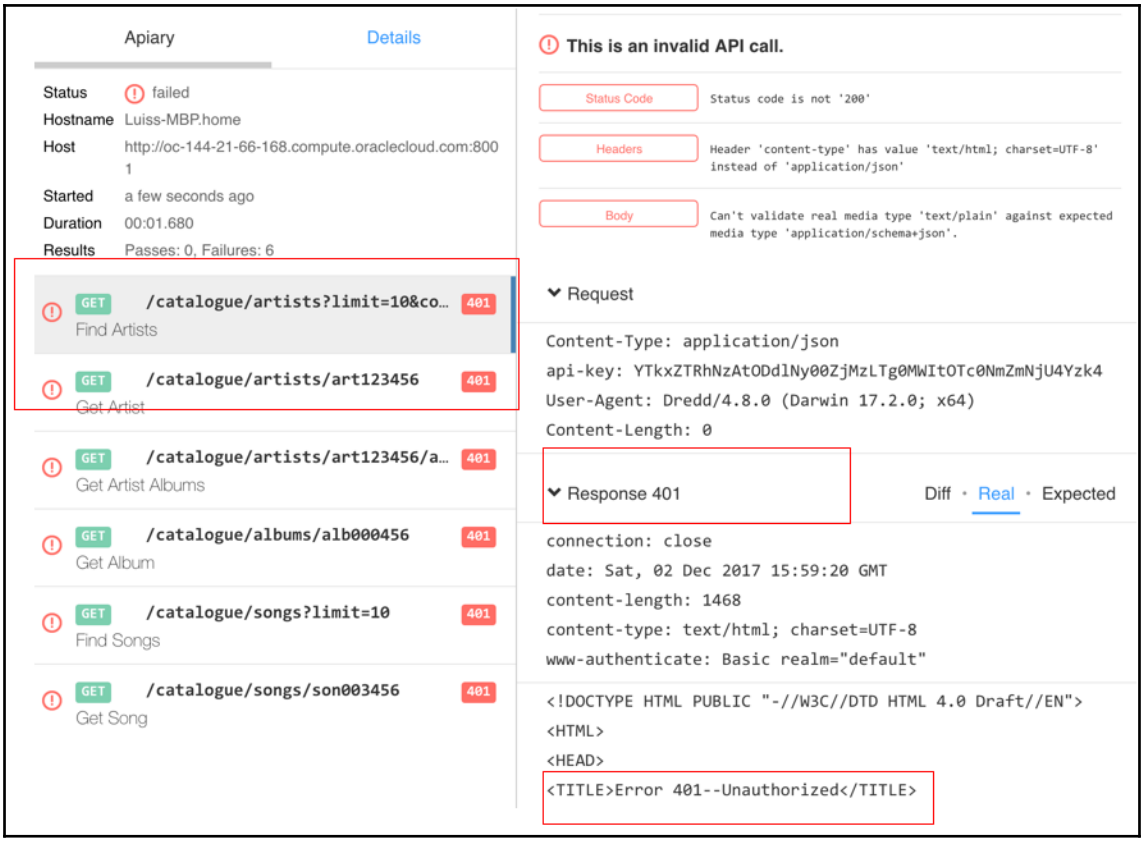

$git clone git@github.com:luisw19/MRAMediaCatalogueAPI.git
Cloning into 'MRAMediaCatalogueAPI'...
remote: Counting objects: 50, done.
remote: Compressing objects: 100% (47/47), done.
remote: Total 50 (delta 17), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (50/50), 7.52 KiB | 1.25 MiB/s, done.
Resolving deltas: 100% (17/17), done.
$ls MRAMediaCatalogueAPI/
README.md apiary.apib

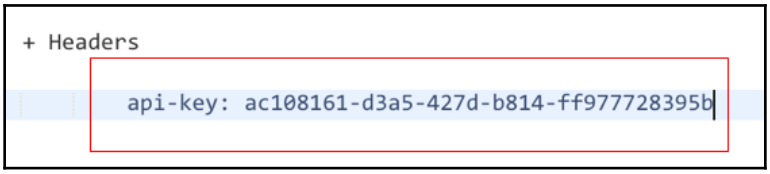
```
$npm install -g dredd
/usr/local/bin/dredd -> /usr/local/lib/node_modules/dredd/bin/dredd
+ dredd@4.9.1
added 6 packages and updated 15 packages in 34.85s
$
```




```
$dredd init -r apiary -j apiaryApiKey:5259748f13b1f60890ed5666c135b0d7 -j apiaryApiName:mramediacatalogueapi
? Location of the API description document apiary.apib
? Command to start API backend server e.g. (bundle exec rails server)
? URL of tested API endpoint http://oc-144-21-66-168.compute.oraclecloud.com:8001
? Programming language of hooks nodejs
? Dredd is best served with Continuous Integration. Create CircleCI config for Dredd? No

Configuration saved to dredd.yml

Run test now, with:

  $ dredd
```

```
complete: 0 passing, 6 failing, 0 errors, 0 skipped, 6 total
complete: Tests took 1680ms
complete: See results in Apiary at: https://app.apiary.io/mramediacatalogueapi/tests/run/1bc75c6e-cb20-43d9-b396-7
a28b666cb7e
```


Apiary
Details
Status failed
Hostname Luiss-MBP.home
Host http://oc-144-21-66-168.compute.oraclecloud.com:8001
Started a few seconds ago
Duration 00:01.680
Results Passes: 0, Failures: 6
GET /catalogue/artists?limit=10&co... 401
Find Artists
GET /catalogue/artists/art123456 401
Get Artist
GET /catalogue/artists/art123456/a... 401
Get Artist Albums
GET /catalogue/albums/alb000456 401
Get Album
GET /catalogue/songs?limit=10 401
Find Songs
GET /catalogue/songs/son003456 401
Get Song
This is an invalid API call.
Status Code
Status code is not '200'
Headers
Header 'content-type' has value 'text/html; charset=UTF-8' instead of 'application/json'
Body
Can't validate real media type 'text/plain' against expected media type 'application/schema+json'.
Request
Content-Type: application/json
api-key: YTkxZTRhNzAtODdlNy00ZjMzLTg0MWItOTc0NmZmNjU4Yzk4
User-Agent: Dredd/4.8.0 (Darwin 17.2.0; x64)
Content-Length: 0
Response 401
Diff · Real · Expected
connection: close
date: Sat, 02 Dec 2017 15:59:20 GMT
content-length: 1468
content-type: text/html; charset=UTF-8
www-authenticate: Basic realm="default"
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Draft//EN">
<HTML>
<HEAD>
<TITLE>Error 401--Unauthorized</TITLE>

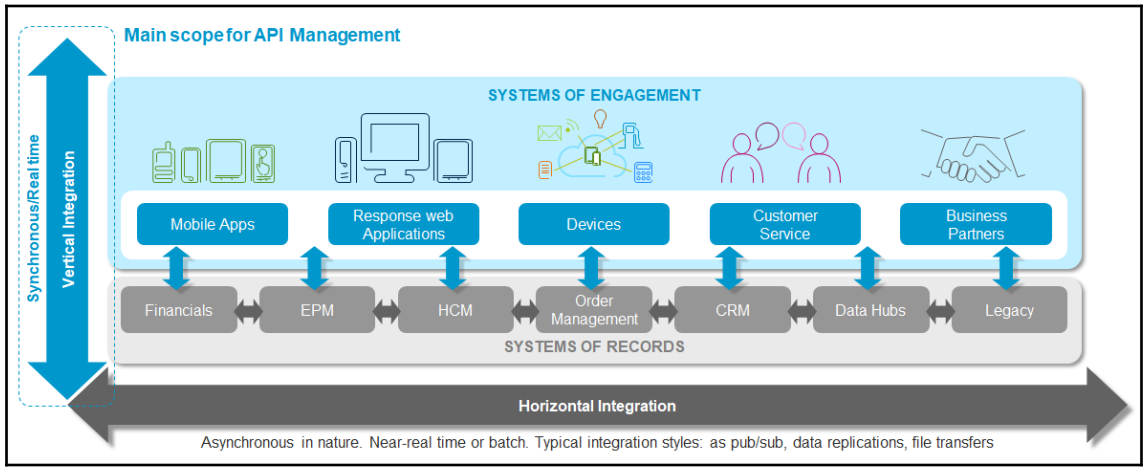

+ Headers
api-key: ac108161-d3a5-427d-b814-ff977728395b

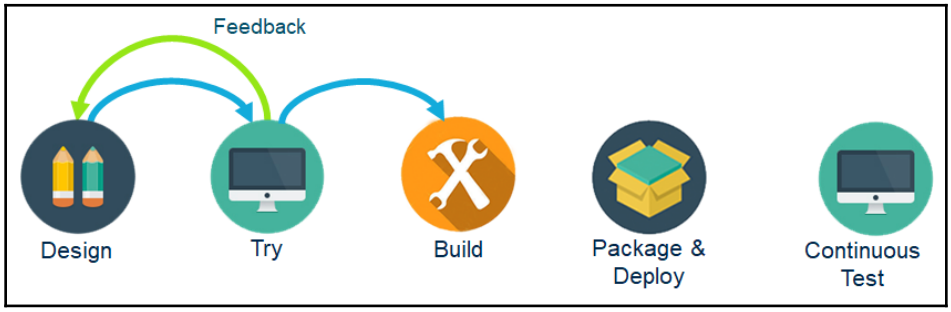
1
```
$git pull
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/luisw19/MRAMediaCatalogueAPI
   1db0be9..4844bca  master     -> origin/master
Updating 1db0be9..4844bca
Fast-forward
 apiary.apib | 30 +++++++++++++++----------------
 1 file changed, 15 insertions(+), 15 deletions(-)
```

2
```
$git diff HEAD^ HEAD apiary.apib
diff --git a/apiary.apib b/apiary.apib
index 240ec7c..6523b3a 100644
--- a/apiary.apib
+++ b/apiary.apib
@@ -40,7 +40,7 @@ Returns all MRA Artists that match the specified criteria.

     + Headers

-            api-key: 9d444d8c-1f30-492f-9d1f-c801089c2e65
+            api-key: ac108161-d3a5-427d-b814-ff977728395b

  + Response 200 (application/json)

@@ -57,7 +57,7 @@ Creates an Artist.

     + Headers

-            api-key: 9d444d8c-1f30-492f-9d1f-c801089c2e65
+            api-key: ac108161-d3a5-427d-b814-ff977728395b
```

```
$dredd
info: Configuration './dredd.yml' found, ignoring other arguments.
info: Beginning Dredd testing...
pass: GET (200) /catalogue/artists?limit=10&name=Oasis&country=GB duration: 2783ms
pass: POST (201) /catalogue/artists?limit=10&name=Oasis&country=GB duration: 587ms
pass: GET (200) /catalogue/artists/art123456 duration: 770ms
pass: PUT (200) /catalogue/artists/art123456 duration: 545ms
pass: GET (200) /catalogue/artists/art123456/albums duration: 661ms
pass: GET (200) /catalogue/albums?limit=10 duration: 540ms
pass: POST (201) /catalogue/albums?limit=10 duration: 873ms
pass: GET (200) /catalogue/albums/alb000456 duration: 504ms
pass: POST (200) /catalogue/albums/alb000456 duration: 572ms
pass: GET (200) /catalogue/songs?limit=10 duration: 549ms
pass: POST (201) /catalogue/songs?limit=10 duration: 556ms
pass: GET (200) /catalogue/songs/son003456 duration: 531ms
pass: POST (200) /catalogue/songs/son003456 duration: 551ms
complete: 13 passing, 0 failing, 0 errors, 0 skipped, 13 total
complete: Tests took 11339ms
complete: See results in Apiary at: https://app.apiary.io/mramediacatalogueapi/tests/run/384aa4ed-2b91-4e2c-b4a9
-ab608f930997
```

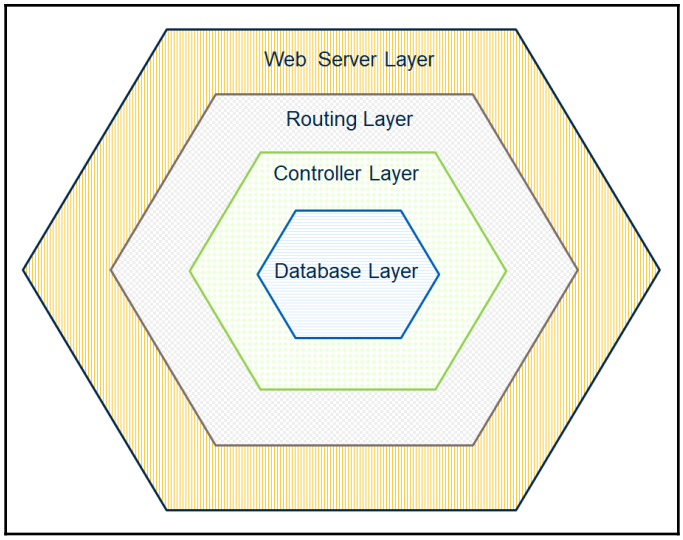
Chapter 4: Building and Running the Microservice

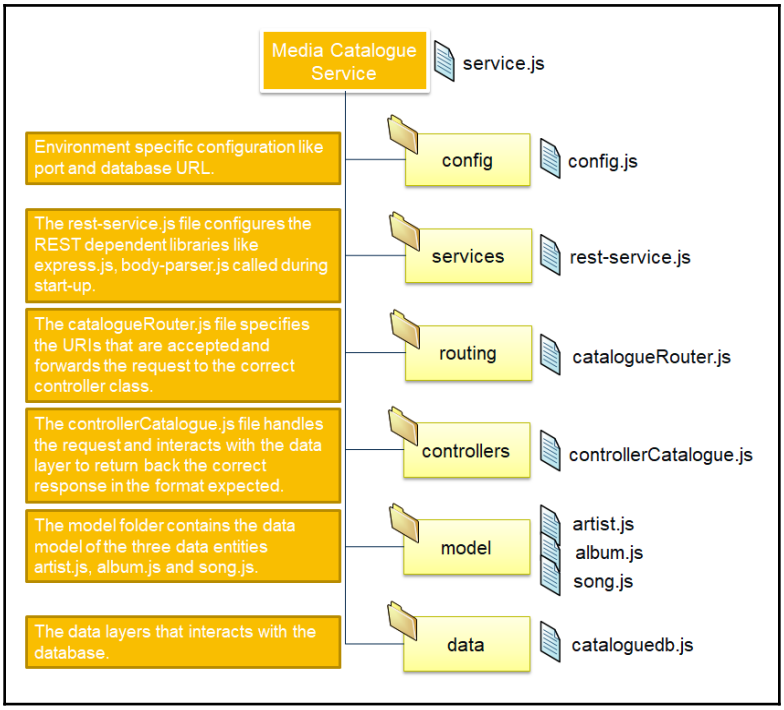


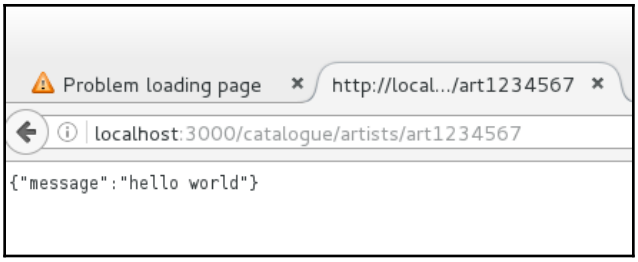


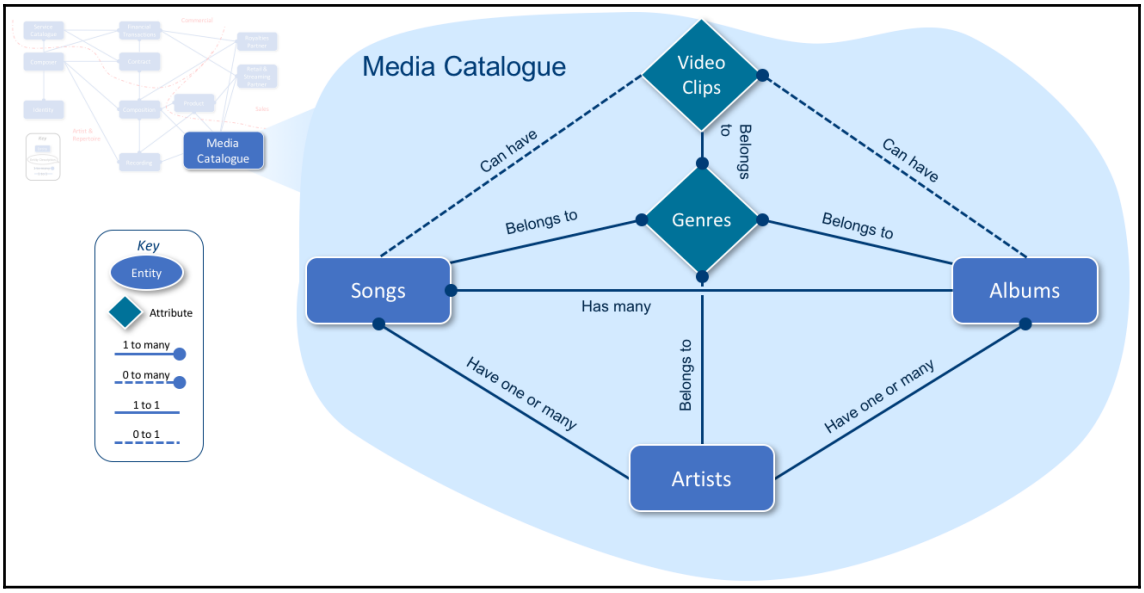

```
> show dbs
admin          0.000GB
catalogue db   0.000GB
config         0.000GB
local          0.000GB
test           0.000GB
```

```
File  Edit  View  Search  Terminal  Help
{
  "name": "media_catalogue_service",
  "version": "1.0.0",
  "description": "The Media Catalogue Service is created for the MRA example us
 case that supports chapter 4 Building and running the Microservice of the book
Implementing Oracle API Platform Cloud Service.",
  "main": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.com/APIPlatform-Book/APIPlatform.git"
  },
  "author": "Sander Rensen",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/APIPlatform-Book/APIPlatform/issues"
  },
  "homepage": "https://github.com/APIPlatform-Book/APIPlatform#readme"
}

is this ok? (yes)
```

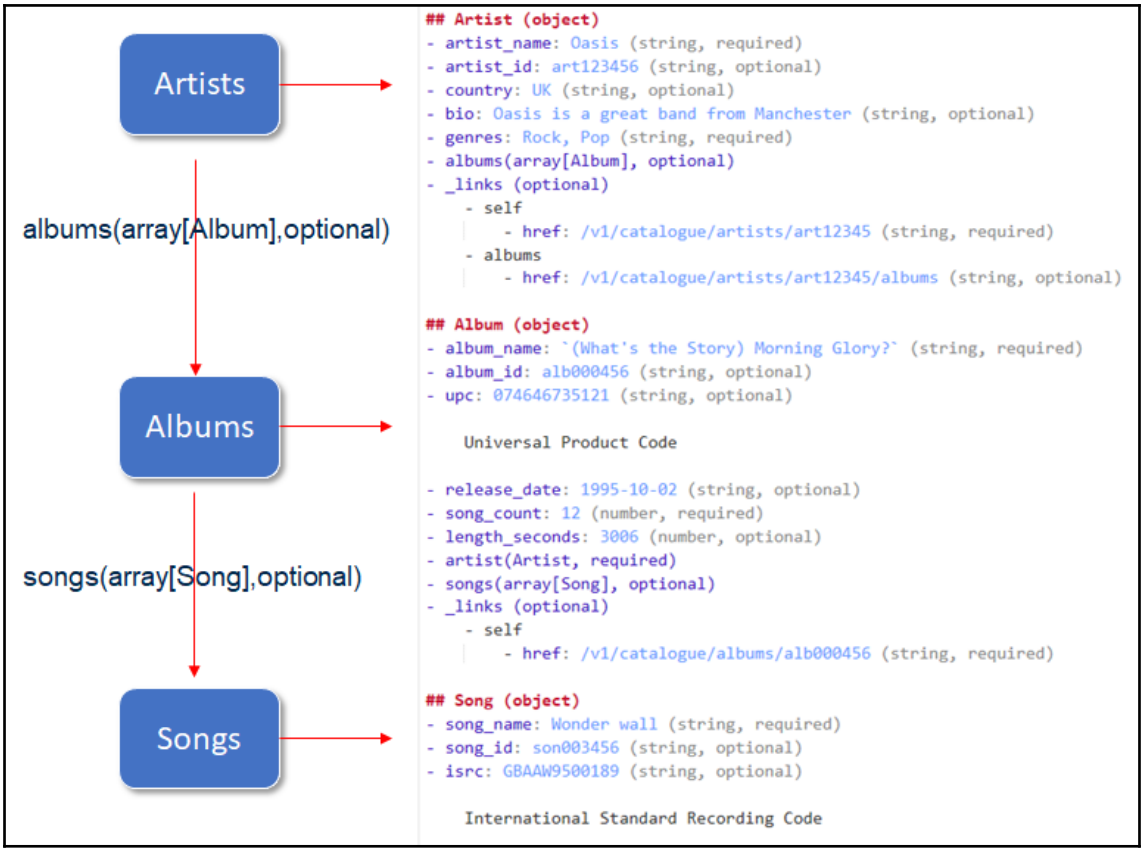


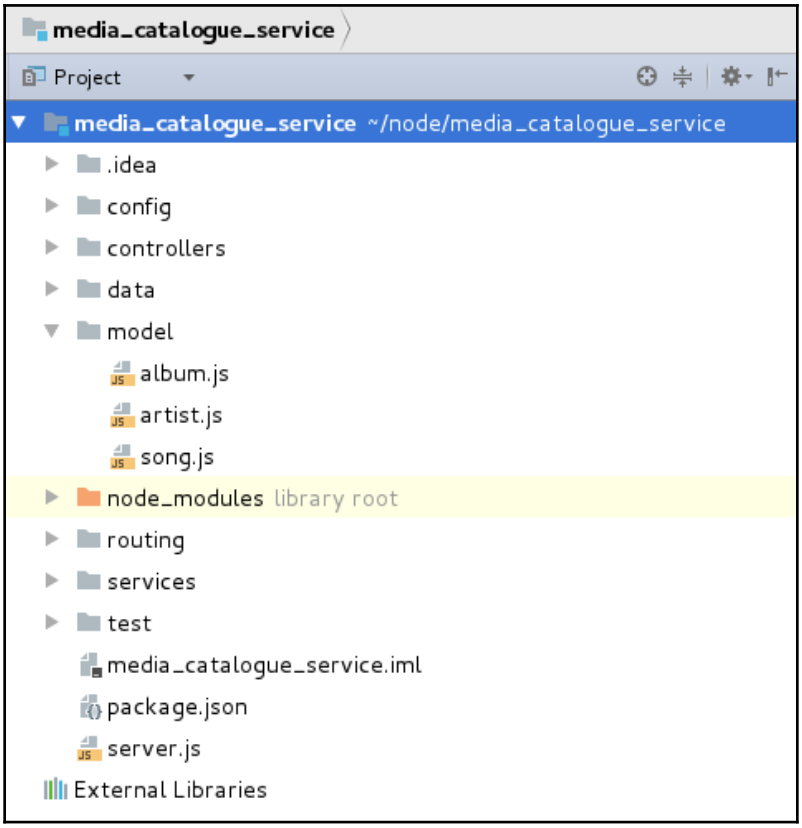

Media Catalogue Service
service.js
Environment specific configuration like port and database URL.
config
config.js
The rest-service.js file configures the REST dependent libraries like express.js, body-parser.js called during start-up.
services
rest-service.js
The catalogueRouter.js file specifies the URIs that are accepted and forwards the request to the correct controller class.
routing
catalogueRouter.js
The controllerCatalogue.js file handles the request and interacts with the data layer to return back the correct response in the format expected.
controllers
controllerCatalogue.js
The model folder contains the data model of the three data entities artist.js, album.js and song.js.
model
artist.js
album.js
song.js
The data layers that interacts with the database.
data
cataloguedb.js

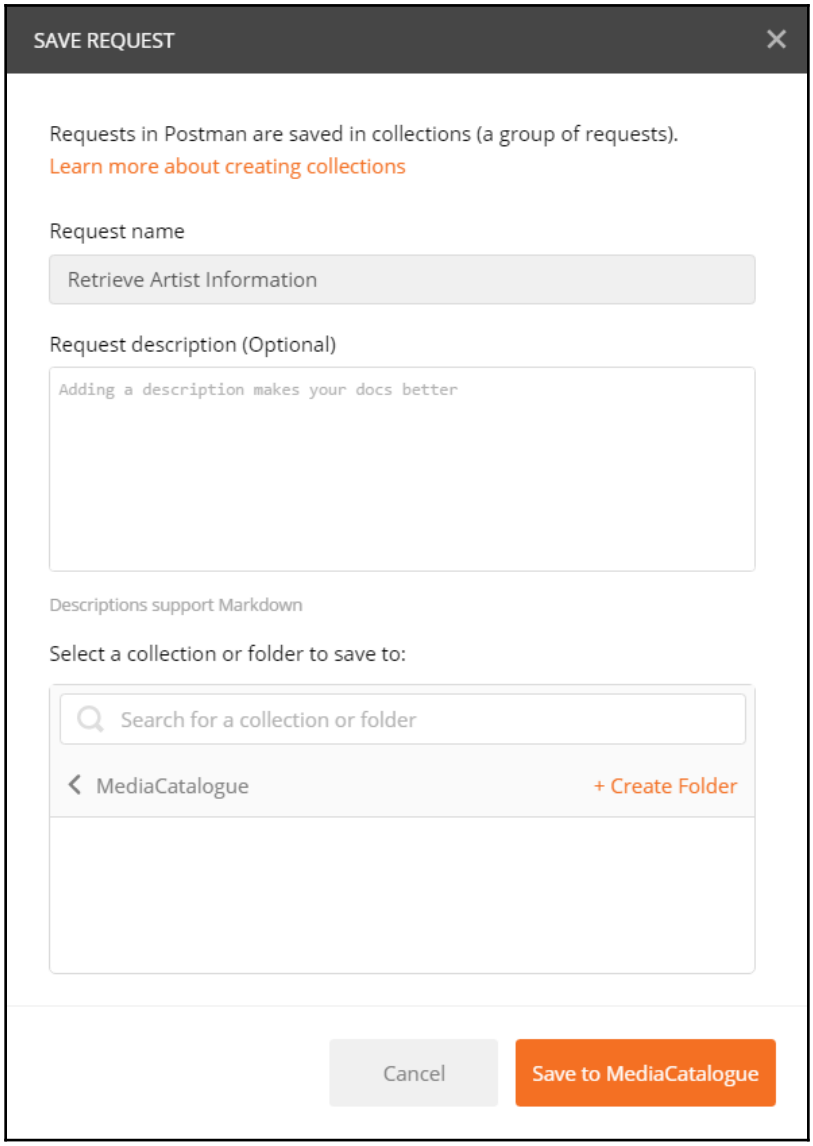

Problem loading page
http://local.../art1234567
localhost:3000/catalogue/artists/art1234567
{"message":"hello world"}

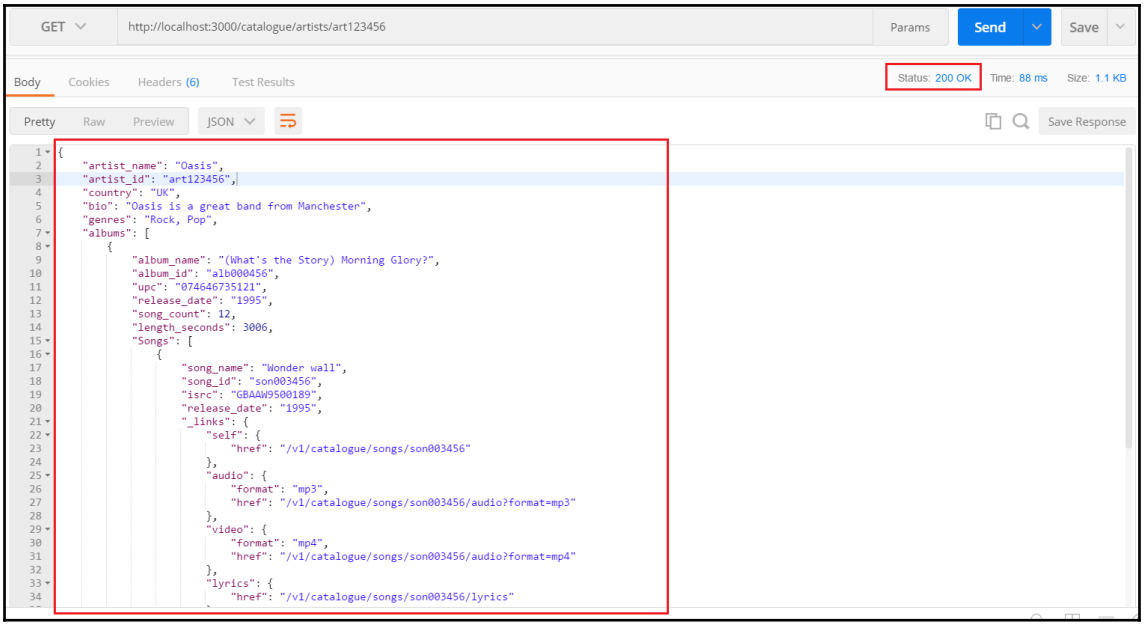


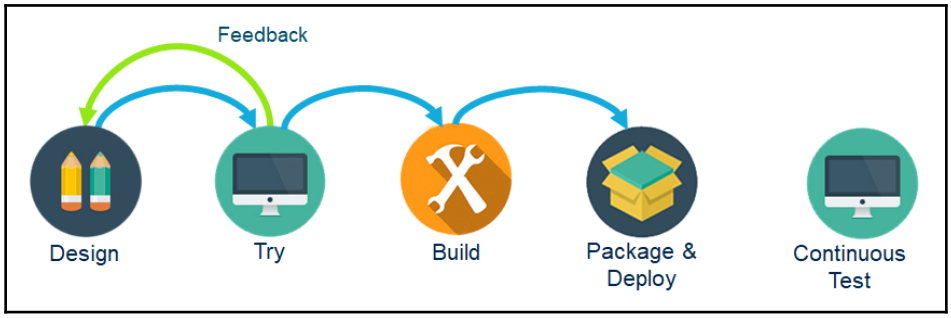

```
### Get Artist [GET]
Returns the details for a specific Artist such as bio and Albums.

+ Request (text/plain)

    + Headers

            api-key: ac108161-d3a5-427d-b814-ff977728395b

+ Response 200 (application/json)

    + Attributes (Artist)
```

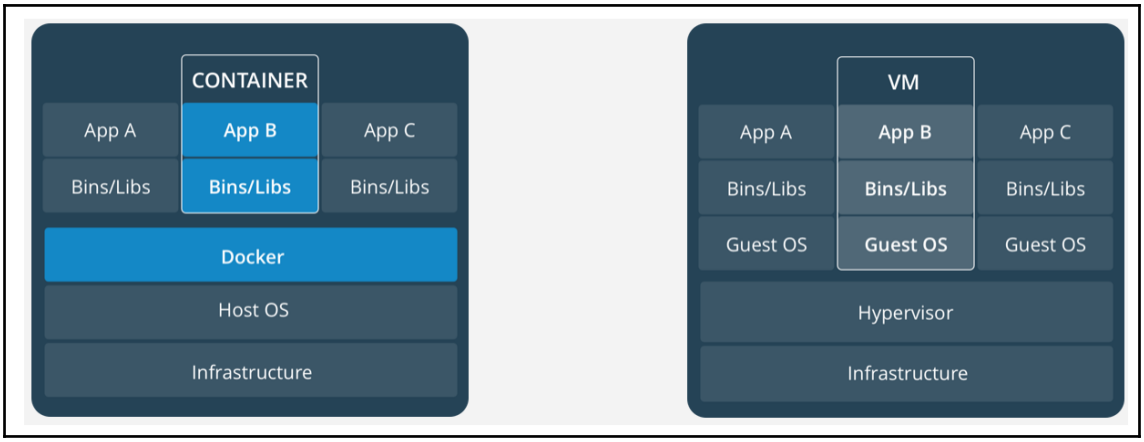

Artists
albums(array[Album],optional)
Albums
songs(array[Song],optional)
Songs
Artist (object)
- artist_name: Oasis (string, required)
- artist_id: art123456 (string, optional)
- country: UK (string, optional)
- bio: Oasis is a great band from Manchester (string, optional)
- genres: Rock, Pop (string, required)
- albums(array[Album], optional)
- _links (optional)
- self
- href: /v1/catalogue/artists/art12345 (string, required)
- albums
- href: /v1/catalogue/artists/art12345/albums (string, optional)
Album (object)
- album_name: `(What's the Story) Morning Glory?` (string, required)
- album_id: alb000456 (string, optional)
- upc: 074646735121 (string, optional)
Universal Product Code
- release_date: 1995-10-02 (string, optional)
- song_count: 12 (number, required)
- length_seconds: 3006 (number, optional)
- artist(Artist, required)
- songs(array[Song], optional)
- _links (optional)
- self
- href: /v1/catalogue/albums/alb000456 (string, required)
Song (object)
- song_name: Wonder wall (string, required)
- song_id: son003456 (string, optional)
- isrc: GBAAW9500189 (string, optional)
International Standard Recording Code

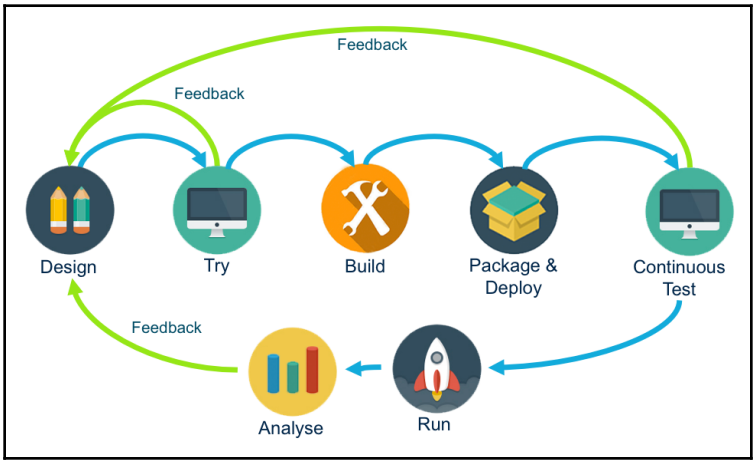

media_catalogue_service
Project
media_catalogue_service ~/node/media_catalogue_service
.idea
config
controllers
data
model
album.js
artist.js
song.js
node_modules library root
routing
services
test
media_catalogue_service.iml
package.json
server.js
External Libraries

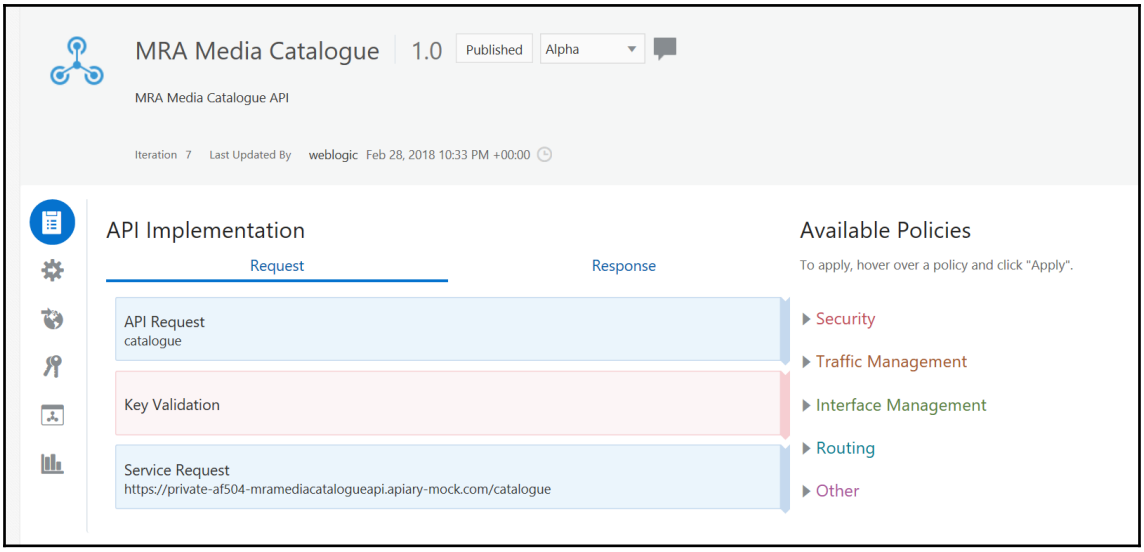

SAVE REQUEST
Requests in Postman are saved in collections (a group of requests).
Learn more about creating collections
Request name
Retrieve Artist Information
Request description (Optional)
Adding a description makes your docs better
Descriptions support Markdown
Select a collection or folder to save to:
Search for a collection or folder
MediaCatalogue
+ Create Folder
Cancel
Save to MediaCatalogue

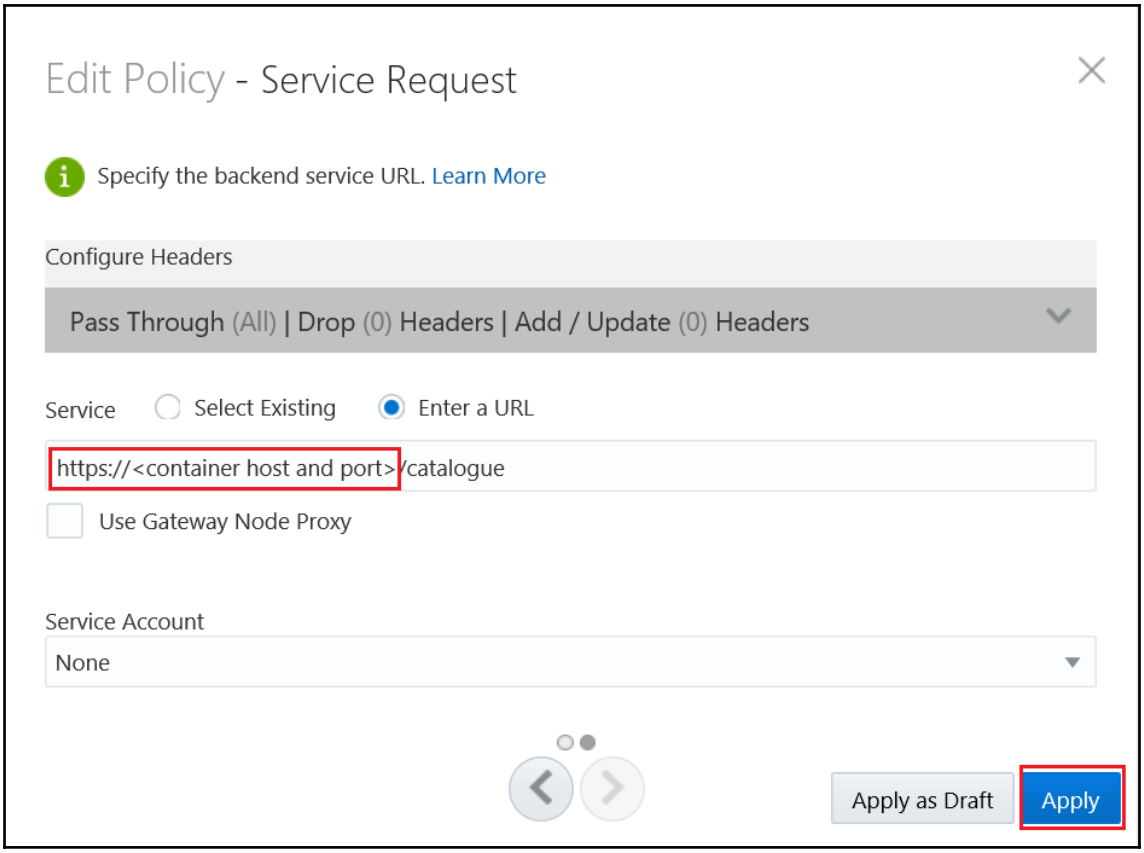

GET
http://localhost:3000/catalogue/artists/art123456
Params
Send
Save
Body
Cookies
Headers (6)
Test Results
Status: 200 OK
Time: 88 ms
Size: 1.1 KB
Pretty
Raw
Preview
JSON
Save Response
{
"artist_name": "Oasis",
"artist_id": "art123456",
"country": "UK",
"bio": "Oasis is a great band from Manchester",
"genres": "Rock, Pop",
"albums": [
{
"album_name": "(What's the Story) Morning Glory?",
"album_id": "alb000456",
"upc": "074646735121",
"release_date": "1995",
"song_count": 12,
"length_seconds": 3006,
"Songs": [
{
"song_name": "Wonder wall",
"song_id": "son003456",
"isrc": "GBAAW9500189",
"release_date": "1995",
"_links": {
"self": {
"href": "/v1/catalogue/songs/son003456"
},
"audio": {
"format": "mp3",
"href": "/v1/catalogue/songs/son003456/audio?format=mp3"
},
"video": {
"format": "mp4",
"href": "/v1/catalogue/songs/son003456/audio?format=mp4"
},
"lyrics": {
"href": "/v1/catalogue/songs/son003456/lyrics"

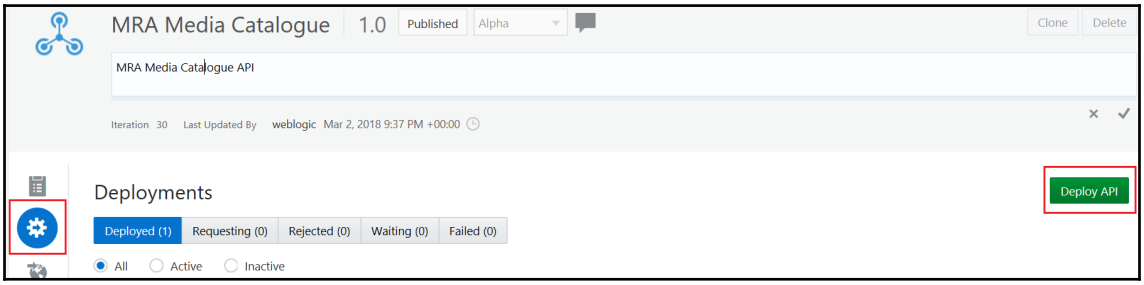

Feedback
Design
Try
Build
Package & Deploy
Continuous Test


CONTAINER
App A
App B
App C
Bins/Libs
Bins/Libs
Bins/Libs
Docker
Host OS
Infrastructure
VM
App A
App B
App C
Bins/Libs
Bins/Libs
Bins/Libs
Guest OS
Guest OS
Guest OS
Hypervisor
Infrastructure


Feedback
Feedback
Design
Try
Build
Package & Deploy
Continuous Test
Feedback
Analyse
Run


MRA Media Catalogue
1.0
Published
Alpha
MRA Media Catalogue API
Iteration 7
Last Updated By
weblogic
Feb 28, 2018 10:33 PM +00:00
API Implementation
Request
Response
API Request
catalogue
Key Validation
Service Request
https://private-af504-mramediacatalogueapi.apiary-mock.com/catalogue
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other


Edit Policy - Service Request
Specify the backend service URL. Learn More
Configure Headers
Pass Through (All) | Drop (0) Headers | Add / Update (0) Headers
Service
Select Existing
Enter a URL
https://<container host and port>/catalogue
Use Gateway Node Proxy
Service Account
None
Apply as Draft
Apply


MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 30
Last Updated By
weblogic Mar 2, 2018 9:37 PM +00:00
Deployments
Deploy API
Deployed (1)
Requesting (0)
Rejected (0)
Waiting (0)
Failed (0)
All
Active
Inactive

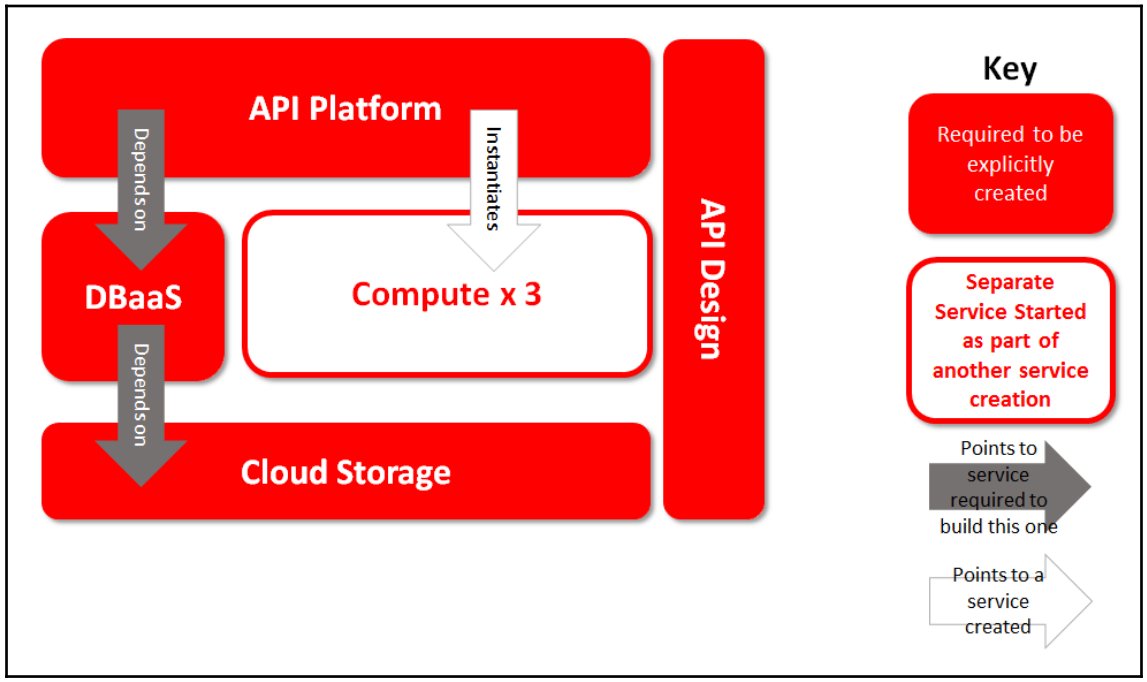
```
[root@docker MRAMediaCatalogueAPI]# dredd init -r apiary -j apiaryApiKey:55b197b27fbc6e9bba37a1b0f6b55
? Location of the API description document apiary.apib
? Command to start API backend server e.g. (bundle exec rails server)
? URL of tested API endpoint http://oc-144-21-66-168.compute.oraclecloud.com:8001
? Programming language of hooks nodejs
? Please enter Apiary API key or leave empty for anonymous reporter 55b197b27fbc6e9bba37a1b0f6b554b8
? Dredd is best served with Continuous Integration. Create CircleCI config for Dredd? No

Configuration saved to dredd.yml

Run test now, with:

  $ dredd
```

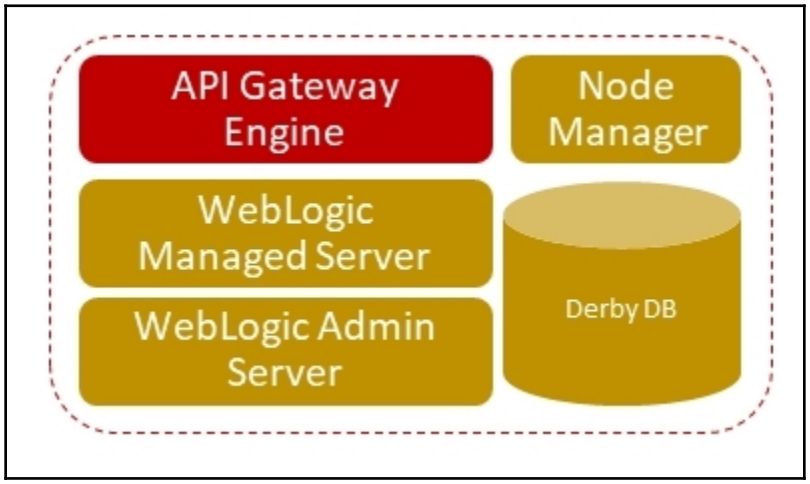
```
[root@docker MRAMediaCatalogueAPI]# dredd
info: Configuration './dredd.yml' found, ignoring other arguments.
info: Beginning Dredd testing...
fail: GET (200) /catalogue/artists?limit=10&name=Oasis&country=GB duration: 99ms
pass: POST (201) /catalogue/artists?limit=10&name=Oasis&country=GB duration: 31ms
fail: GET (200) /catalogue/artists/art123456 duration: 1542ms
fail: PUT (200) /catalogue/artists/art123456 duration: 10ms
fail: GET (200) /catalogue/artists/art123456/albums duration: 13ms
fail: GET (200) /catalogue/albums?limit=10 duration: 15ms
pass: POST (201) /catalogue/albums?limit=10 duration: 18ms
fail: GET (200) /catalogue/albums/alb000456 duration: 14ms
fail: POST (200) /catalogue/albums/alb000456 duration: 21ms
fail: GET (200) /catalogue/songs?limit=10 duration: 20ms
pass: POST (201) /catalogue/songs?limit=10 duration: 40ms
fail: GET (200) /catalogue/songs/son003456 duration: 38ms
fail: POST (200) /catalogue/songs/son003456 duration: 12ms
fail: POST (201) /catalogue/songs/son003456/media duration: 8ms
```

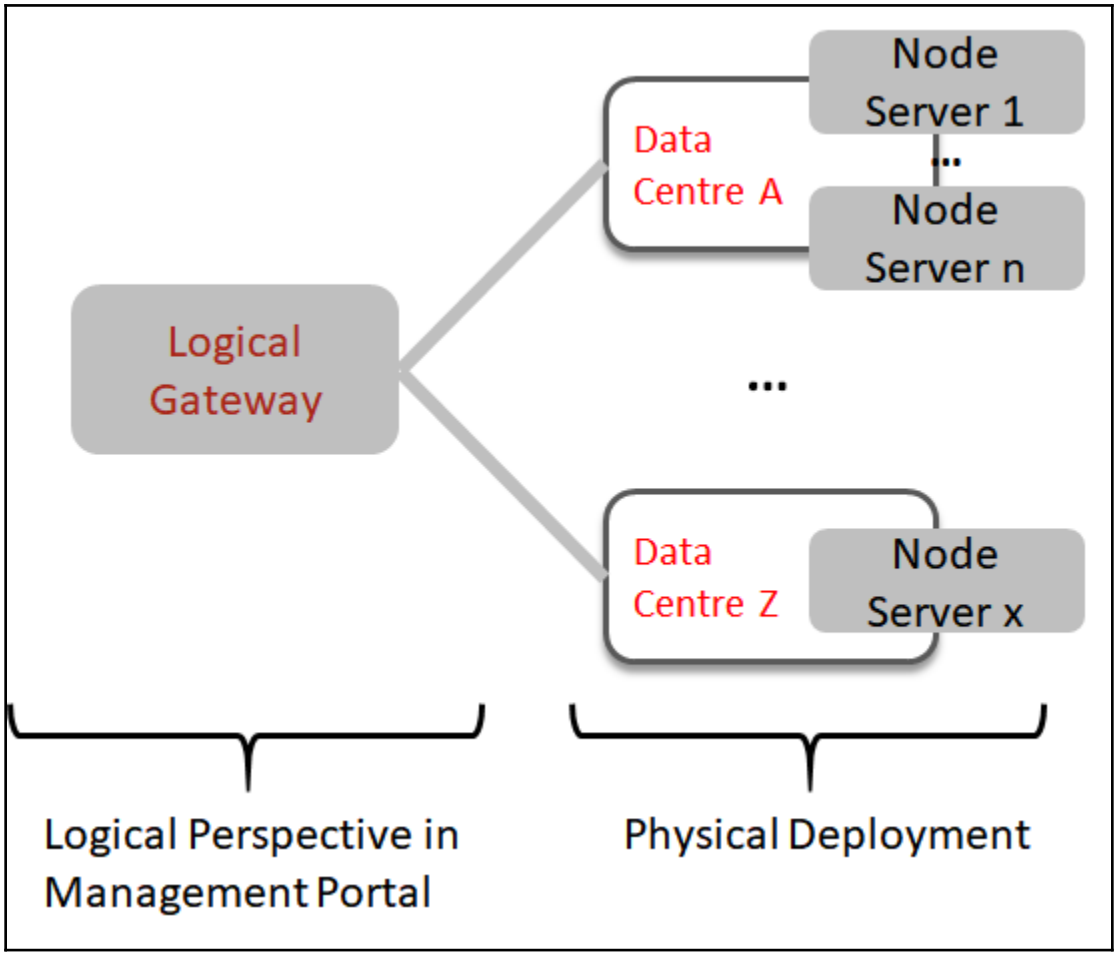
```
complete: 3 passing, 11 failing, 0 errors, 0 skipped, 14 total
complete: Tests took 2058ms
complete: See results in Apiary at: https://app.apiary.io/mramediacatalogueapi/tests/run/f5e17cb5-ce41-467a-9ac1-19865ef522a6
[root@docker MRAMediaCatalogueAPI]#
```

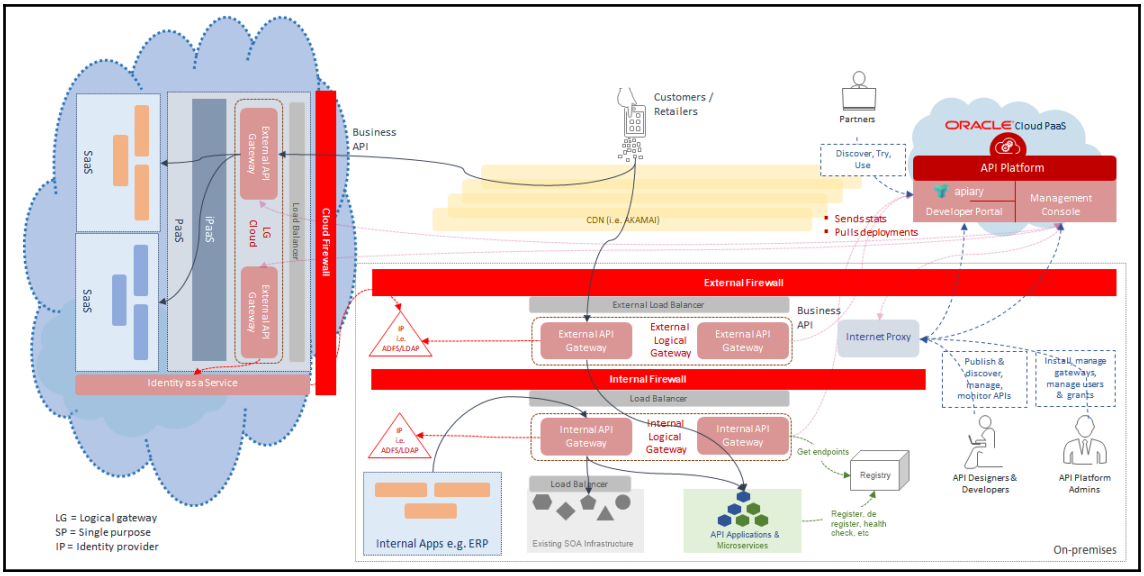
```
[root@docker MRAMediaCatalogueAPI]# dredd
info: Configuration './dredd.yml' found, ignoring other arguments.
info: Beginning Dredd testing...
fail: GET (200) /catalogue/artists?limit=10&name=Oasis&country=GB duration: 57ms
pass: POST (201) /catalogue/artists?limit=10&name=Oasis&country=GB duration: 19ms
pass: GET (200) /catalogue/artists/art123456 duration: 32ms
fail: PUT (200) /catalogue/artists/art123456 duration: 12ms
fail: GET (200) /catalogue/artists/art123456/albums duration: 226ms
fail: GET (200) /catalogue/albums?limit=10 duration: 13ms
pass: POST (201) /catalogue/albums?limit=10 duration: 21ms
fail: GET (200) /catalogue/albums/alb000456 duration: 373ms
fail: POST (200) /catalogue/albums/alb000456 duration: 14ms
fail: GET (200) /catalogue/songs?limit=10 duration: 15ms
pass: POST (201) /catalogue/songs?limit=10 duration: 384ms
fail: GET (200) /catalogue/songs/son003456 duration: 42ms
fail: POST (200) /catalogue/songs/son003456 duration: 14ms
fail: POST (201) /catalogue/songs/son003456/media duration: 384ms
info: Displaying failed tests...
fail: GET (200) /catalogue/artists?limit=10&name=Oasis&country=GB duration: 57ms
```

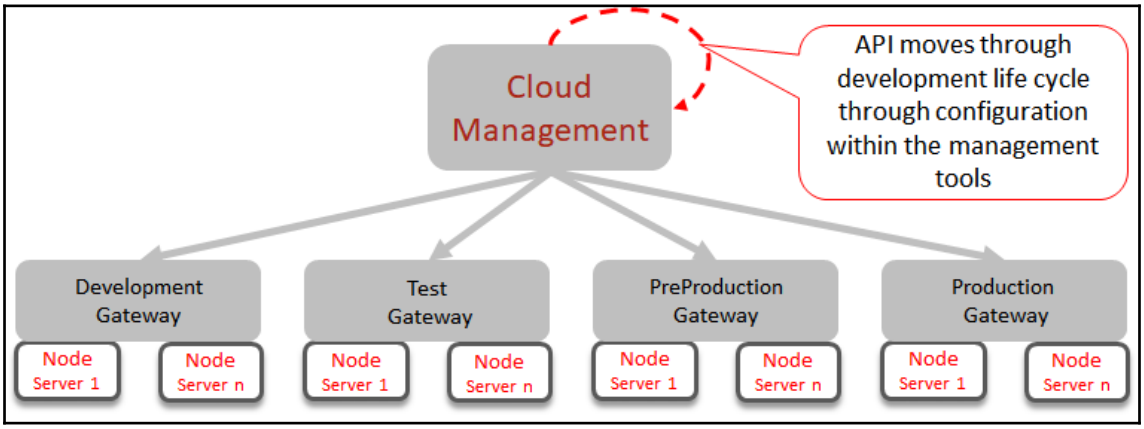
Chapter 5: Platform Setup and Gateway Configuration

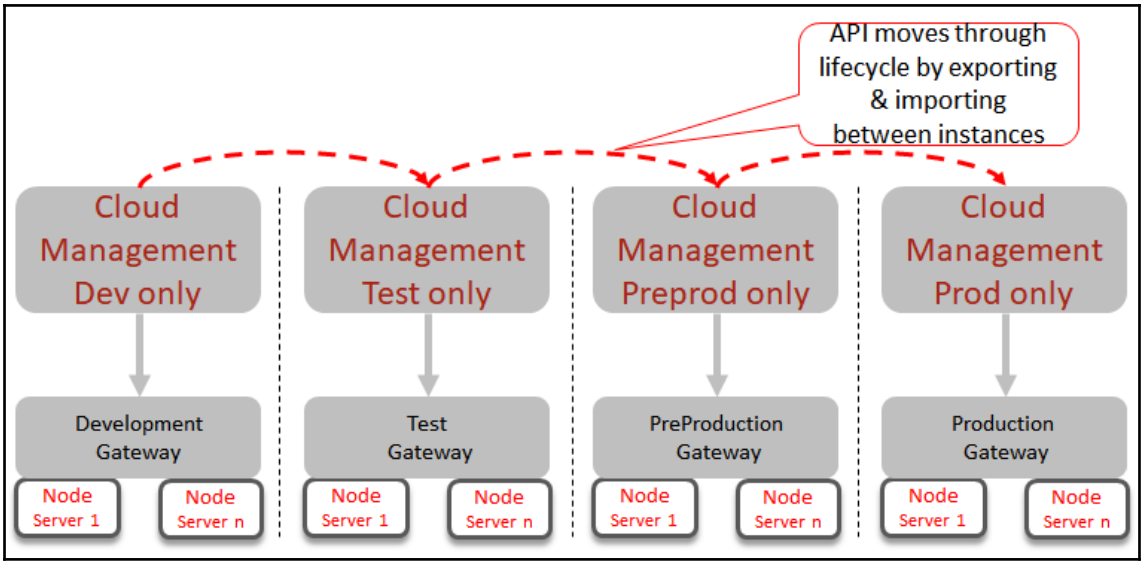


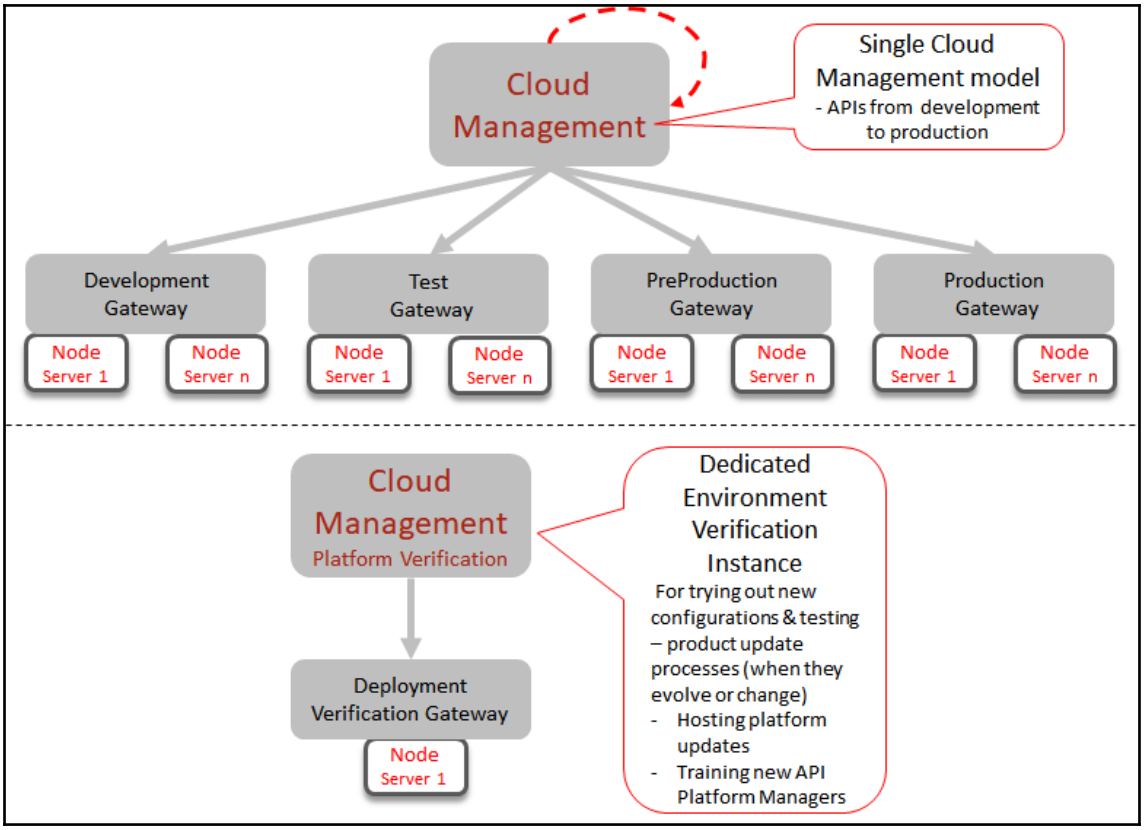


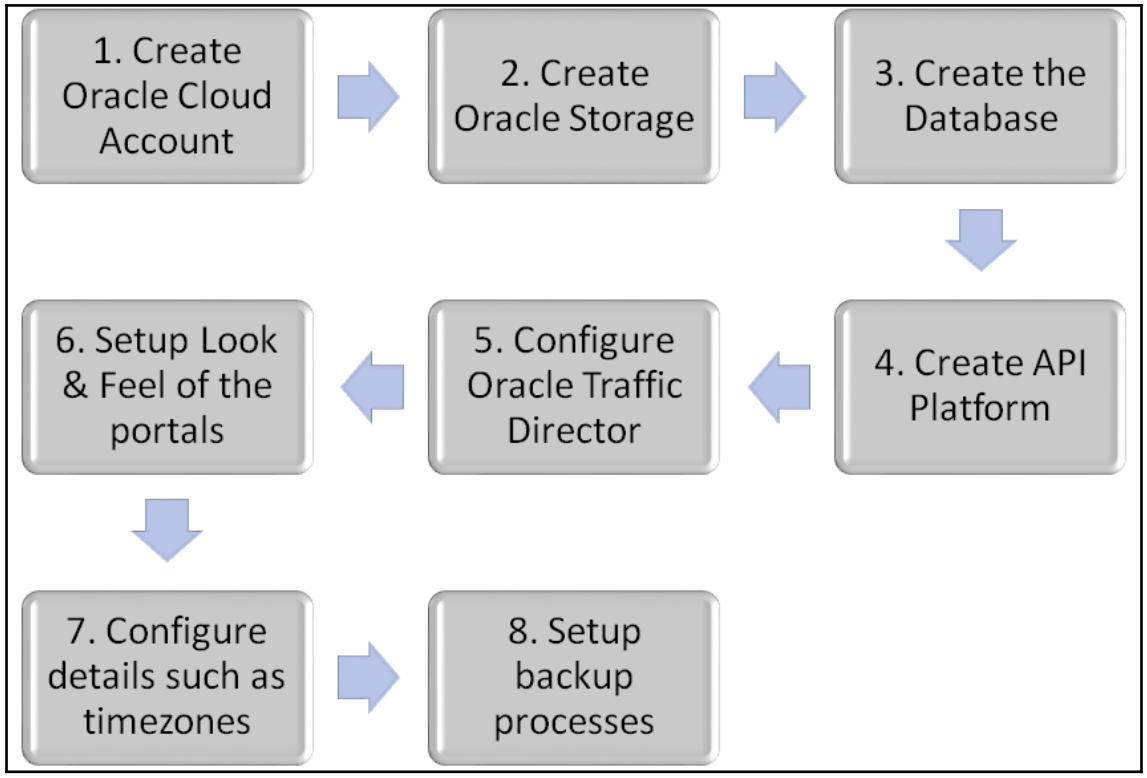

Node
Server 1
Data
Centre A
Node
Server n
Logical
Gateway
Data
Centre Z
Node
Server x
Logical Perspective in
Management Portal
Physical Deployment

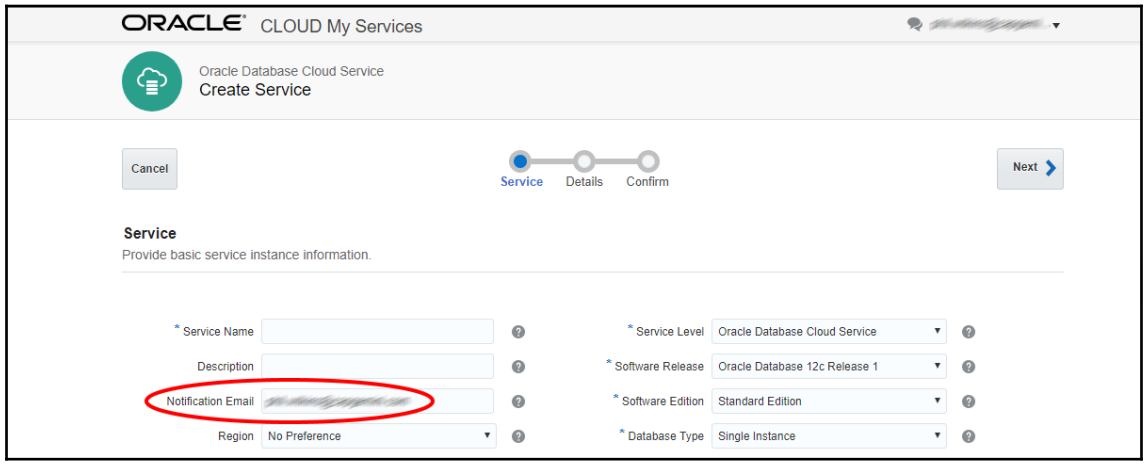

SaaS
SaaS
PaaS
iPaaS
External API Gateway
LG Cloud
External API Gateway
Load Balancer
Cloud Firewall
Identity as a Service
LG = Logical gateway
SP = Single purpose
IP = Identity provider
Business API
Customers / Retailers
Partners
Discover, Try, Use
ORACLE Cloud PaaS
API Platform
apiary
Developer Portal
Management Console
CDN (i.e. AKAMAI)
Sends stats
Pulls deployments
External Firewall
External Load Balancer
IP i.e. ADFS/LDAP
External API Gateway
External Logical Gateway
External API Gateway
Business API
Internet Proxy
Internal Firewall
Load Balancer
IP i.e. ADFS/LDAP
Internal API Gateway
Internal Logical Gateway
Internal API Gateway
Get endpoints
Registry
Publish & discover, manage, monitor APIs
Install, manage gateways, manage users & grants
API Designers & Developers
API Platform Admins
Load Balancer
Internal Apps e.g. ERP
Existing SOA Infrastructure
API Applications & Microservices
Register, de register, health check, etc
On-premises

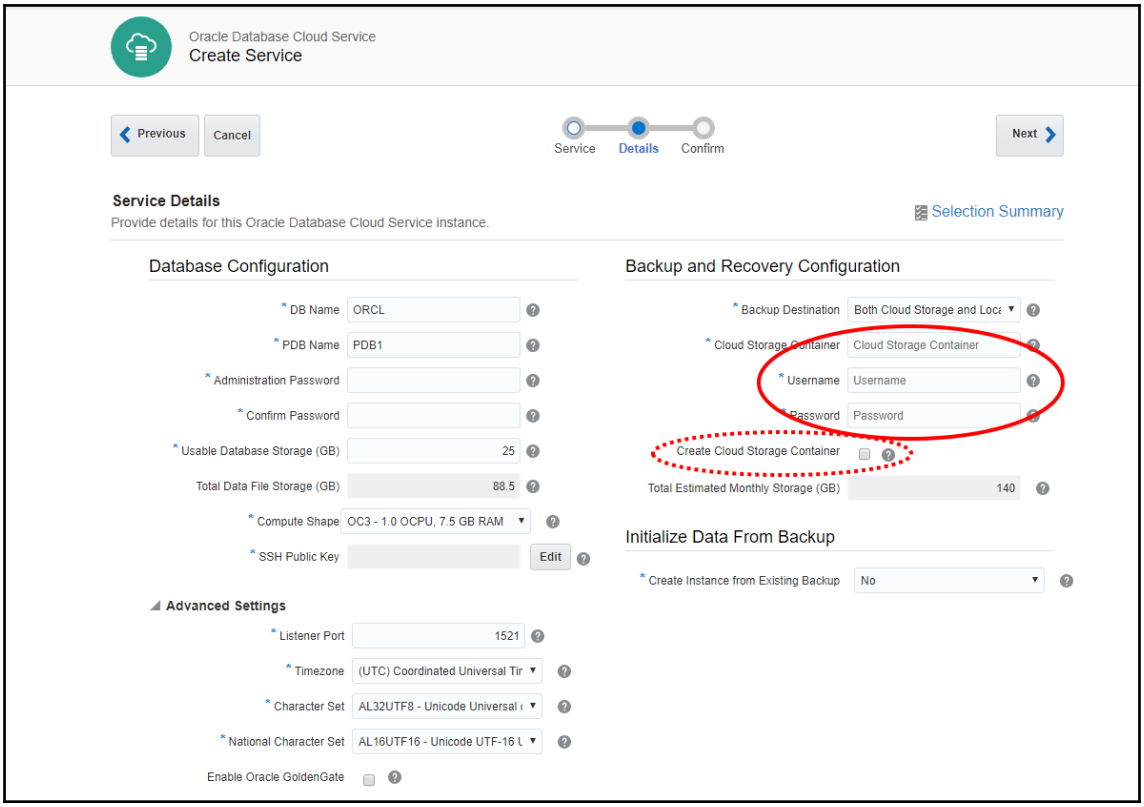

Cloud Management
API moves through development life cycle through configuration within the management tools
Development Gateway
Node Server 1
Node Server n
Test Gateway
Node Server 1
Node Server n
PreProduction Gateway
Node Server 1
Node Server n
Production Gateway
Node Server 1
Node Server n

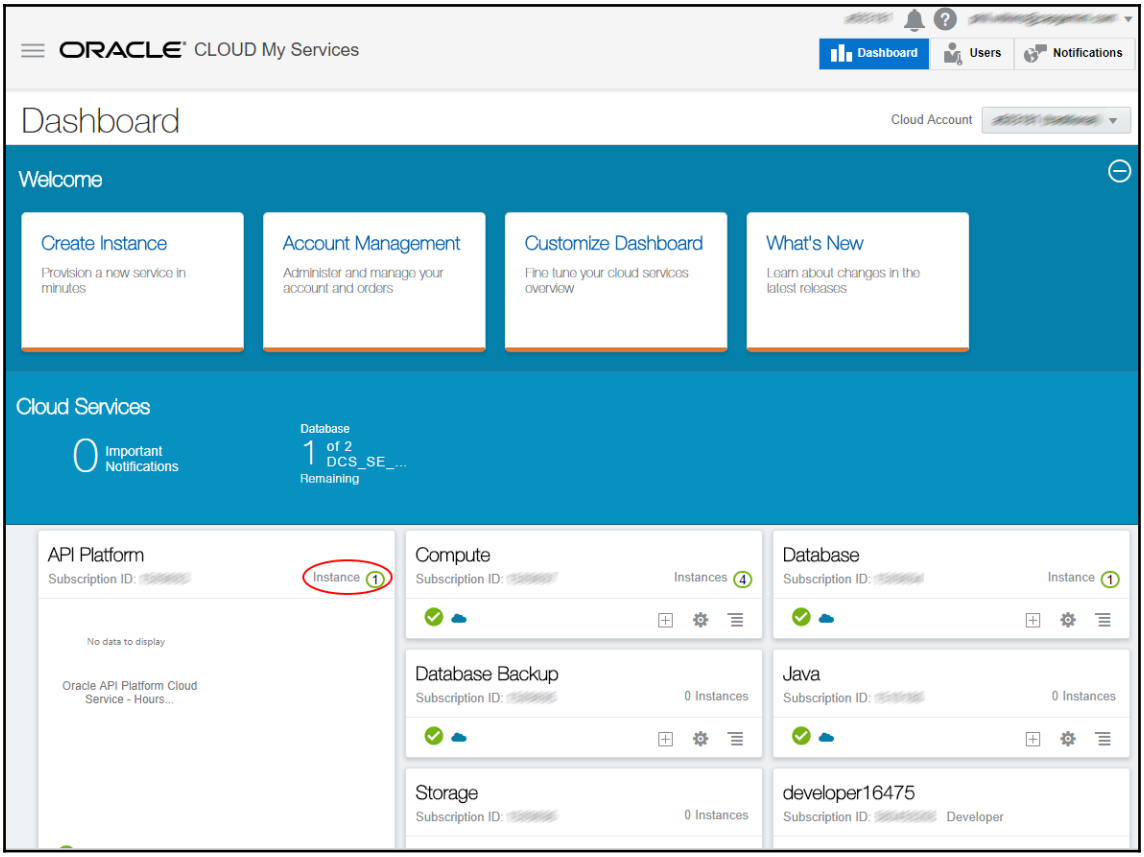

API moves through lifecycle by exporting & importing between instances
Cloud Management Dev only
Cloud Management Test only
Cloud Management Preprod only
Cloud Management Prod only
Development Gateway
Test Gateway
PreProduction Gateway
Production Gateway
Node Server 1
Node Server n
Node Server 1
Node Server n
Node Server 1
Node Server n
Node Server 1
Node Server n

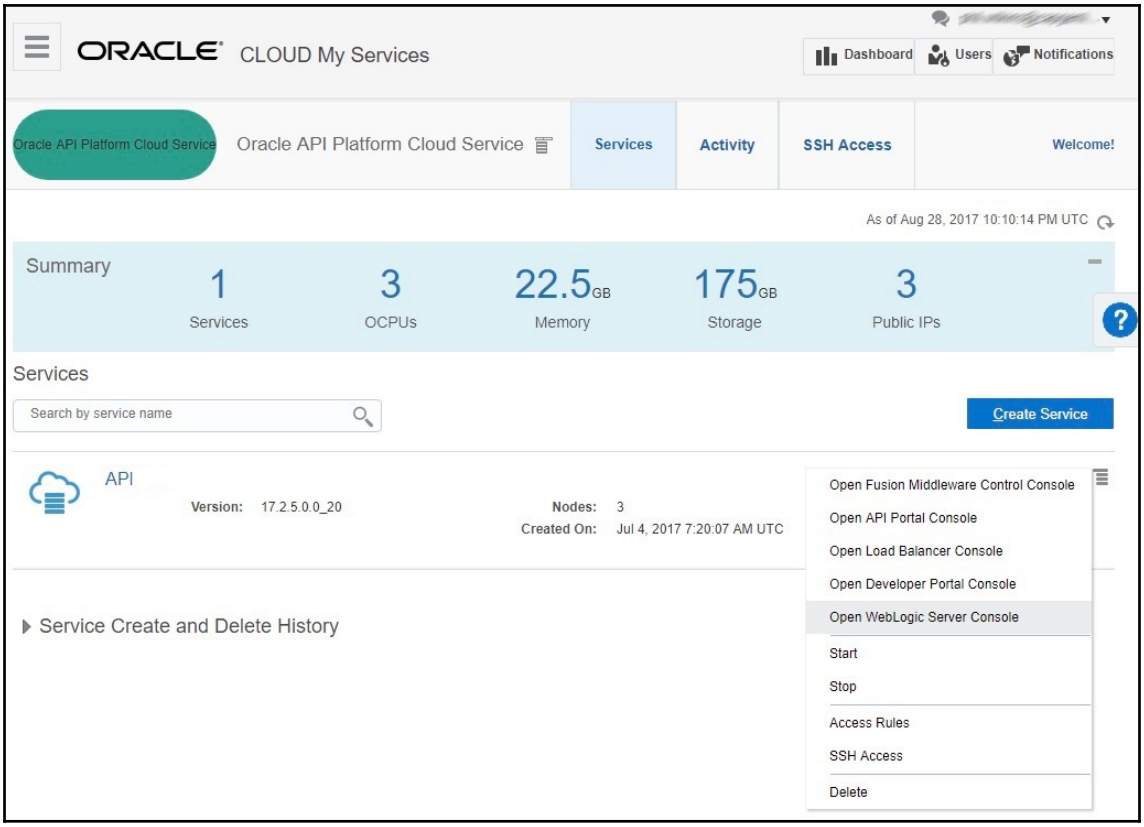

Cloud Management
Single Cloud Management model
- APIs from development to production
Development Gateway
Test Gateway
PreProduction Gateway
Production Gateway
Node Server 1
Node Server n
Cloud Management
Platform Verification
Deployment Verification Gateway
Node Server 1
Dedicated Environment Verification Instance
For trying out new configurations & testing – product update processes (when they evolve or change)
- Hosting platform updates
- Training new API Platform Managers

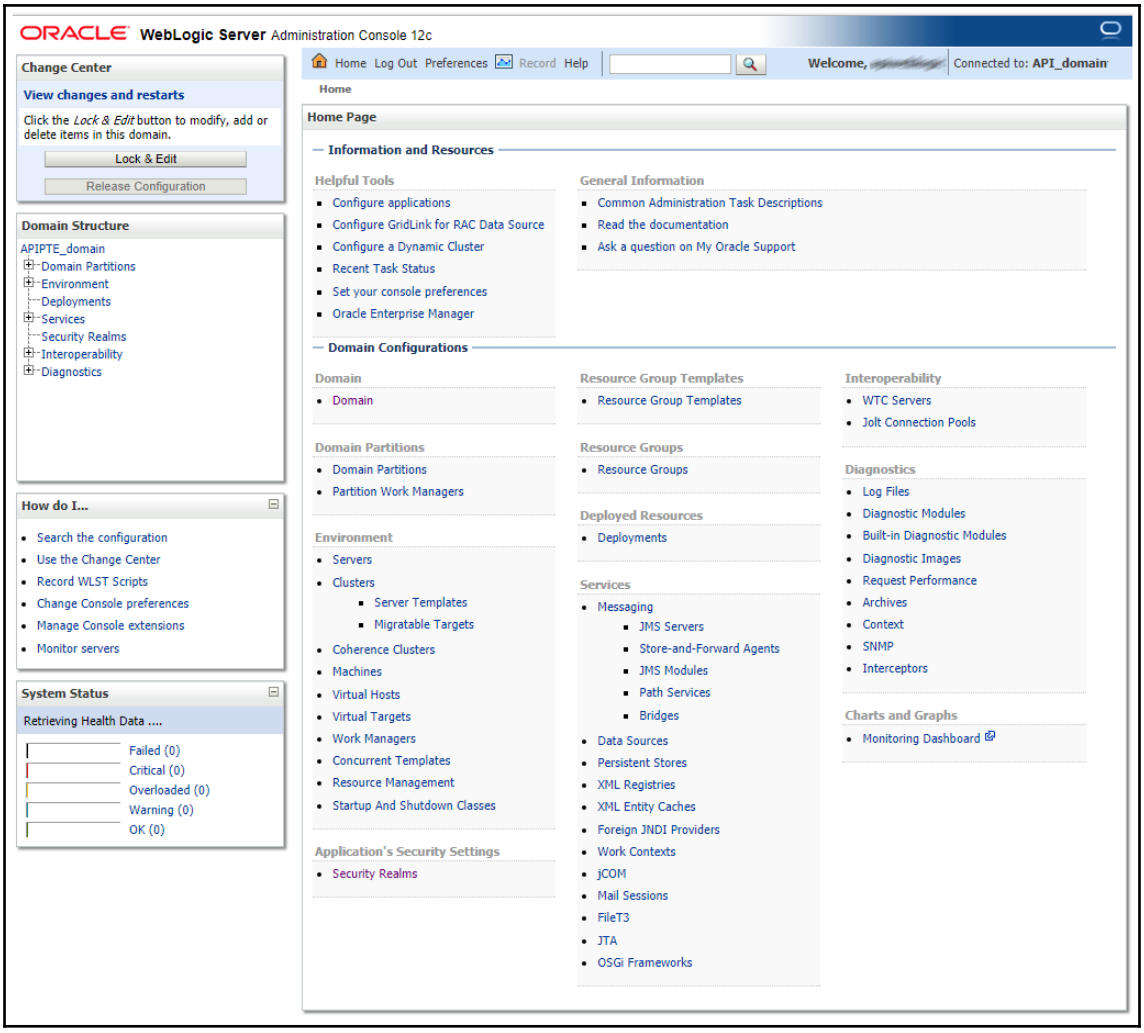

1. Create Oracle Cloud Account
2. Create Oracle Storage
3. Create the Database
4. Create API Platform
5. Configure Oracle Traffic Director
6. Setup Look & Feel of the portals
7. Configure details such as timezones
8. Setup backup processes

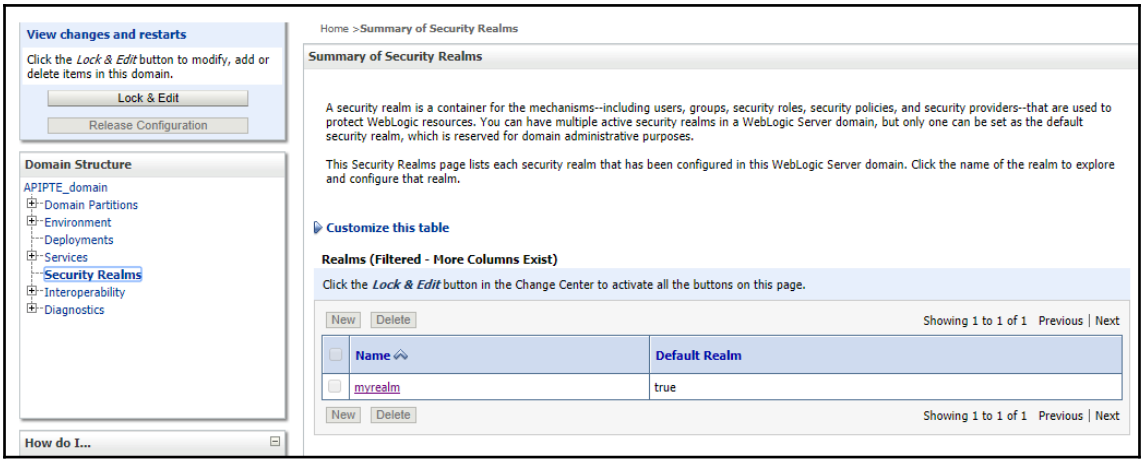

ORACLE CLOUD My Services
Oracle Database Cloud Service
Create Service
Cancel
Service
Details
Confirm
Next
Service
Provide basic service instance information.
* Service Name
Description
Notification Email
Region
No Preference
* Service Level
Oracle Database Cloud Service
* Software Release
Oracle Database 12c Release 1
* Software Edition
Standard Edition
* Database Type
Single Instance

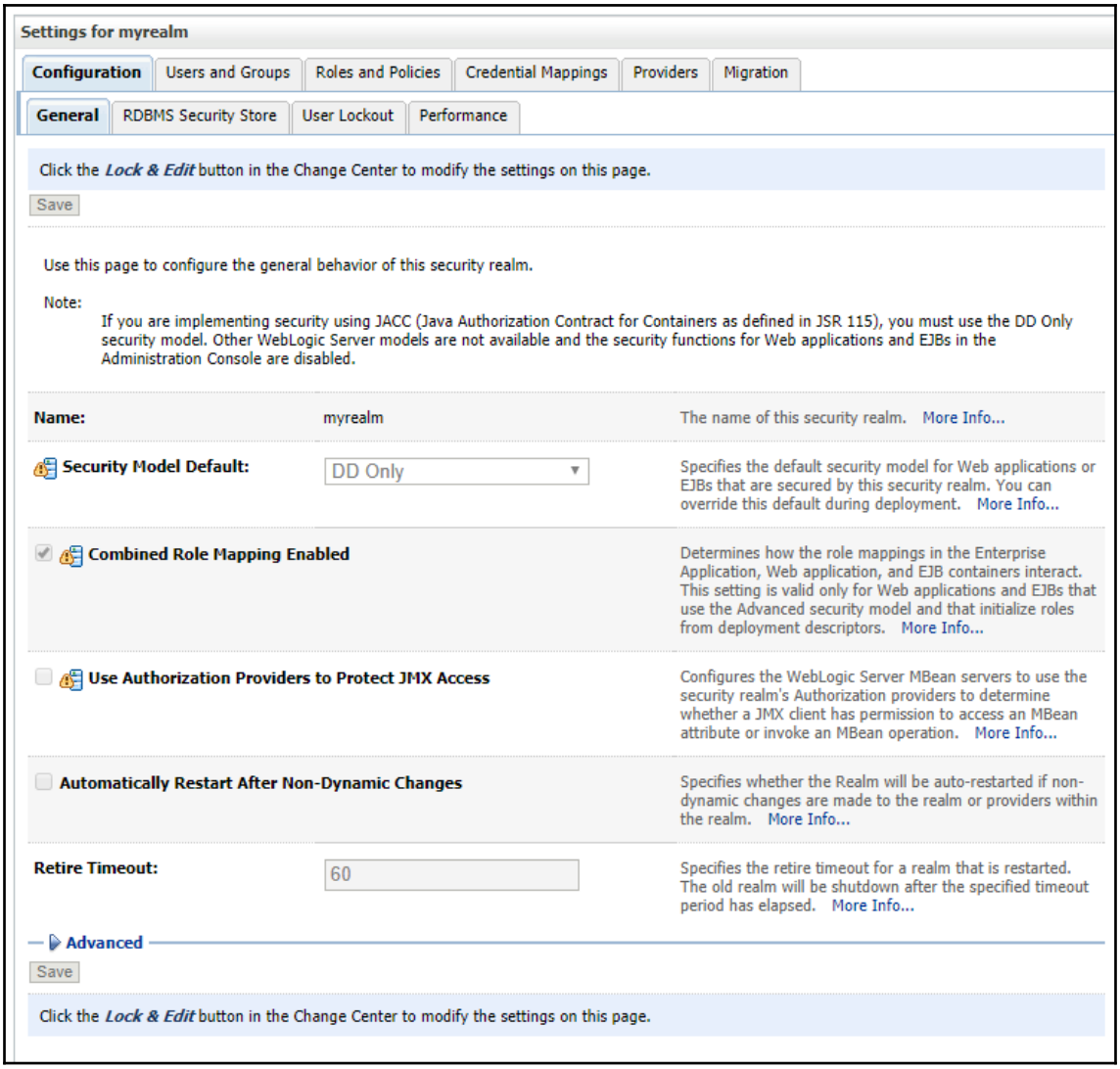

Oracle Database Cloud Service
Create Service
Previous
Cancel
Service
Details
Confirm
Next
Service Details
Provide details for this Oracle Database Cloud Service instance.
Selection Summary
Database Configuration
* DB Name
ORCL
* PDB Name
PDB1
* Administration Password
* Confirm Password
* Usable Database Storage (GB)
25
Total Data File Storage (GB)
88.5
* Compute Shape
OC3 - 1.0 OCPU, 7.5 GB RAM
* SSH Public Key
Edit
Advanced Settings
* Listener Port
1521
* Timezone
(UTC) Coordinated Universal Tir
* Character Set
AL32UTF8 - Unicode Universal
* National Character Set
AL16UTF16 - Unicode UTF-16 L
Enable Oracle GoldenGate
Backup and Recovery Configuration
* Backup Destination
Both Cloud Storage and Loca
* Cloud Storage Container
Cloud Storage Container
* Username
Username
* Password
Password
Create Cloud Storage Container
Total Estimated Monthly Storage (GB)
140
Initialize Data From Backup
* Create Instance from Existing Backup
No

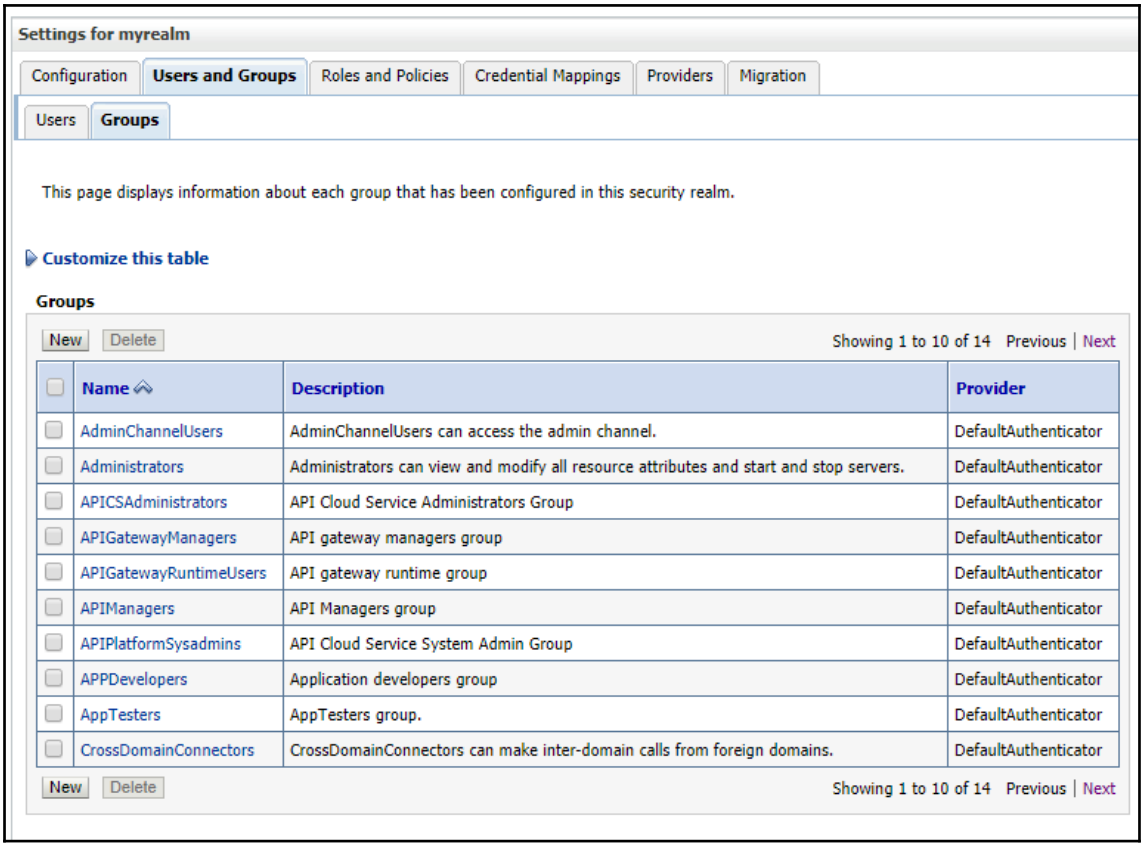

ORACLE CLOUD My Services
Dashboard
Users
Notifications
Dashboard
Cloud Account
Welcome
Create Instance
Provision a new service in minutes
Account Management
Administer and manage your account and orders
Customize Dashboard
Fine tune your cloud services overview
What's New
Learn about changes in the latest releases
Cloud Services
0 Important Notifications
Database
1 of 2 DCS_SE_...
Remaining
API Platform
Subscription ID:
Instance 1
No data to display
Oracle API Platform Cloud Service - Hours...
Compute
Subscription ID:
Instances 4
Database
Subscription ID:
Instance 1
Database Backup
Subscription ID:
0 Instances
Java
Subscription ID:
0 Instances
Storage
Subscription ID:
0 Instances
developer16475
Subscription ID:
Developer

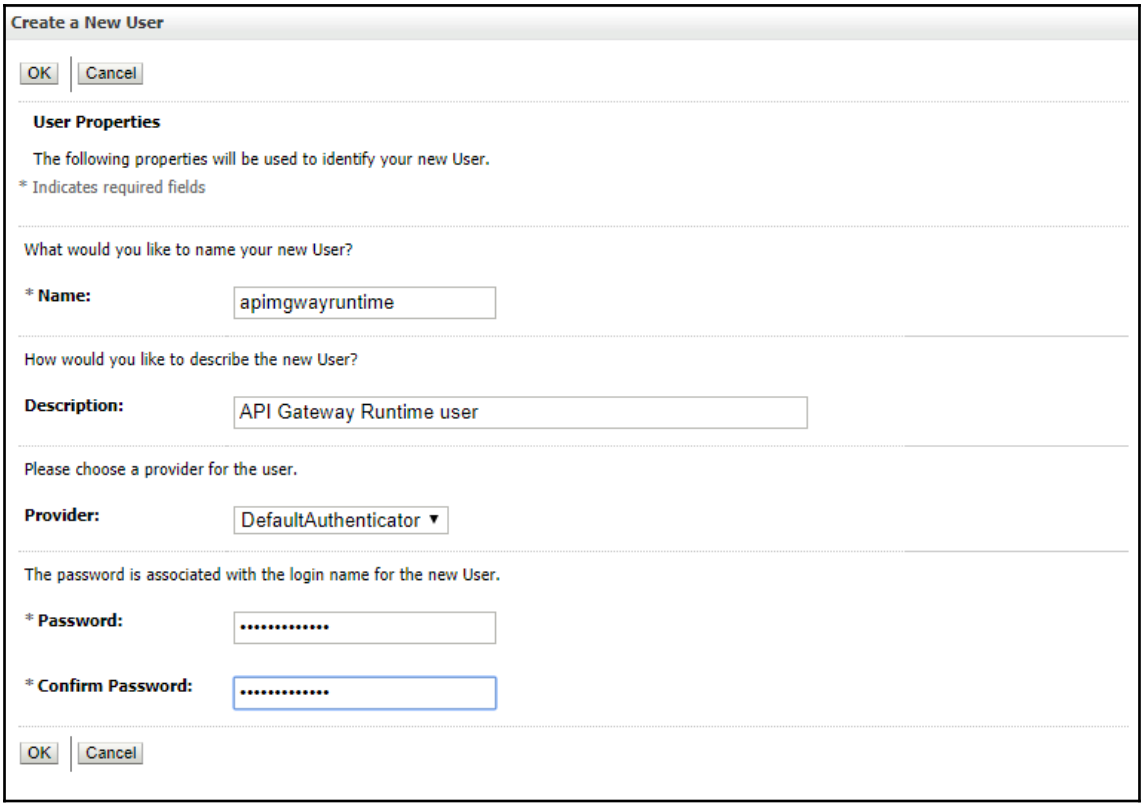

ORACLE CLOUD My Services
Dashboard
Users
Notifications
Oracle API Platform Cloud Service
Oracle API Platform Cloud Service
Services
Activity
SSH Access
Welcome!
As of Aug 28, 2017 10:10:14 PM UTC
Summary
1
Services
3
OCPUs
22.5GB
Memory
175GB
Storage
3
Public IPs
Services
Search by service name
Create Service
API
Version: 17.2.5.0.0_20
Nodes: 3
Created On: Jul 4, 2017 7:20:07 AM UTC
Service Create and Delete History
Open Fusion Middleware Control Console
Open API Portal Console
Open Load Balancer Console
Open Developer Portal Console
Open WebLogic Server Console
Start
Stop
Access Rules
SSH Access
Delete

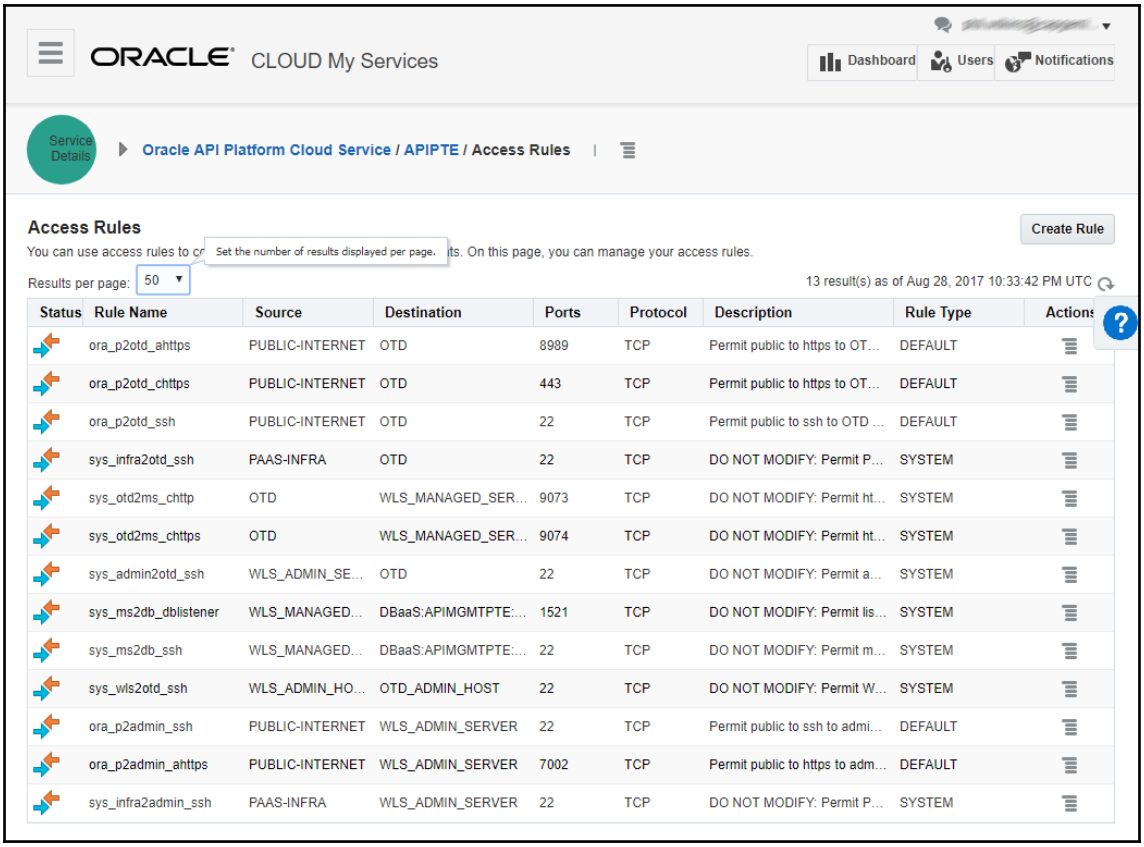

ORACLE WebLogic Server Administration Console 12c
Change Center
View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
APIPTE_domain
Domain Partitions
Environment
Deployments
Services
Security Realms
Interoperability
Diagnostics
How do I...
Search the configuration
Use the Change Center
Record WLST Scripts
Change Console preferences
Manage Console extensions
Monitor servers
System Status
Retrieving Health Data ....
Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (0)
Home Log Out Preferences Record Help
Welcome,
Connected to: API_domain
Home
Home Page
Information and Resources
Helpful Tools
Configure applications
Configure GridLink for RAC Data Source
Configure a Dynamic Cluster
Recent Task Status
Set your console preferences
Oracle Enterprise Manager
General Information
Common Administration Task Descriptions
Read the documentation
Ask a question on My Oracle Support
Domain Configurations
Domain
Domain
Domain Partitions
Domain Partitions
Partition Work Managers
Environment
Servers
Clusters
Server Templates
Migratable Targets
Coherence Clusters
Machines
Virtual Hosts
Virtual Targets
Work Managers
Concurrent Templates
Resource Management
Startup And Shutdown Classes
Application's Security Settings
Security Realms
Resource Group Templates
Resource Group Templates
Resource Groups
Resource Groups
Deployed Resources
Deployments
Services
Messaging
JMS Servers
Store-and-Forward Agents
JMS Modules
Path Services
Bridges
Data Sources
Persistent Stores
XML Registries
XML Entity Caches
Foreign JNDI Providers
Work Contexts
jCOM
Mail Sessions
FileT3
JTA
OSGi Frameworks
Interoperability
WTC Servers
Jolt Connection Pools
Diagnostics
Log Files
Diagnostic Modules
Built-in Diagnostic Modules
Diagnostic Images
Request Performance
Archives
Context
SNMP
Interceptors
Charts and Graphs
Monitoring Dashboard

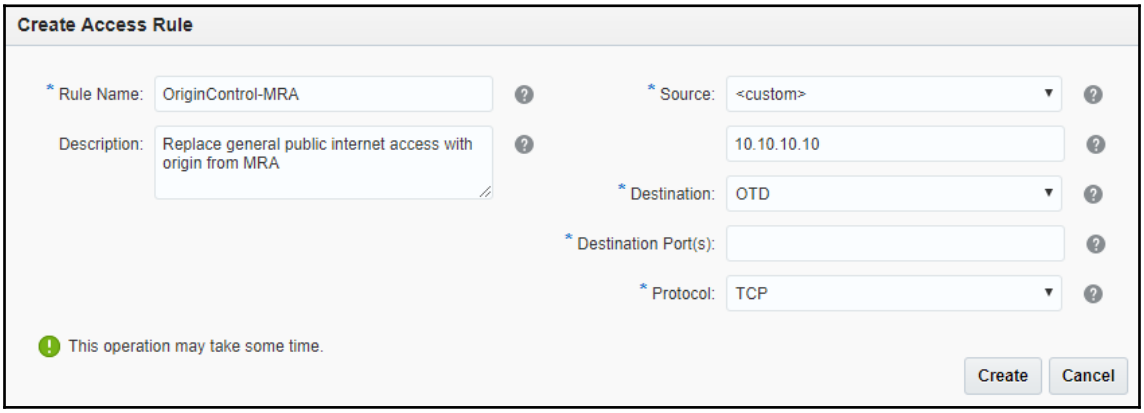

View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration
Domain Structure
APIPTE_domain
Domain Partitions
Environment
Deployments
Services
Security Realms
Interoperability
Diagnostics
How do I...
Home >Summary of Security Realms
Summary of Security Realms
A security realm is a container for the mechanisms--including users, groups, security roles, security policies, and security providers--that are used to protect WebLogic resources. You can have multiple active security realms in a WebLogic Server domain, but only one can be set as the default security realm, which is reserved for domain administrative purposes.
This Security Realms page lists each security realm that has been configured in this WebLogic Server domain. Click the name of the realm to explore and configure that realm.
Customize this table
Realms (Filtered - More Columns Exist)
Click the Lock & Edit button in the Change Center to activate all the buttons on this page.
New
Delete
Showing 1 to 1 of 1 Previous | Next
Name
Default Realm
myrealm
true
New
Delete
Showing 1 to 1 of 1 Previous | Next

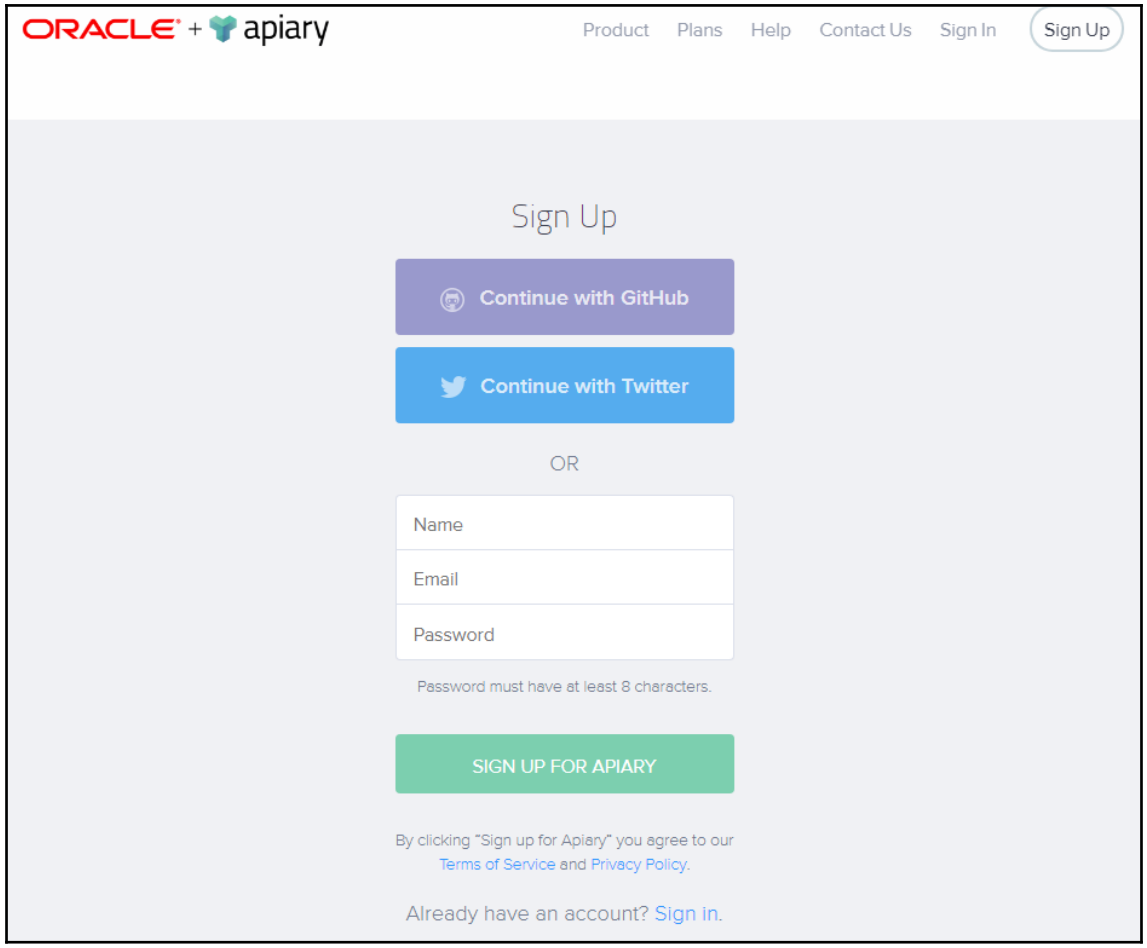

Settings for myrealm
Configuration
Users and Groups
Roles and Policies
Credential Mappings
Providers
Migration
General
RDBMS Security Store
User Lockout
Performance
Click the Lock & Edit button in the Change Center to modify the settings on this page.
Save
Use this page to configure the general behavior of this security realm.
Note:
If you are implementing security using JACC (Java Authorization Contract for Containers as defined in JSR 115), you must use the DD Only security model. Other WebLogic Server models are not available and the security functions for Web applications and EJBs in the Administration Console are disabled.
Name:
myrealm
The name of this security realm. More Info...
Security Model Default:
DD Only
Specifies the default security model for Web applications or EJBs that are secured by this security realm. You can override this default during deployment. More Info...
Combined Role Mapping Enabled
Determines how the role mappings in the Enterprise Application, Web application, and EJB containers interact. This setting is valid only for Web applications and EJBs that use the Advanced security model and that initialize roles from deployment descriptors. More Info...
Use Authorization Providers to Protect JMX Access
Configures the WebLogic Server MBean servers to use the security realm's Authorization providers to determine whether a JMX client has permission to access an MBean attribute or invoke an MBean operation. More Info...
Automatically Restart After Non-Dynamic Changes
Specifies whether the Realm will be auto-restarted if non-dynamic changes are made to the realm or providers within the realm. More Info...
Retire Timeout:
60
Specifies the retire timeout for a realm that is restarted. The old realm will be shutdown after the specified timeout period has elapsed. More Info...
Advanced
Save
Click the Lock & Edit button in the Change Center to modify the settings on this page.

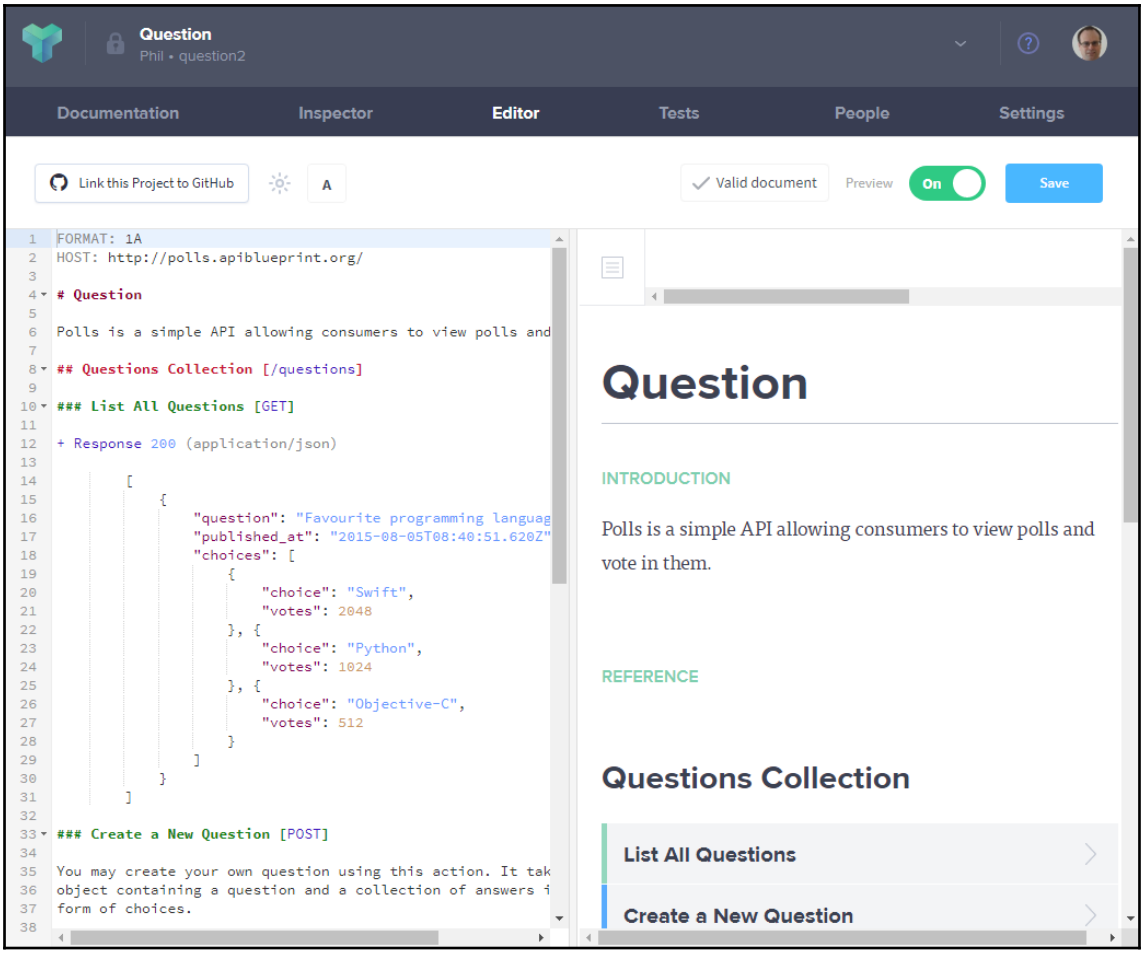

Settings for myrealm
Configuration
Users and Groups
Roles and Policies
Credential Mappings
Providers
Migration
Users
Groups
This page displays information about each group that has been configured in this security realm.
Customize this table
Groups
New
Delete
Showing 1 to 10 of 14 Previous | Next
Name
Description
Provider
AdminChannelUsers
AdminChannelUsers can access the admin channel.
DefaultAuthenticator
Administrators
Administrators can view and modify all resource attributes and start and stop servers.
DefaultAuthenticator
APICSAdministrators
API Cloud Service Administrators Group
DefaultAuthenticator
APIGatewayManagers
API gateway managers group
DefaultAuthenticator
APIGatewayRuntimeUsers
API gateway runtime group
DefaultAuthenticator
APIManagers
API Managers group
DefaultAuthenticator
APIPlatformSysadmins
API Cloud Service System Admin Group
DefaultAuthenticator
APPDevelopers
Application developers group
DefaultAuthenticator
AppTesters
AppTesters group.
DefaultAuthenticator
CrossDomainConnectors
CrossDomainConnectors can make inter-domain calls from foreign domains.
DefaultAuthenticator
New
Delete
Showing 1 to 10 of 14 Previous | Next

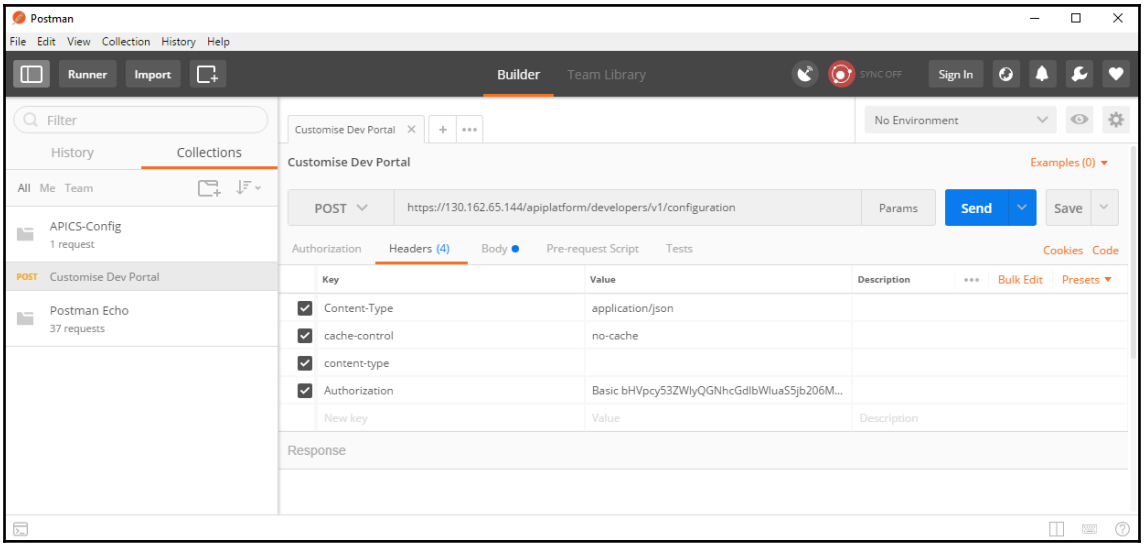

Create a New User
OK
Cancel
User Properties
The following properties will be used to identify your new User.
* Indicates required fields
What would you like to name your new User?
* Name:
apimgwayruntime
How would you like to describe the new User?
Description:
API Gateway Runtime user
Please choose a provider for the user.
Provider:
DefaultAuthenticator
The password is associated with the login name for the new User.
* Password:
* Confirm Password:
OK
Cancel

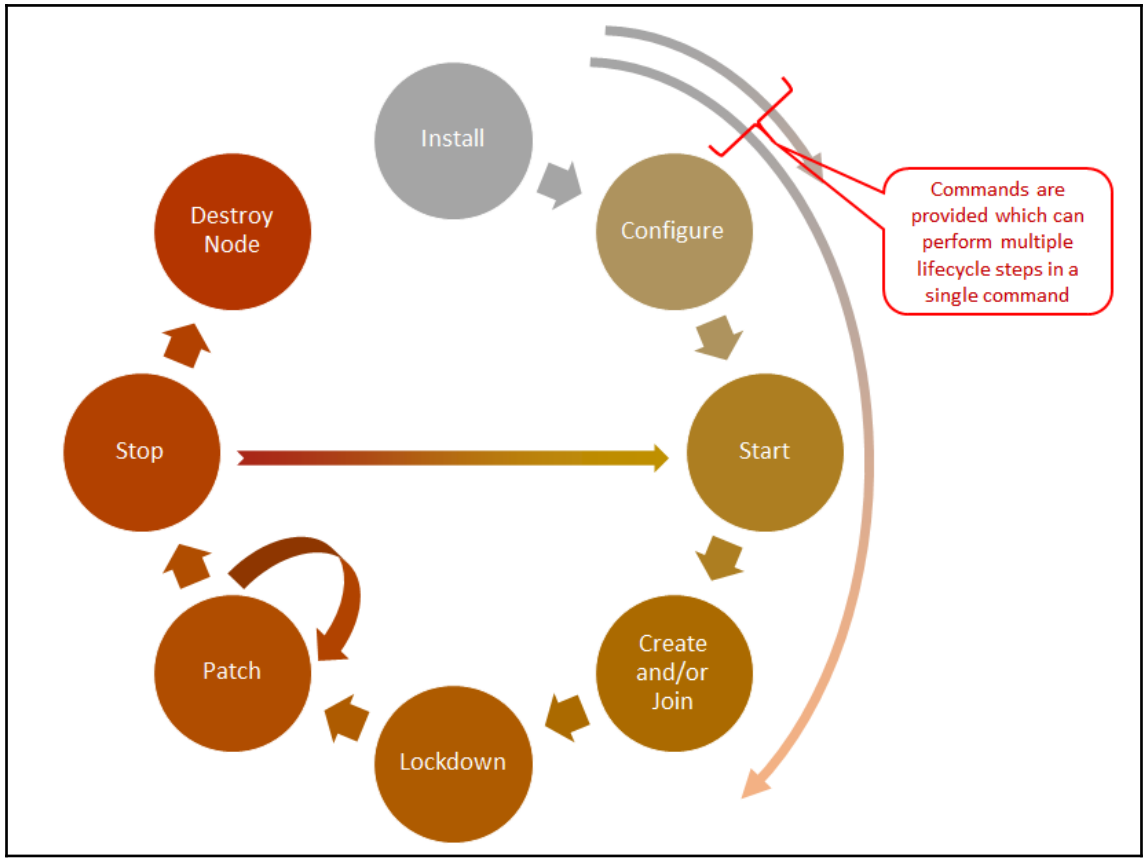

ORACLE CLOUD My Services
Dashboard
Users
Notifications
Service Details
Oracle API Platform Cloud Service / APIPTE / Access Rules
Access Rules
Create Rule
Set the number of results displayed per page.
Results per page: 50
13 result(s) as of Aug 28, 2017 10:33:42 PM UTC
Status | Rule Name | Source | Destination | Ports | Protocol | Description | Rule Type | Actions
ora_p2otd_ahttps | PUBLIC-INTERNET | OTD | 8989 | TCP | Permit public to https to OT... | DEFAULT
ora_p2otd_chttps | PUBLIC-INTERNET | OTD | 443 | TCP | Permit public to https to OT... | DEFAULT
ora_p2otd_ssh | PUBLIC-INTERNET | OTD | 22 | TCP | Permit public to ssh to OTD ... | DEFAULT
sys_infra2otd_ssh | PAAS-INFRA | OTD | 22 | TCP | DO NOT MODIFY: Permit P... | SYSTEM
sys_otd2ms_chttp | OTD | WLS_MANAGED_SER... | 9073 | TCP | DO NOT MODIFY: Permit ht... | SYSTEM
sys_otd2ms_chttps | OTD | WLS_MANAGED_SER... | 9074 | TCP | DO NOT MODIFY: Permit ht... | SYSTEM
sys_admin2otd_ssh | WLS_ADMIN_SE... | OTD | 22 | TCP | DO NOT MODIFY: Permit a... | SYSTEM
sys_ms2db_dblistener | WLS_MANAGED... | DBaaS:APIMGMTPTE:... | 1521 | TCP | DO NOT MODIFY: Permit lis... | SYSTEM
sys_ms2db_ssh | WLS_MANAGED... | DBaaS:APIMGMTPTE:... | 22 | TCP | DO NOT MODIFY: Permit m... | SYSTEM
sys_wls2otd_ssh | WLS_ADMIN_HO... | OTD_ADMIN_HOST | 22 | TCP | DO NOT MODIFY: Permit W... | SYSTEM
ora_p2admin_ssh | PUBLIC-INTERNET | WLS_ADMIN_SERVER | 22 | TCP | Permit public to ssh to admi... | DEFAULT
ora_p2admin_ahttps | PUBLIC-INTERNET | WLS_ADMIN_SERVER | 7002 | TCP | Permit public to https to adm... | DEFAULT
sys_infra2admin_ssh | PAAS-INFRA | WLS_ADMIN_SERVER | 22 | TCP | DO NOT MODIFY: Permit P... | SYSTEM

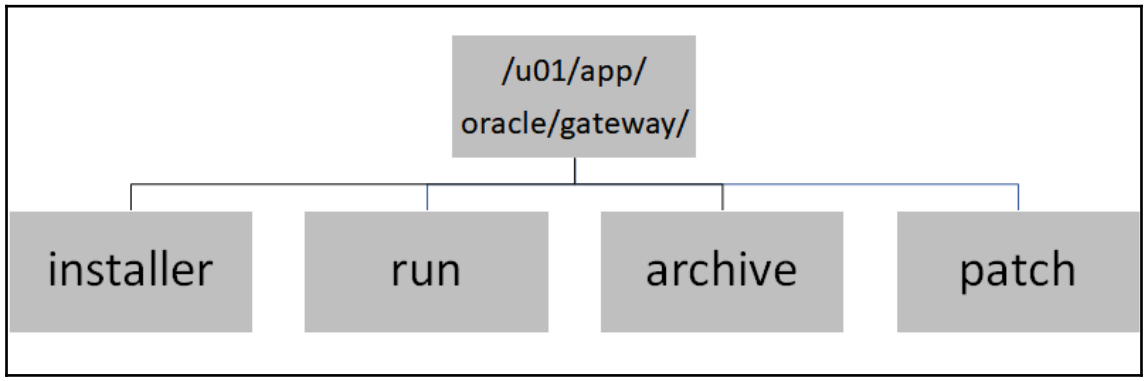

Create Access Rule
* Rule Name: OriginControl-MRA
Description: Replace general public internet access with origin from MRA
* Source: <custom>
10.10.10.10
* Destination: OTD
* Destination Port(s):
* Protocol: TCP
This operation may take some time.
Create
Cancel

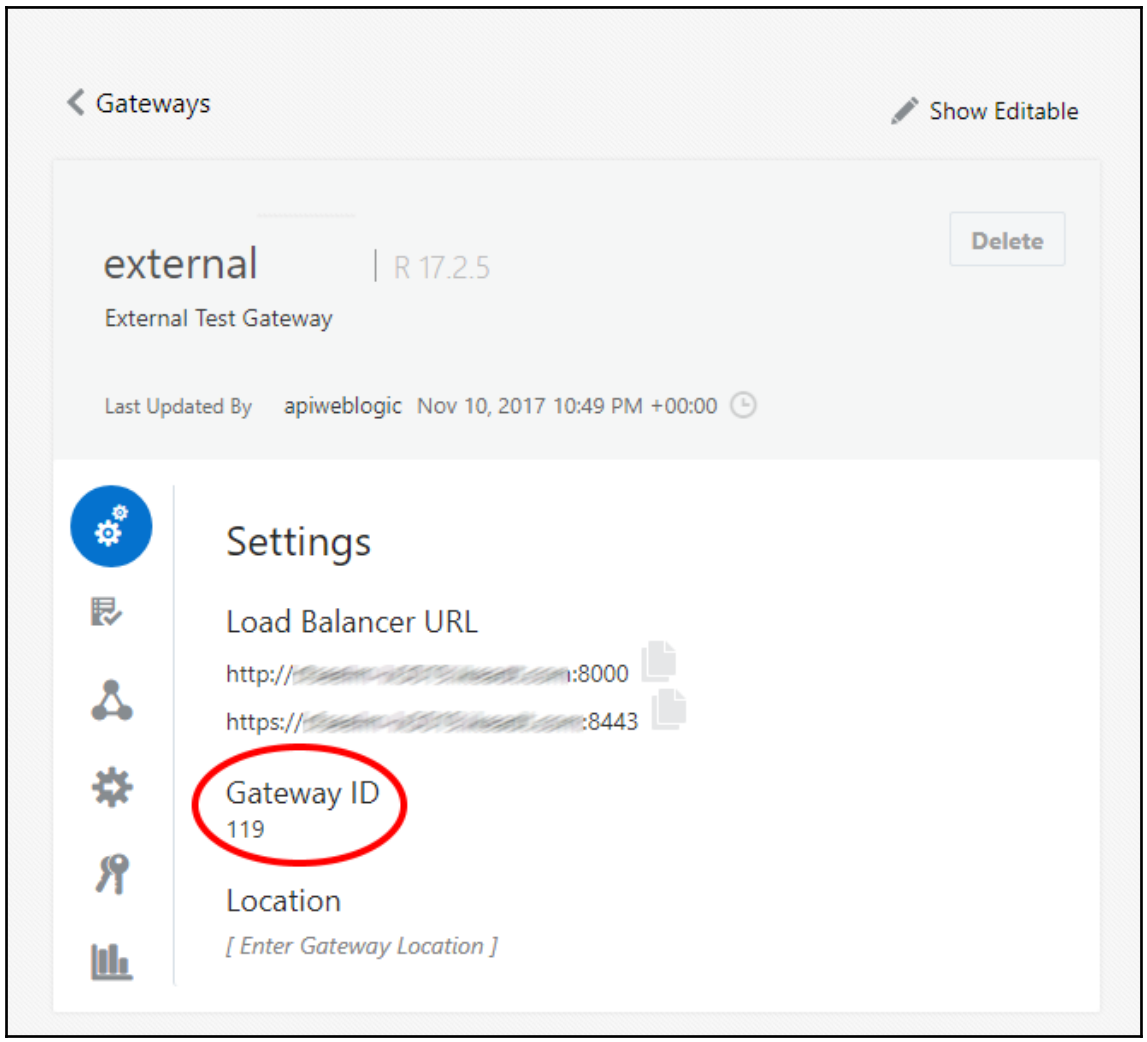

ORACLE + apiary
Product
Plans
Help
Contact Us
Sign In
Sign Up
Sign Up
Continue with GitHub
Continue with Twitter
OR
Name
Email
Password
Password must have at least 8 characters.
SIGN UP FOR APIARY
By clicking "Sign up for Apiary" you agree to our
Terms of Service and Privacy Policy.
Already have an account? Sign in.


Question
Phil • question2
Documentation
Inspector
Editor
Tests
People
Settings
Link this Project to GitHub
A
Valid document
Preview
On
Save
FORMAT: 1A
HOST: http://polls.apiblueprint.org/
Question
Polls is a simple API allowing consumers to view polls and
Questions Collection [/questions]
List All Questions [GET]
+ Response 200 (application/json)
[
{
"question": "Favourite programming languag
"published_at": "2015-08-05T08:40:51.620Z"
"choices": [
{
"choice": "Swift",
"votes": 2048
}, {
"choice": "Python",
"votes": 1024
}, {
"choice": "Objective-C",
"votes": 512
}
]
}
]
Create a New Question [POST]
You may create your own question using this action. It tak
object containing a question and a collection of answers i
form of choices.
Question
INTRODUCTION
Polls is a simple API allowing consumers to view polls and vote in them.
REFERENCE
Questions Collection
List All Questions
Create a New Question

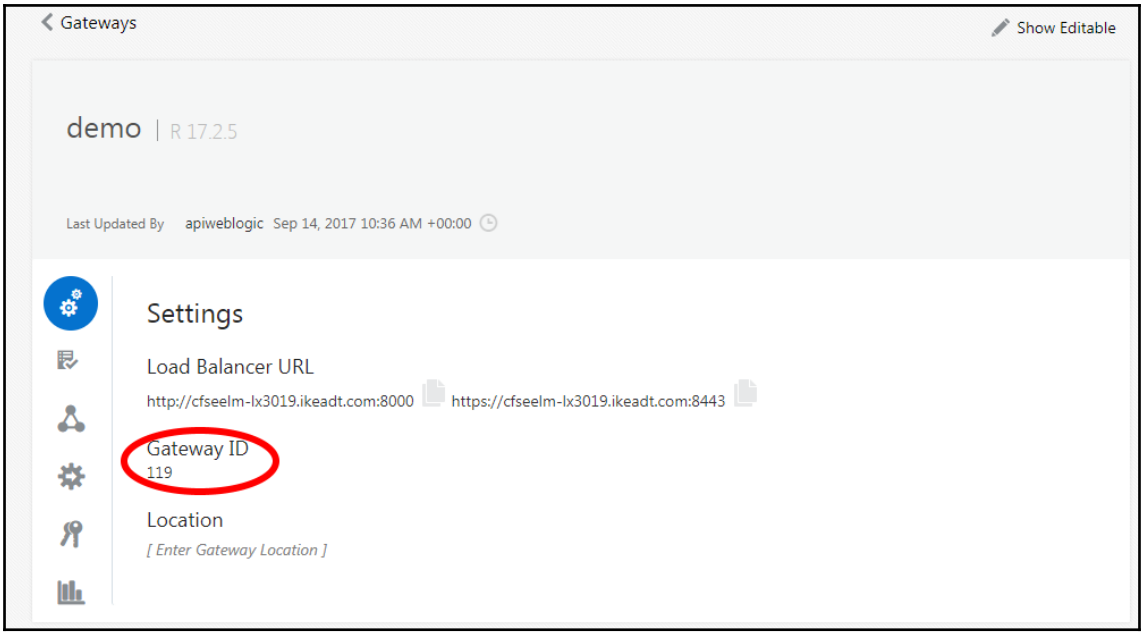

Postman
File Edit View Collection History Help
Runner
Import
Builder
Team Library
SYNC OFF
Sign In
Filter
History
Collections
All Me Team
APICS-Config
1 request
POST Customise Dev Portal
Postman Echo
37 requests
Customise Dev Portal
No Environment
Customise Dev Portal
Examples (0)
POST
https://130.162.65.144/apiplatform/developers/v1/configuration
Params
Send
Save
Authorization
Headers (4)
Body
Pre-request Script
Tests
Cookies
Code
Key
Value
Description
Bulk Edit
Presets
Content-Type
application/json
cache-control
no-cache
content-type
Authorization
Basic bHVpcy53ZWlyQGNhcGdlbWluaS5jb206M...
New key
Value
Description
Response


Install
Configure
Start
Create and/or Join
Lockdown
Patch
Stop
Destroy Node
Commands are provided which can perform multiple lifecycle steps in a single command

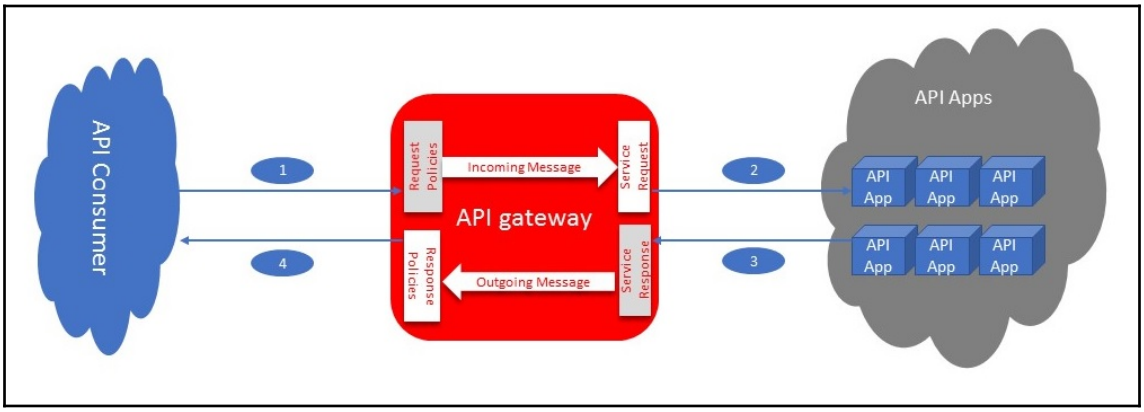

/u01/app/ oracle/gateway/
installer
run
archive
patch

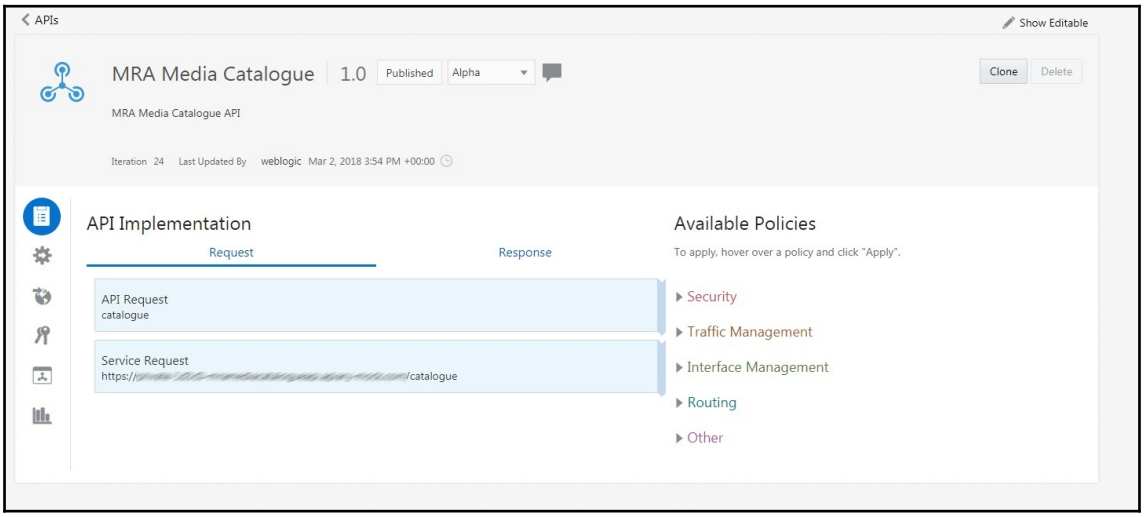

Gateways
Show Editable
external
R 17.2.5
External Test Gateway
Delete
Last Updated By
apiweblogic
Nov 10, 2017 10:49 PM +00:00
Settings
Load Balancer URL
http://
:8000
https://
:8443
Gateway ID
119
Location
[Enter Gateway Location]

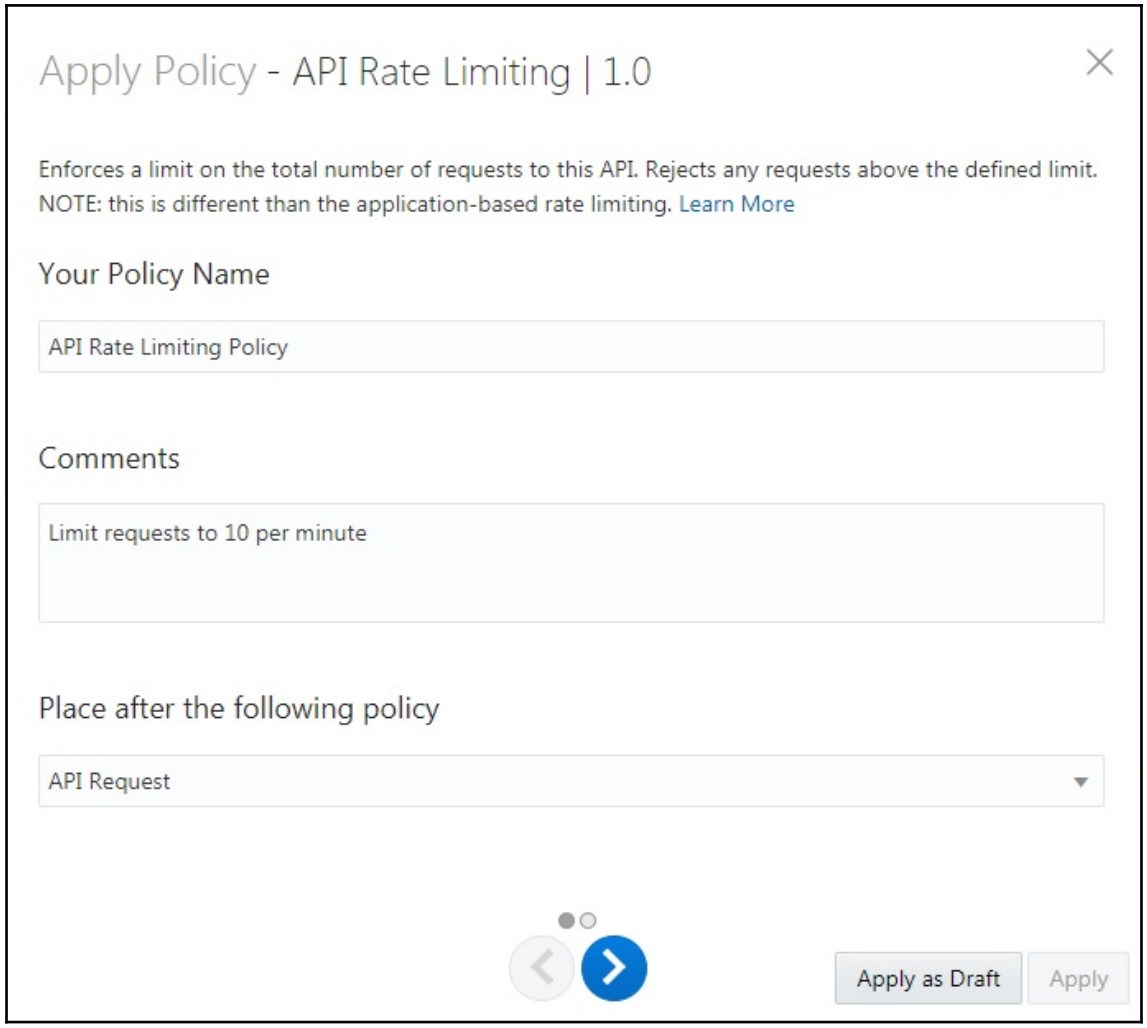
ORACLE
API Platform Cloud - Management Portal
APIs
Applications
Gateways
Platform Settings
Gateways
Search By Name
Newest
Download Gateway Installer

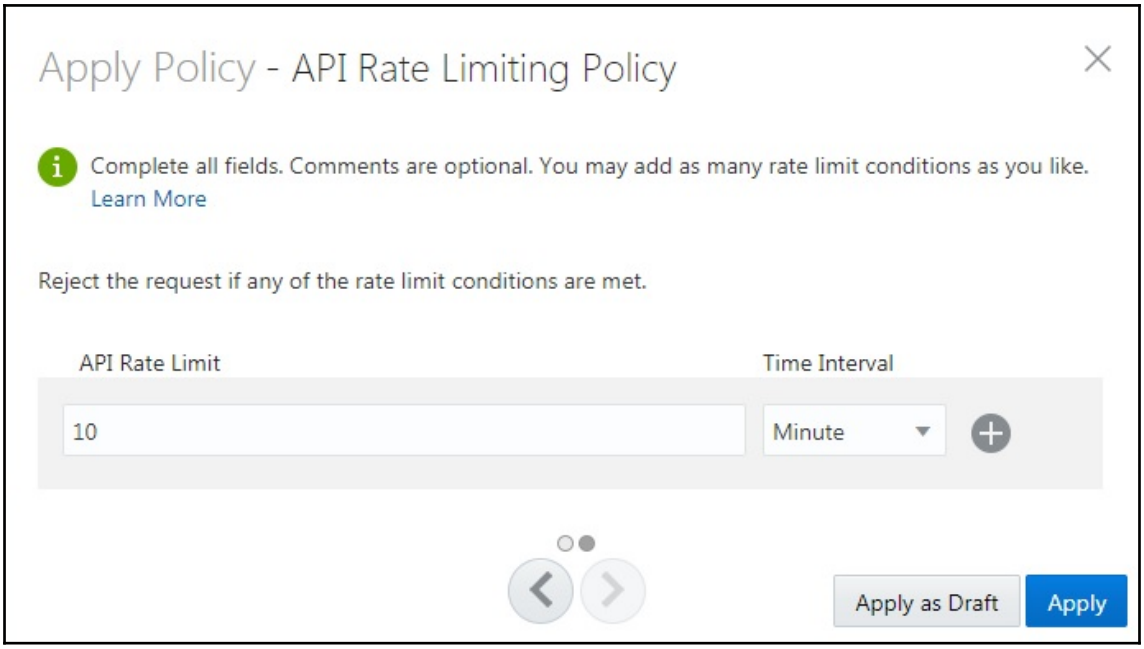

Gateways
Show Editable
demo | R 17.2.5
Last Updated By apiweblogic Sep 14, 2017 10:36 AM +00:00
Settings
Load Balancer URL
http://cfseelm-lx3019.ikeadt.com:8000 https://cfseelm-lx3019.ikeadt.com:8443
Gateway ID
119
Location
[Enter Gateway Location]

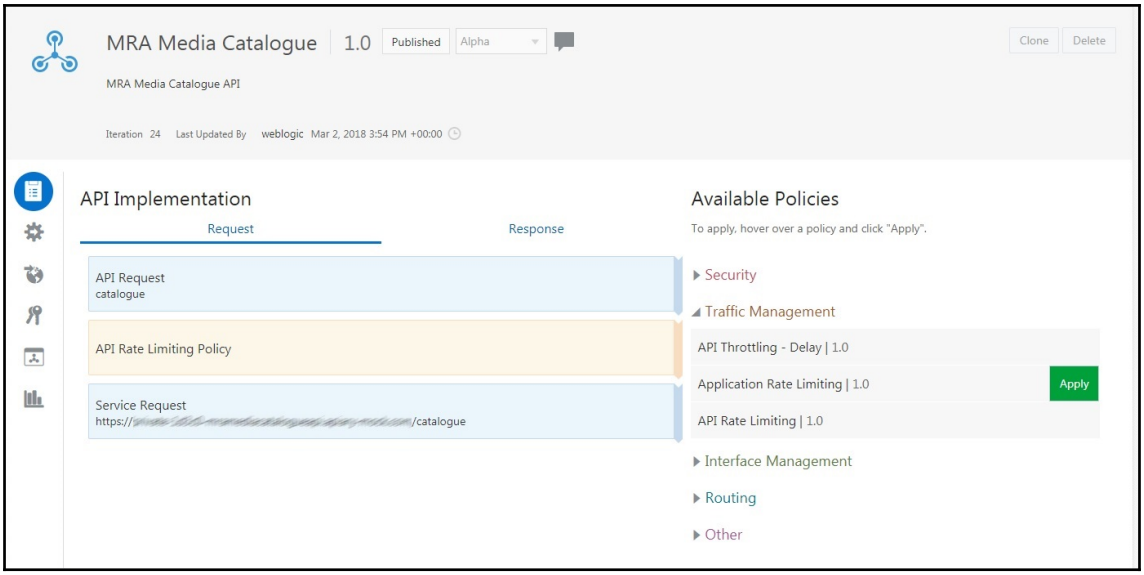
Chapter 6: Defining Policies for APIs

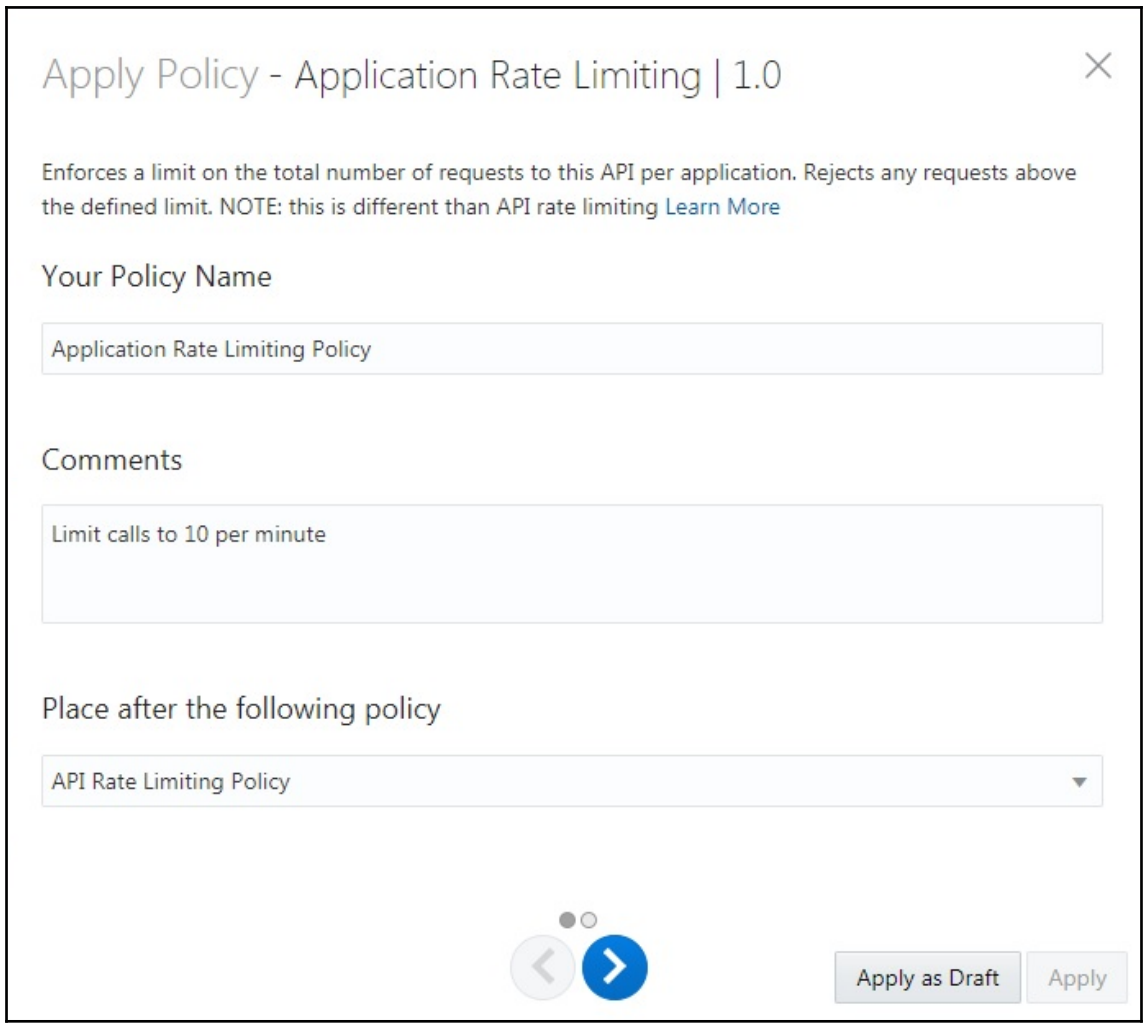


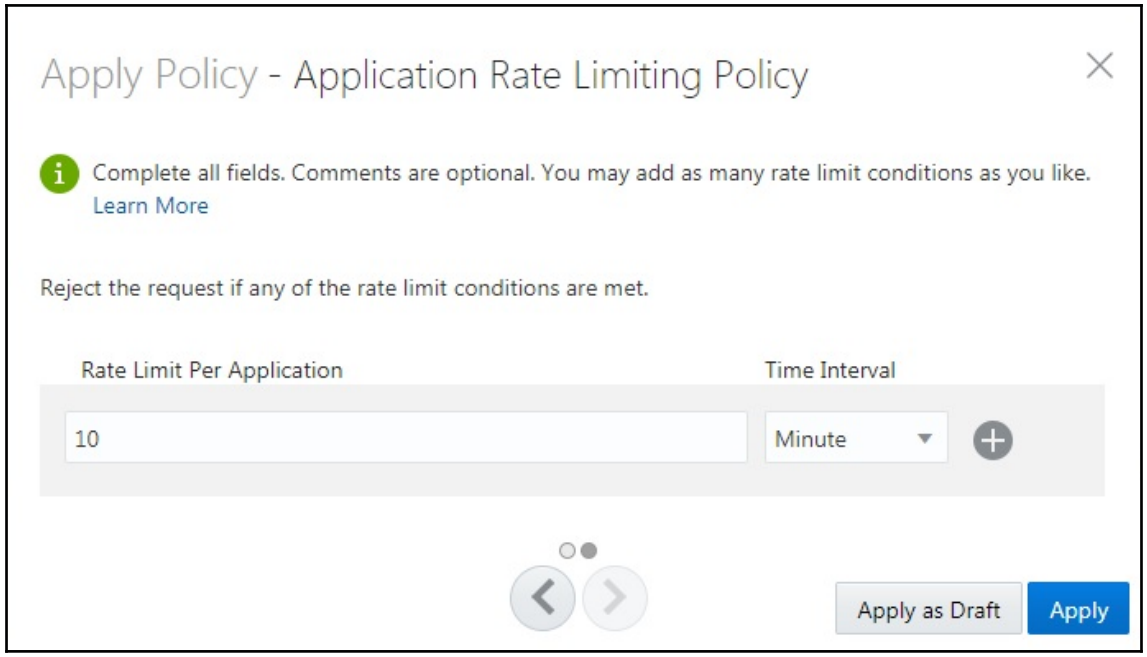


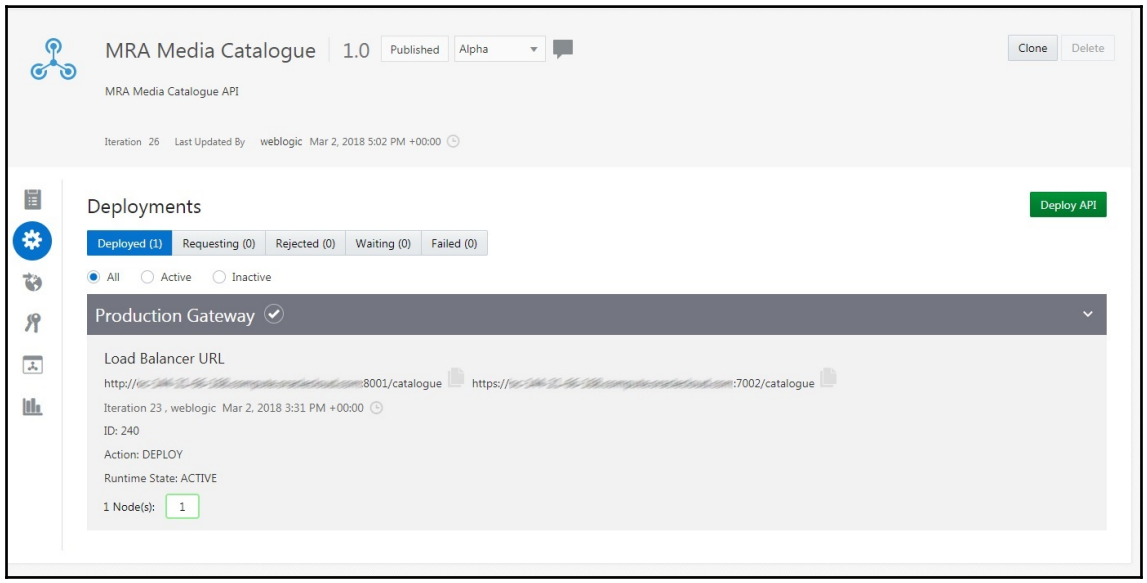

Apply Policy - API Rate Limiting | 1.0
Enforces a limit on the total number of requests to this API. Rejects any requests above the defined limit.
NOTE: this is different than the application-based rate limiting. Learn More
Your Policy Name
API Rate Limiting Policy
Comments
Limit requests to 10 per minute
Place after the following policy
API Request
Apply as Draft
Apply

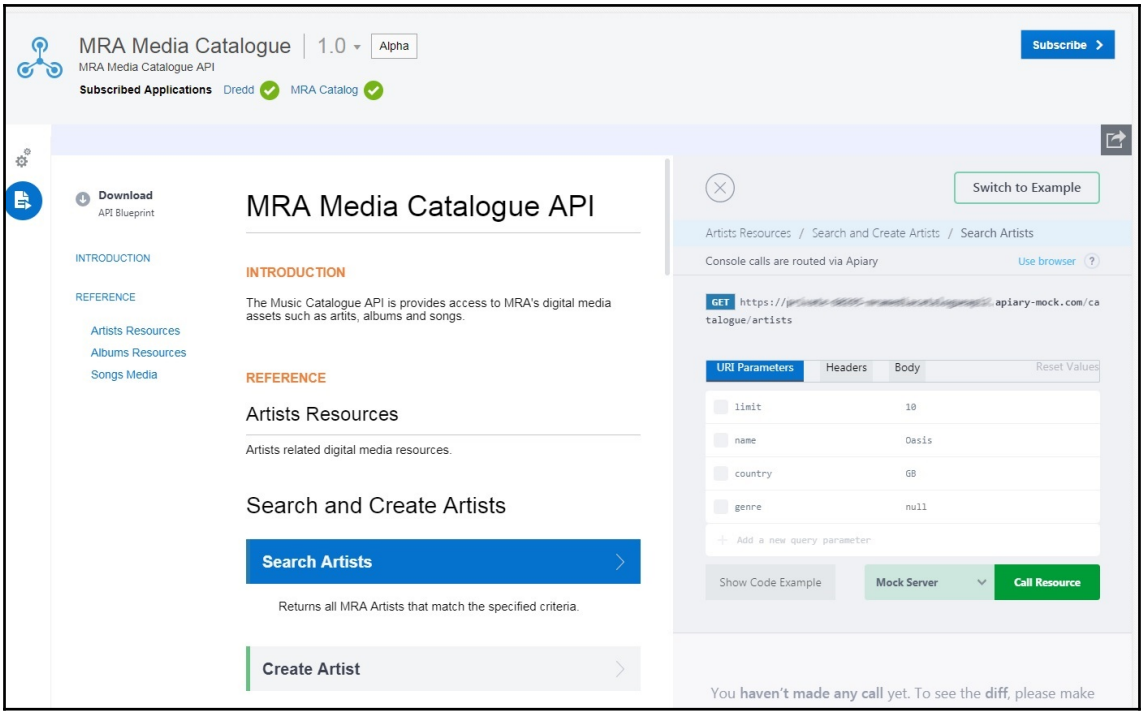

Apply Policy - API Rate Limiting Policy
Complete all fields. Comments are optional. You may add as many rate limit conditions as you like.
Learn More
Reject the request if any of the rate limit conditions are met.
API Rate Limit
Time Interval
10
Minute
Apply as Draft
Apply


MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 24
Last Updated By
weblogic
Mar 2, 2018 3:54 PM +00:00
API Implementation
Request
Response
API Request
catalogue
API Rate Limiting Policy
Service Request
https://
/catalogue
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
API Throttling - Delay | 1.0
Application Rate Limiting | 1.0
Apply
API Rate Limiting | 1.0
Interface Management
Routing
Other


Apply Policy - Application Rate Limiting | 1.0
Enforces a limit on the total number of requests to this API per application. Rejects any requests above the defined limit. NOTE: this is different than API rate limiting Learn More
Your Policy Name
Application Rate Limiting Policy
Comments
Limit calls to 10 per minute
Place after the following policy
API Rate Limiting Policy
Apply as Draft
Apply

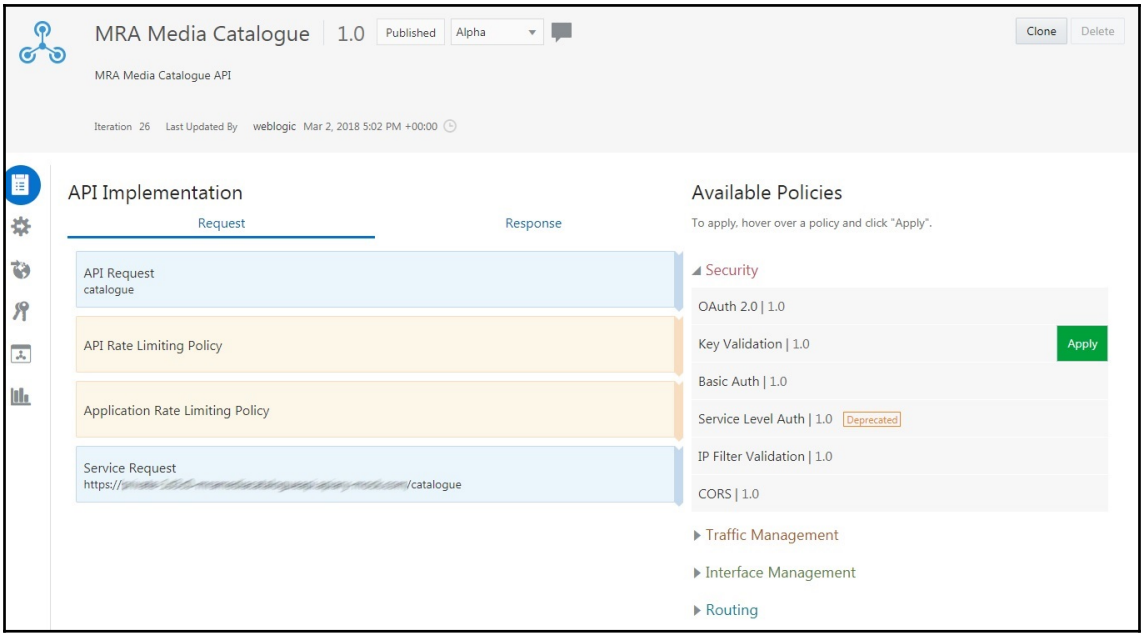

Apply Policy - Application Rate Limiting Policy
Complete all fields. Comments are optional. You may add as many rate limit conditions as you like.
Learn More
Reject the request if any of the rate limit conditions are met.
Rate Limit Per Application
Time Interval
10
Minute
Apply as Draft
Apply

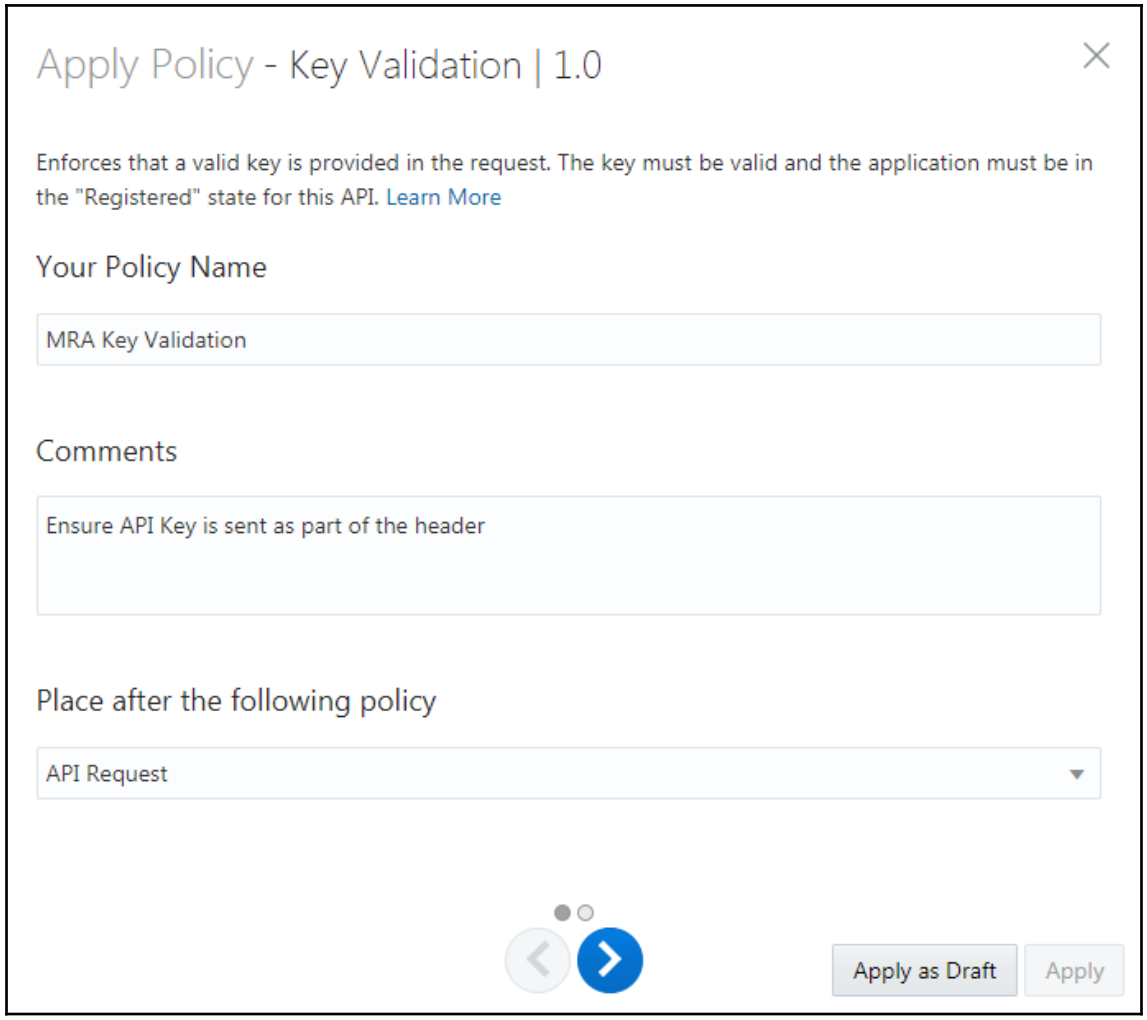

MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 26
Last Updated By
weblogic
Mar 2, 2018 5:02 PM +00:00
Deployments
Deploy API
Deployed (1)
Requesting (0)
Rejected (0)
Waiting (0)
Failed (0)
All
Active
Inactive
Production Gateway
Load Balancer URL
http://
8001/catalogue
https://
:7002/catalogue
Iteration 23 , weblogic Mar 2, 2018 3:31 PM +00:00
ID: 240
Action: DEPLOY
Runtime State: ACTIVE
1 Node(s):
1

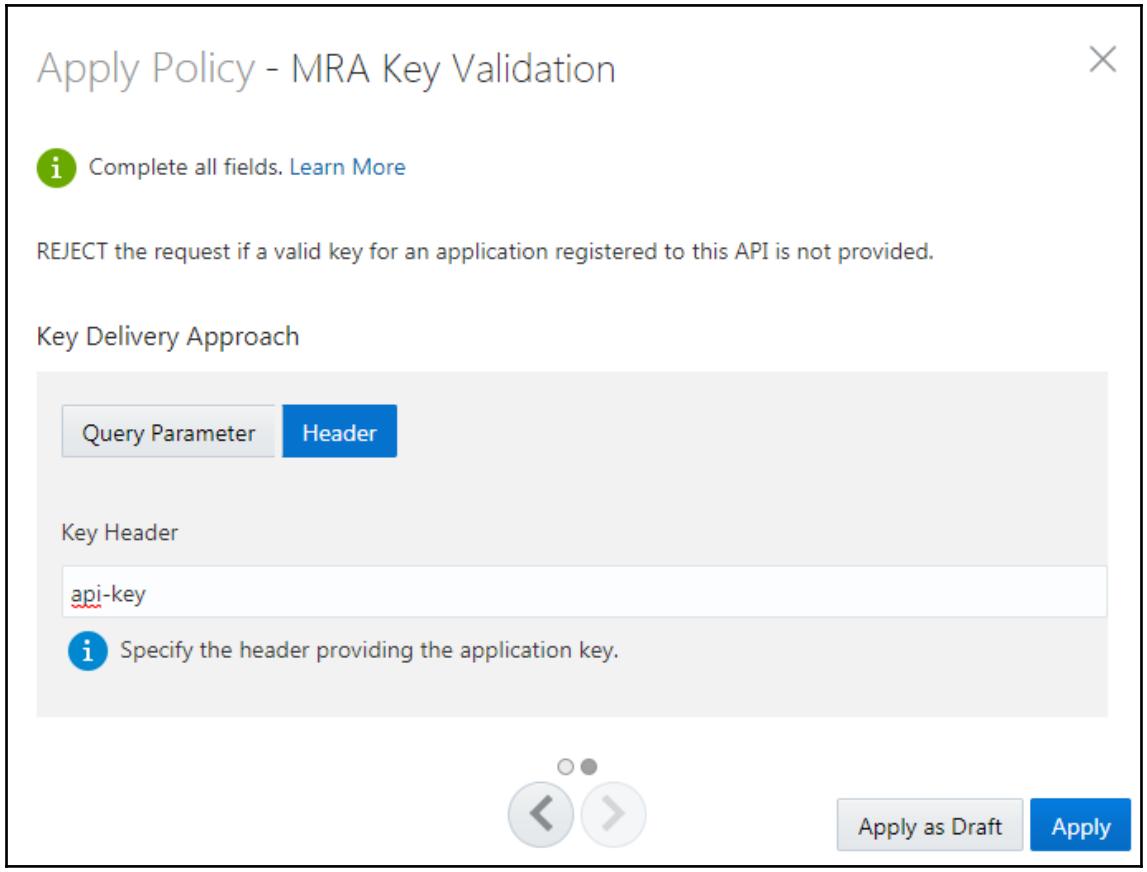

MRA Media Catalogue
1.0
Alpha
MRA Media Catalogue API
Subscribed Applications
Dredd
MRA Catalog
Subscribe
Download
API Blueprint
INTRODUCTION
REFERENCE
Artists Resources
Albums Resources
Songs Media
MRA Media Catalogue API
INTRODUCTION
The Music Catalogue API is provides access to MRA's digital media assets such as artits, albums and songs.
REFERENCE
Artists Resources
Artists related digital media resources.
Search and Create Artists
Search Artists
Returns all MRA Artists that match the specified criteria.
Create Artist
Switch to Example
Artists Resources / Search and Create Artists / Search Artists
Console calls are routed via Apiary
Use browser
GET
apiary-mock.com/catalogue/artists
URI Parameters
Headers
Body
Reset Values
limit
10
name
Oasis
country
GB
genre
null
Add a new query parameter
Show Code Example
Mock Server
Call Resource
You haven't made any call yet. To see the diff, please make

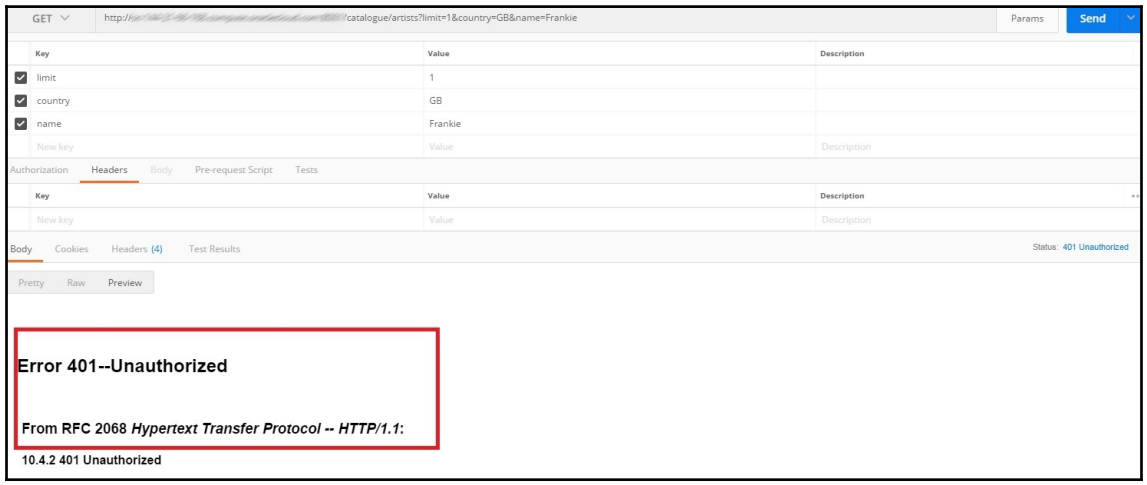
http://oc-144-21-66-1
GET
http://
/catalogue/artists?limit=1&country=GB&nam
Key
Value
limit
1
country
GB
name
Oasis

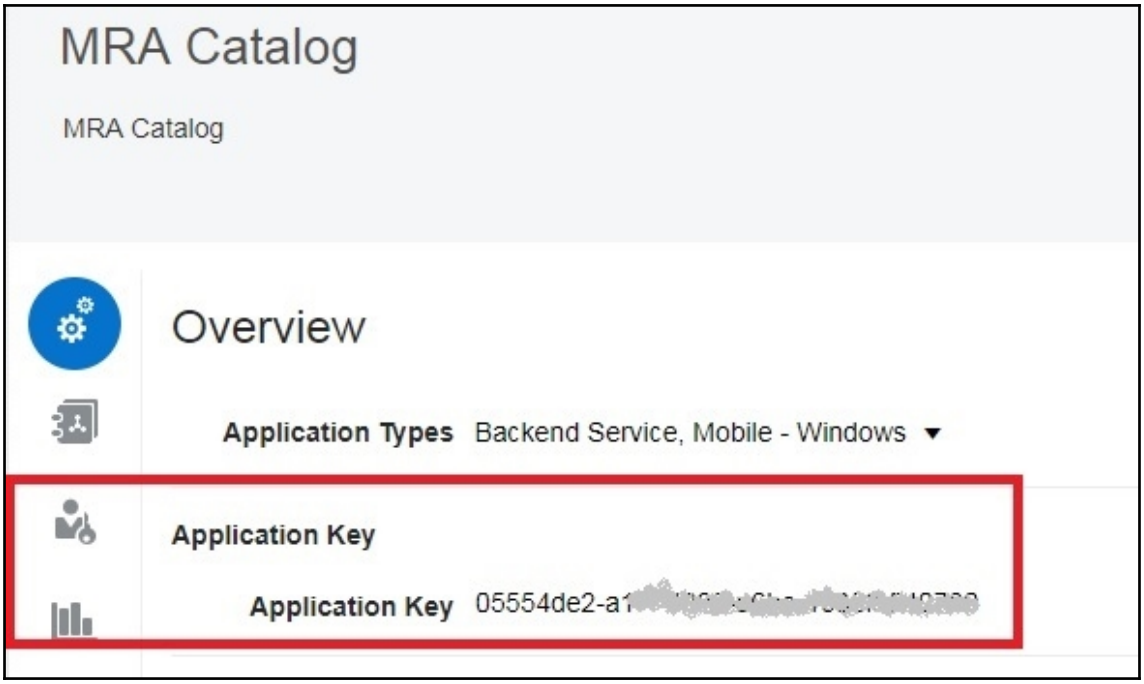
Body
Cookies
Headers (2)
Test Results
Status: 403 Forbidden
Time: 86 ms
Size: 233
Pretty
Raw
Preview
Text
API Rate Limit has been reached and the API will not process additional requests until the invocation rate has dropped below the API Rate Limit
.113_5

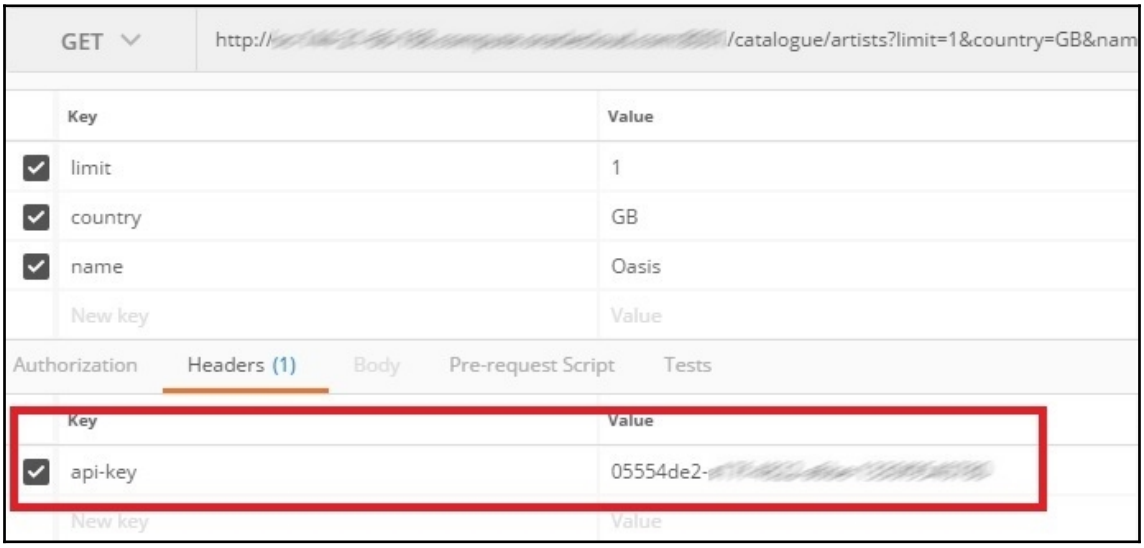

MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 26
Last Updated By
weblogic
Mar 2, 2018 5:02 PM +00:00
API Implementation
Request
Response
API Request
catalogue
API Rate Limiting Policy
Application Rate Limiting Policy
Service Request
https://
/catalogue
Available Policies
To apply, hover over a policy and click "Apply".
Security
OAuth 2.0 | 1.0
Key Validation | 1.0
Apply
Basic Auth | 1.0
Service Level Auth | 1.0
Deprecated
IP Filter Validation | 1.0
CORS | 1.0
Traffic Management
Interface Management
Routing

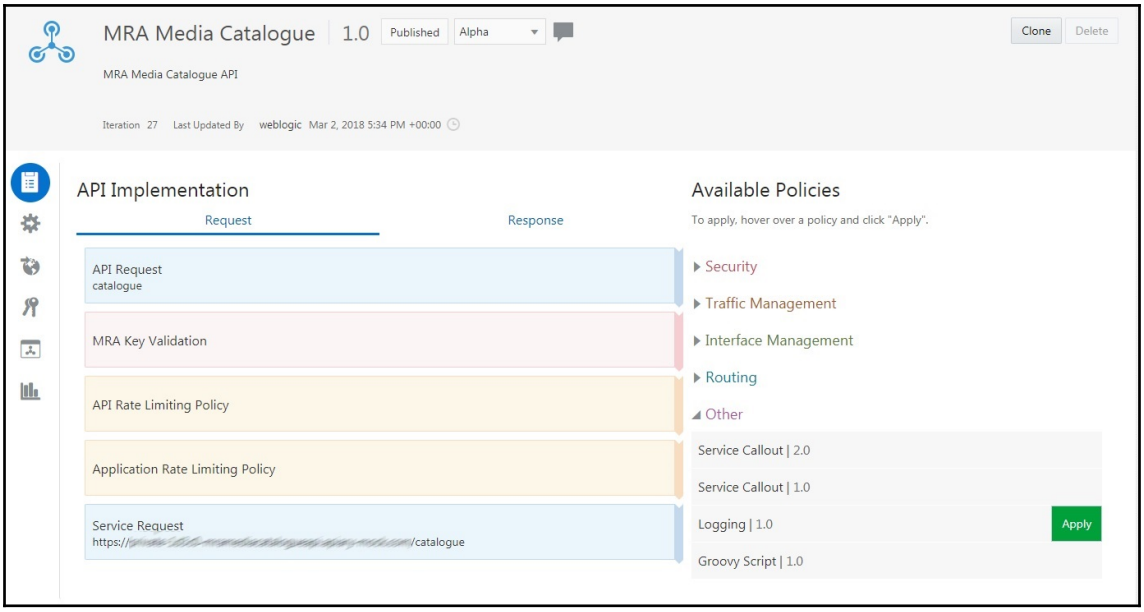

Apply Policy - Key Validation | 1.0
Enforces that a valid key is provided in the request. The key must be valid and the application must be in the "Registered" state for this API. Learn More
Your Policy Name
MRA Key Validation
Comments
Ensure API Key is sent as part of the header
Place after the following policy
API Request
Apply as Draft
Apply

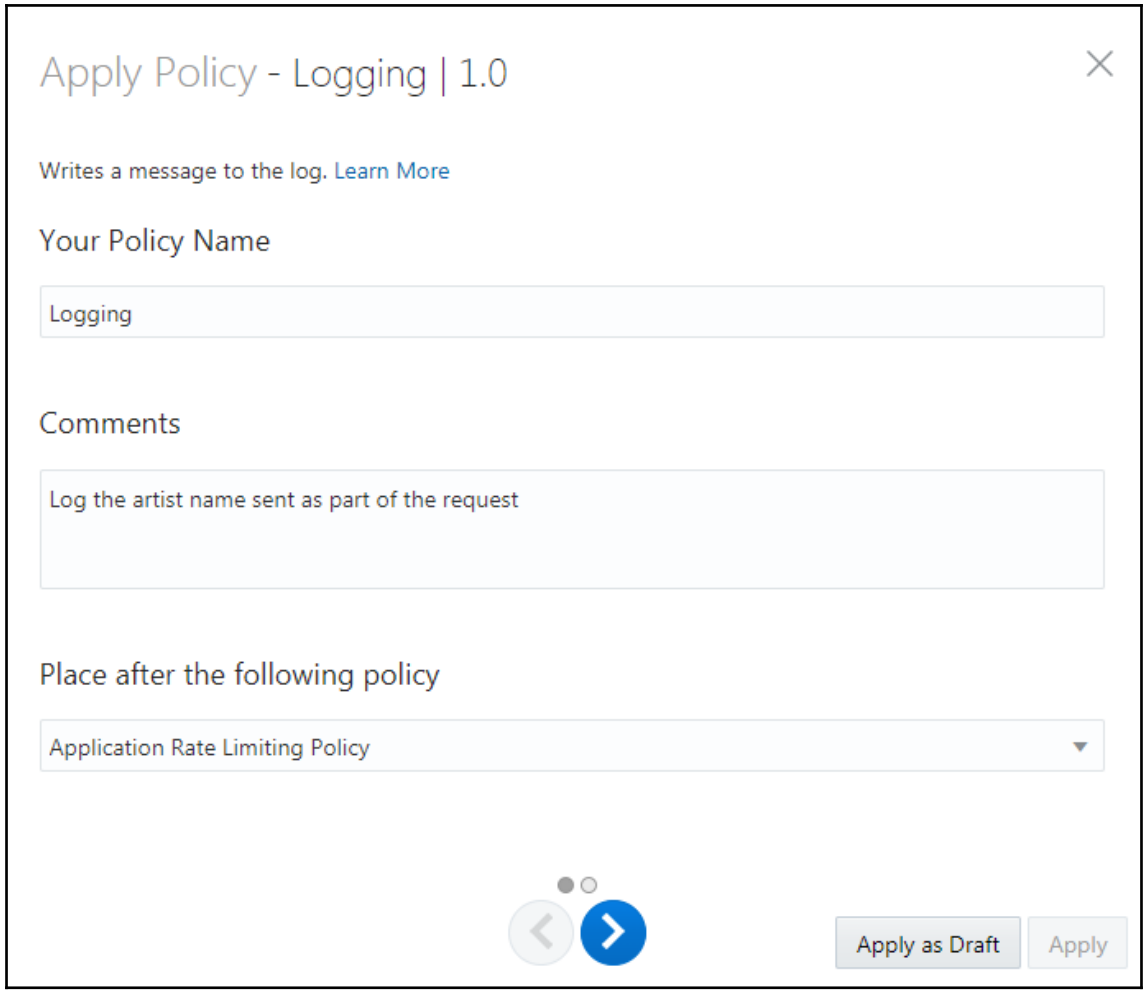

Apply Policy - MRA Key Validation
Complete all fields. Learn More
REJECT the request if a valid key for an application registered to this API is not provided.
Key Delivery Approach
Query Parameter
Header
Key Header
api-key
Specify the header providing the application key.
Apply as Draft
Apply

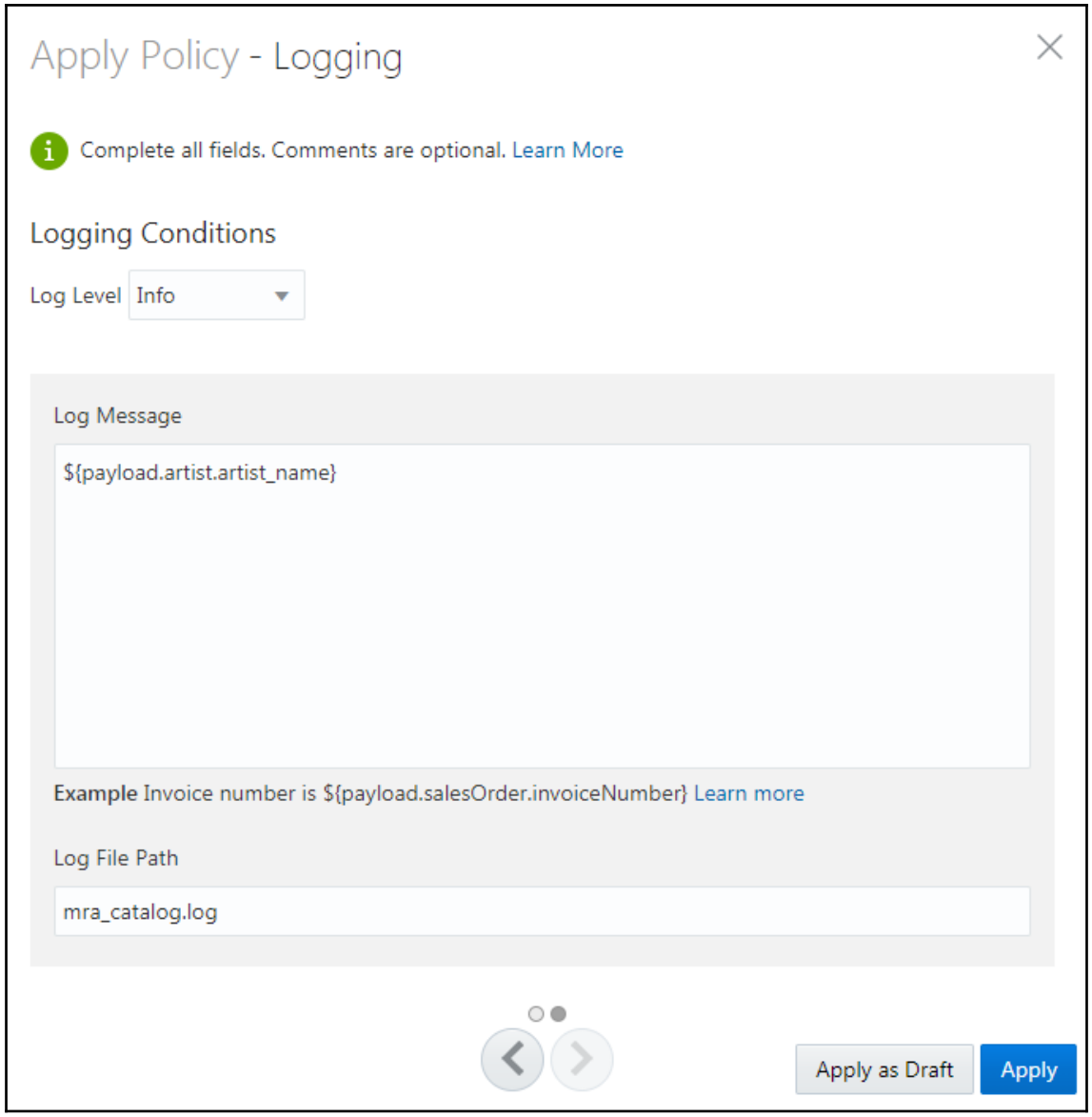

GET
/catalogue/artists?limit=1&country=GB&name=Frankie
Params
Send
Key
Value
Description
limit
1
country
GB
name
Frankie
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Headers (4)
Test Results
Status: 401 Unauthorized
Pretty
Raw
Preview
Error 401--Unauthorized
From RFC 2068 Hypertext Transfer Protocol -- HTTP/1.1:
10.4.2 401 Unauthorized

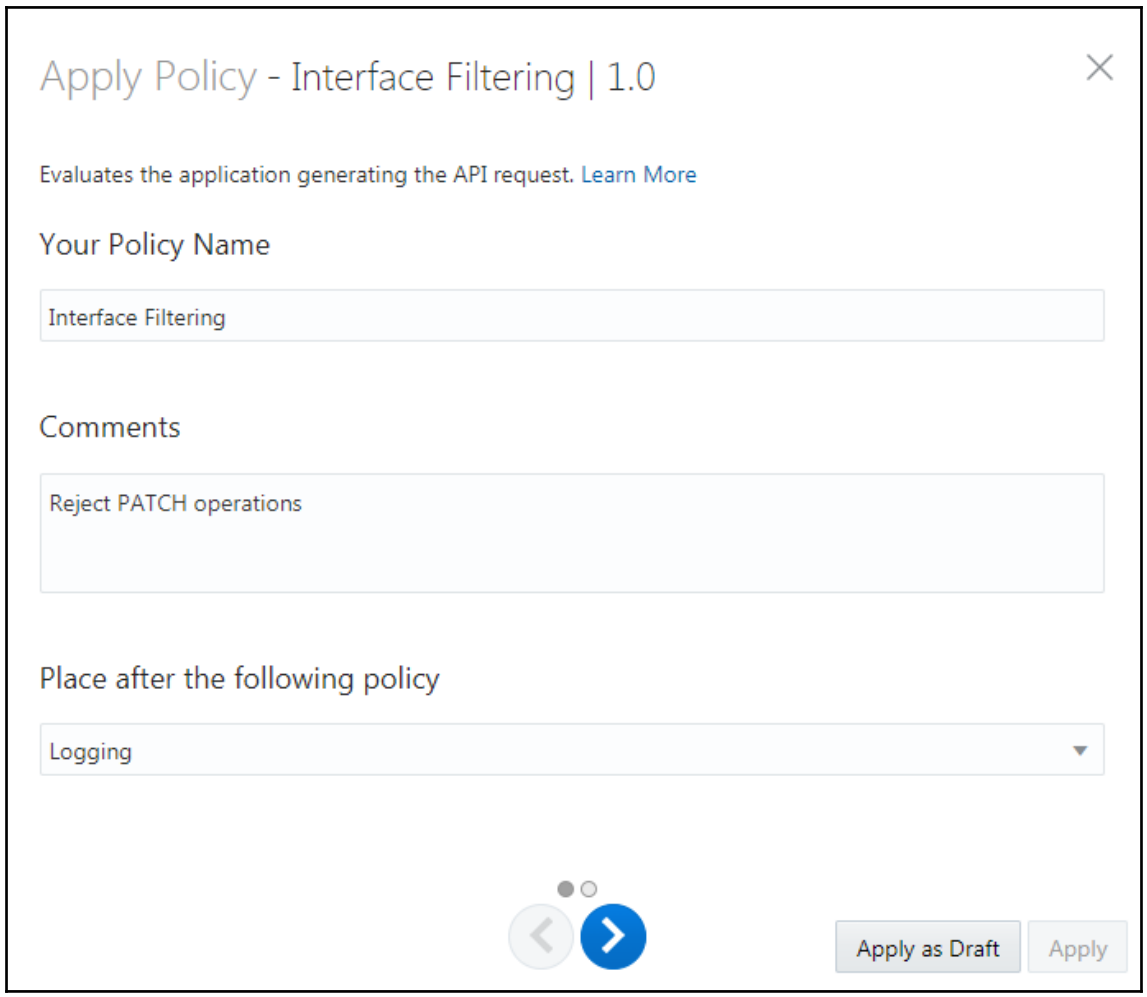

MRA Catalog
MRA Catalog
Overview
Application Types
Backend Service, Mobile - Windows
Application Key
Application Key
05554de2-a1

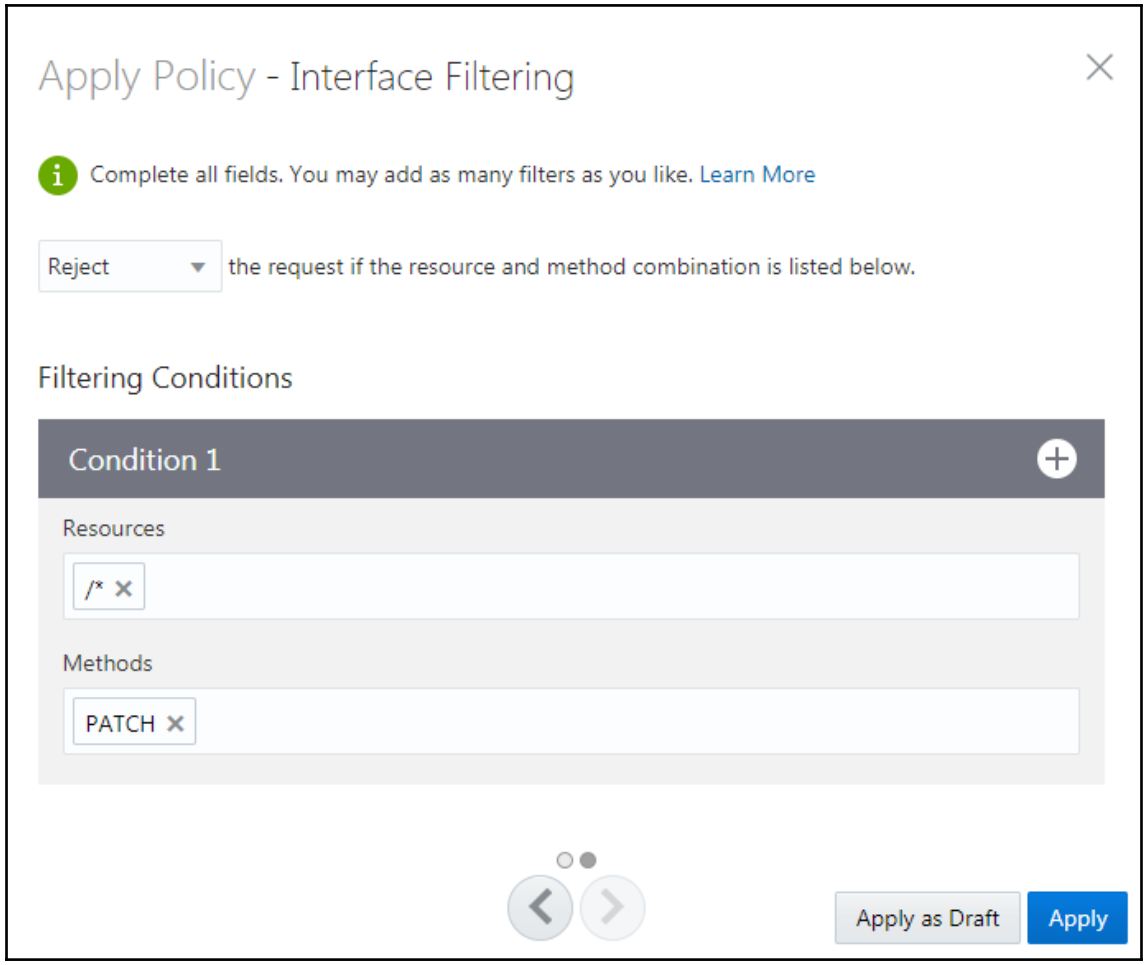

GET
http://
/catalogue/artists?limit=1&country=GB&nam
Key
Value
limit
1
country
GB
name
Oasis
New key
Value
Authorization
Headers (1)
Body
Pre-request Script
Tests
Key
Value
api-key
05554de2-
New key
Value


MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 27
Last Updated By
weblogic
Mar 2, 2018 5:34 PM +00:00
API Implementation
Request
Response
API Request
catalogue
MRA Key Validation
API Rate Limiting Policy
Application Rate Limiting Policy
Service Request
https://
/catalogue
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other
Service Callout | 2.0
Service Callout | 1.0
Logging | 1.0
Apply
Groovy Script | 1.0

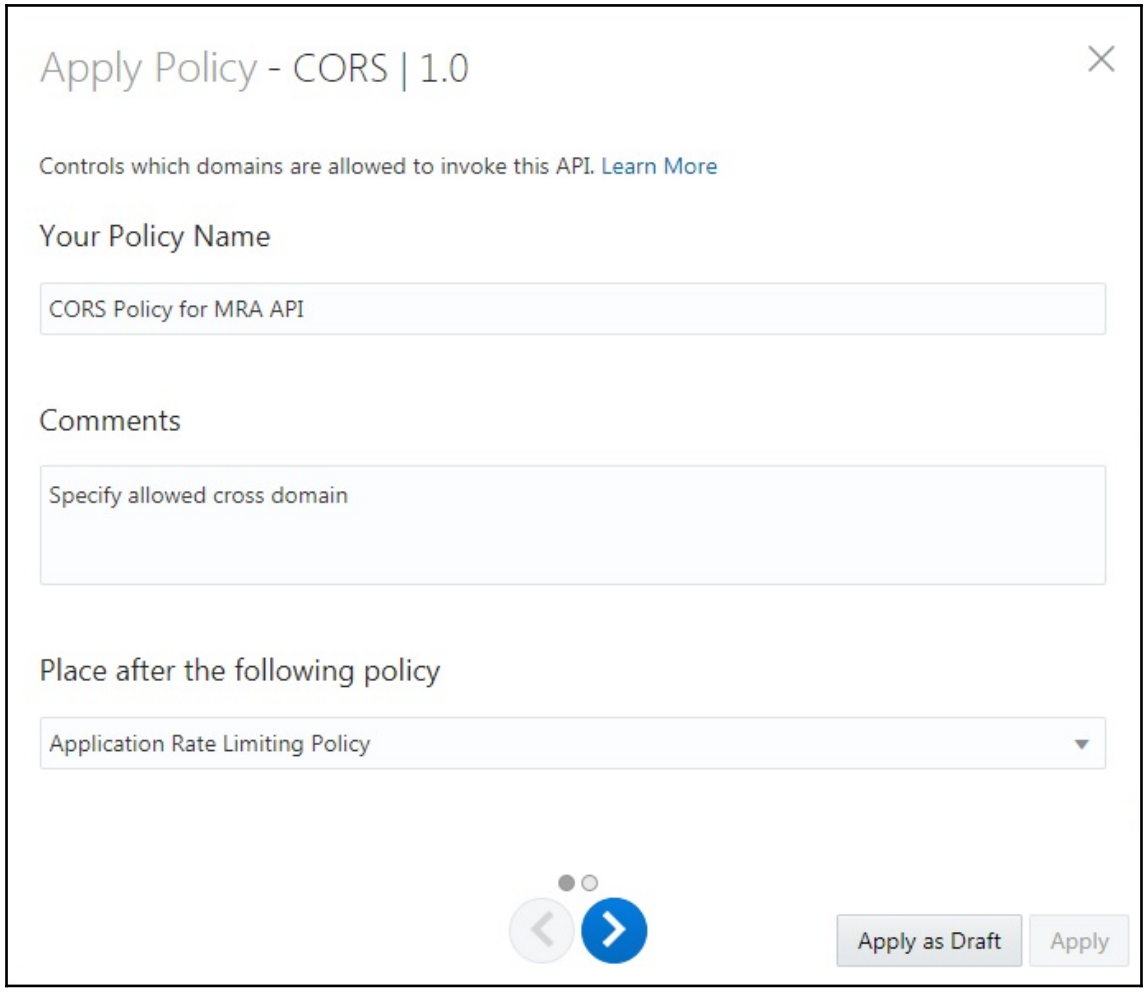

Apply Policy - Logging | 1.0
Writes a message to the log. Learn More
Your Policy Name
Logging
Comments
Log the artist name sent as part of the request
Place after the following policy
Application Rate Limiting Policy
Apply as Draft
Apply

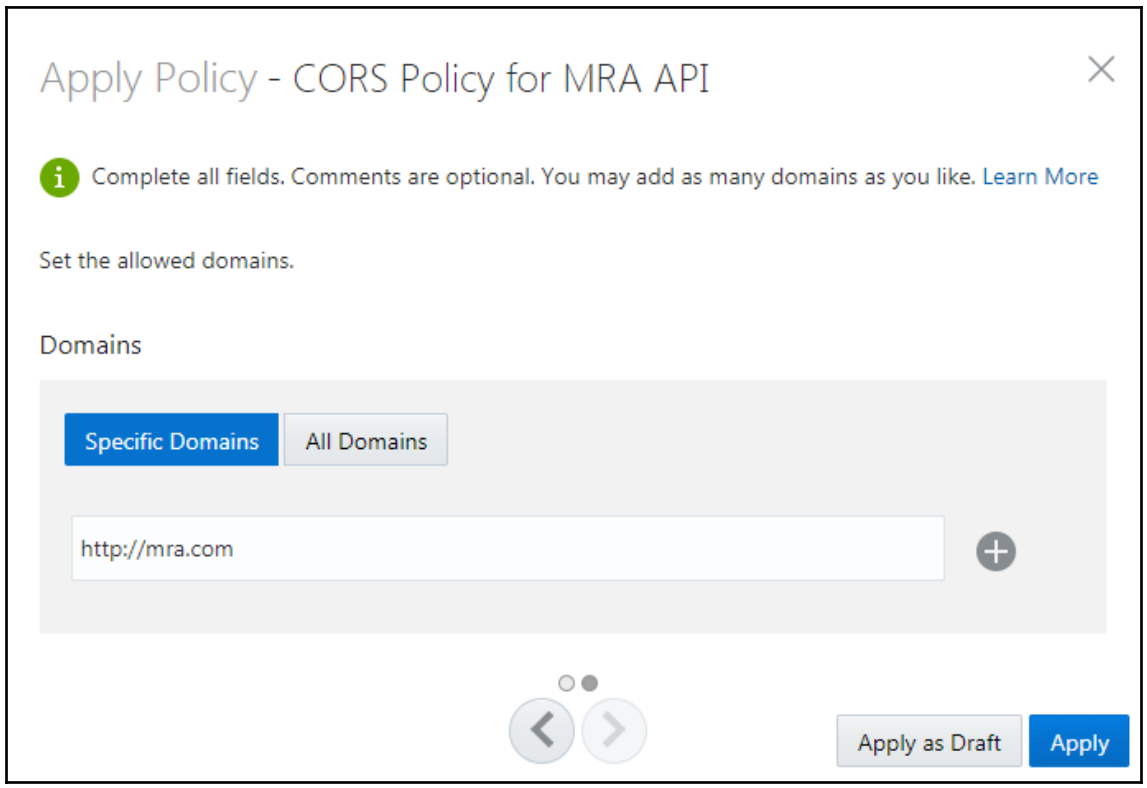

Apply Policy - Logging
Complete all fields. Comments are optional. Learn More
Logging Conditions
Log Level Info
Log Message
${payload.artist.artist_name}
Example Invoice number is ${payload.salesOrder.invoiceNumber} Learn more
Log File Path
mra_catalog.log
Apply as Draft
Apply

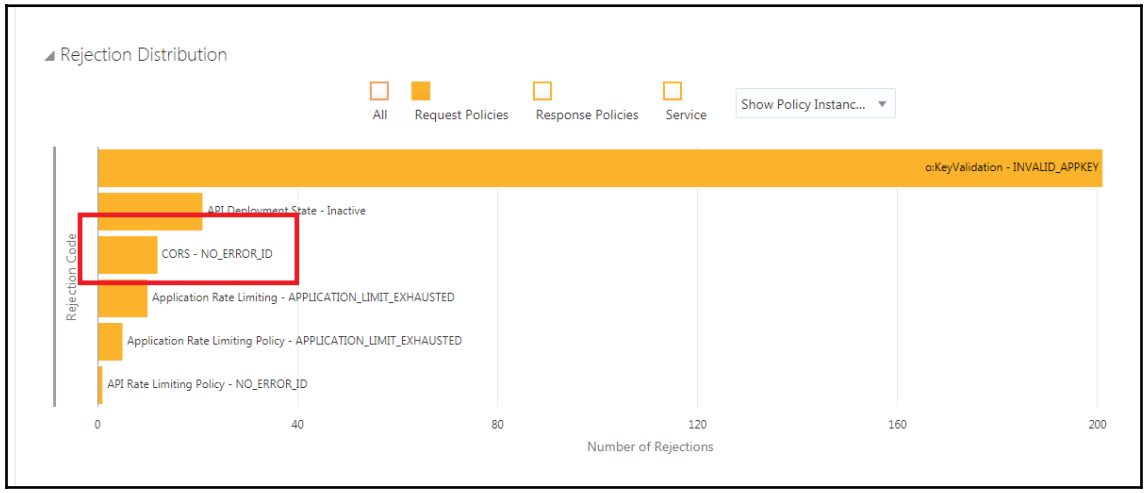

Apply Policy - Interface Filtering | 1.0
Evaluates the application generating the API request. Learn More
Your Policy Name
Interface Filtering
Comments
Reject PATCH operations
Place after the following policy
Logging
Apply as Draft
Apply

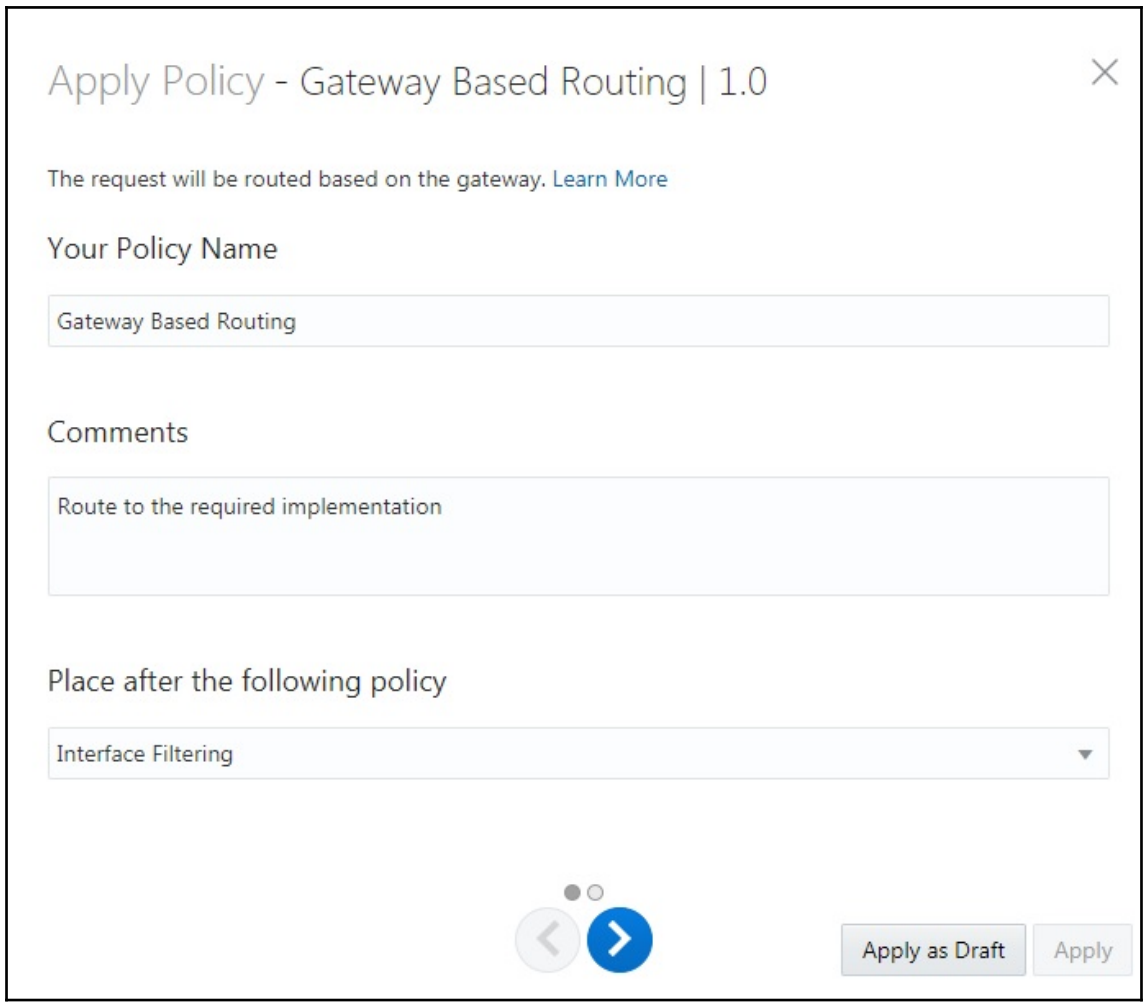

Apply Policy - Interface Filtering
Complete all fields. You may add as many filters as you like. Learn More
Reject
the request if the resource and method combination is listed below.
Filtering Conditions
Condition 1
Resources
/*
Methods
PATCH
Apply as Draft
Apply

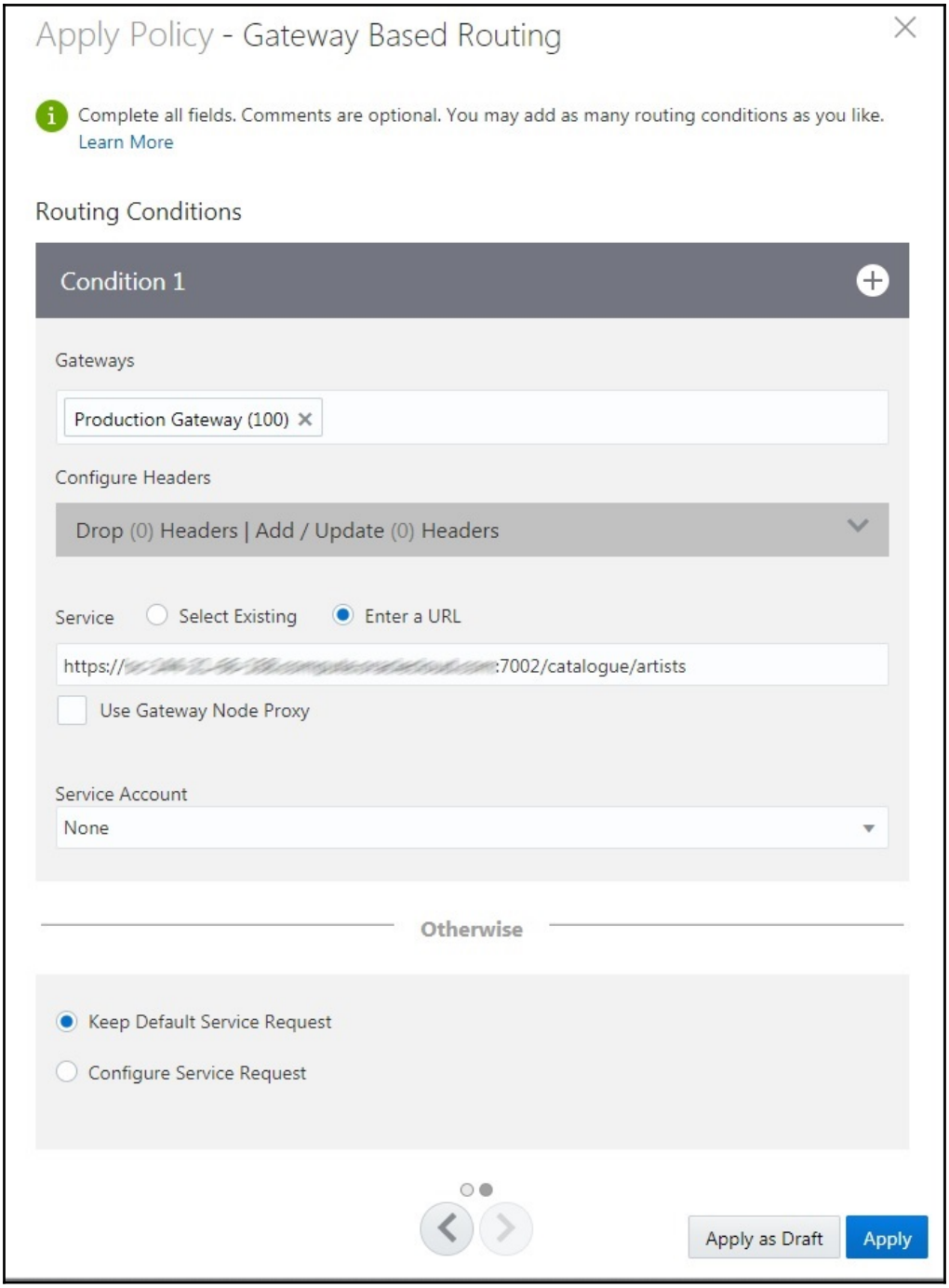
New key
Value
Description
Body
Cookies
Headers (2)
Test Results
Status: 403 Forbidden
Pretty
Raw
Preview
Text
Application or Service Provider group Service Contract is out of date for type: /catalogue/artists

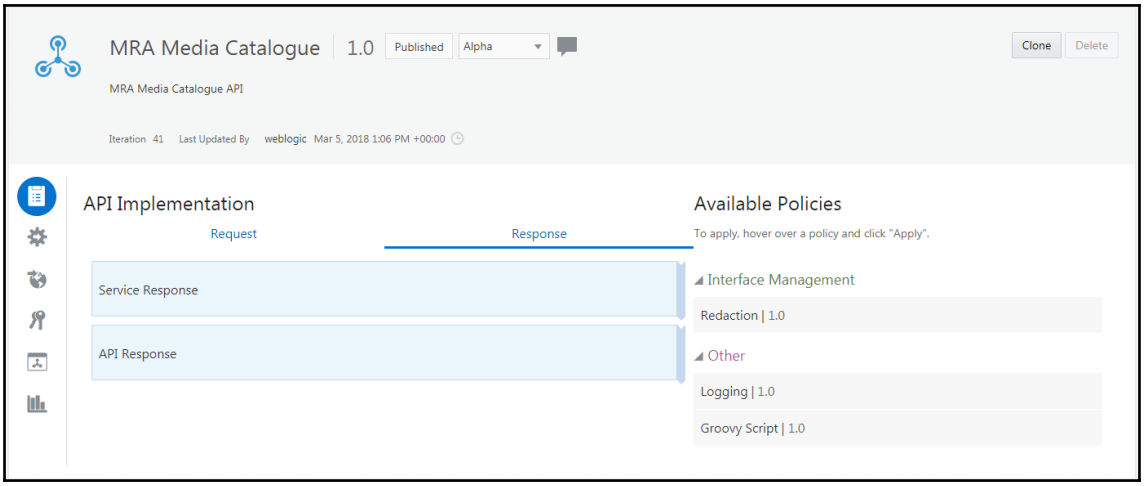

Apply Policy - CORS | 1.0
Controls which domains are allowed to invoke this API. Learn More
Your Policy Name
CORS Policy for MRA API
Comments
Specify allowed cross domain
Place after the following policy
Application Rate Limiting Policy
Apply as Draft
Apply

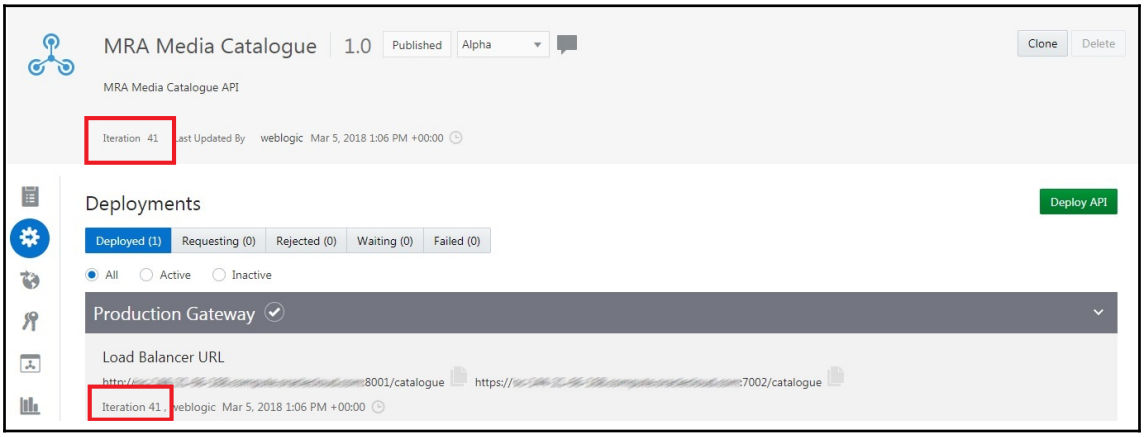

Apply Policy - CORS Policy for MRA API
Complete all fields. Comments are optional. You may add as many domains as you like. Learn More
Set the allowed domains.
Domains
Specific Domains
All Domains
http://mra.com
Apply as Draft
Apply

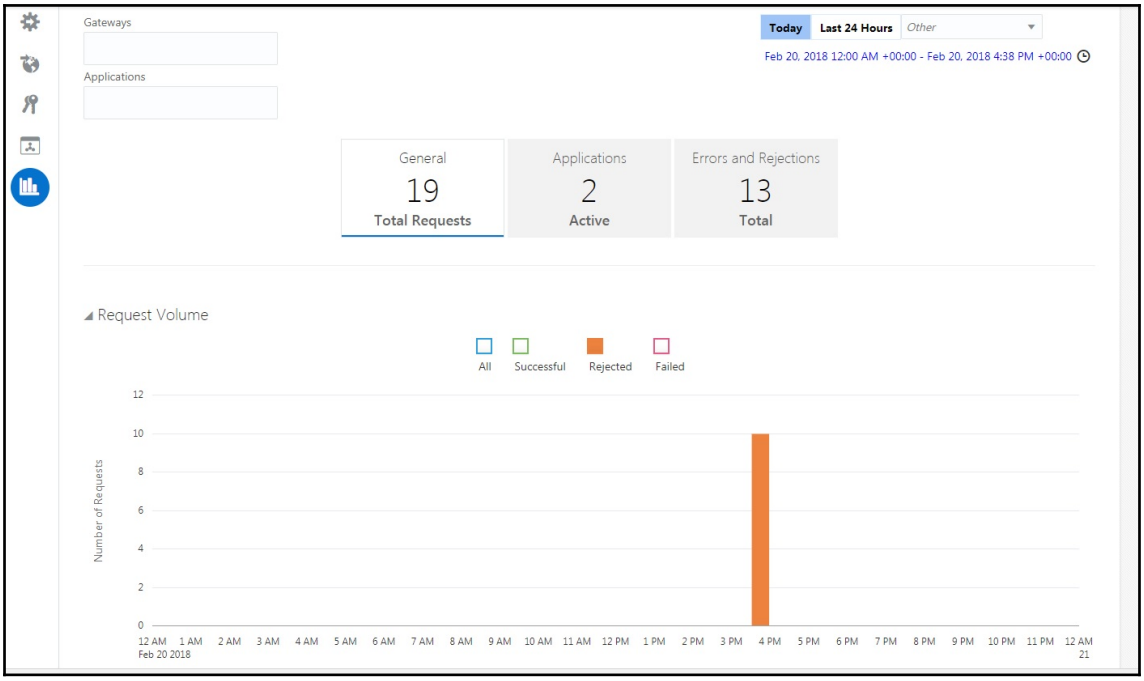

Rejection Distribution
All
Request Policies
Response Policies
Service
Show Policy Instanc...
o:KeyValidation - INVALID_APPKEY
API Deployment State - Inactive
CORS - NO_ERROR_ID
Application Rate Limiting - APPLICATION_LIMIT_EXHAUSTED
Application Rate Limiting Policy - APPLICATION_LIMIT_EXHAUSTED
API Rate Limiting Policy - NO_ERROR_ID
Rejection Code
0
40
80
120
160
200
Number of Rejections

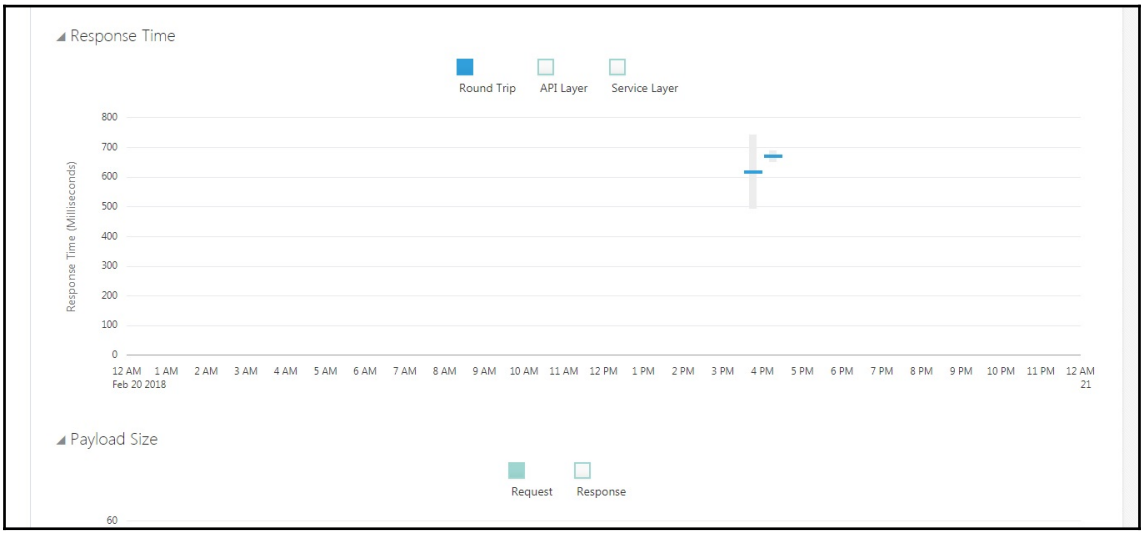

Apply Policy - Gateway Based Routing | 1.0
The request will be routed based on the gateway. Learn More
Your Policy Name
Gateway Based Routing
Comments
Route to the required implementation
Place after the following policy
Interface Filtering
Apply as Draft
Apply

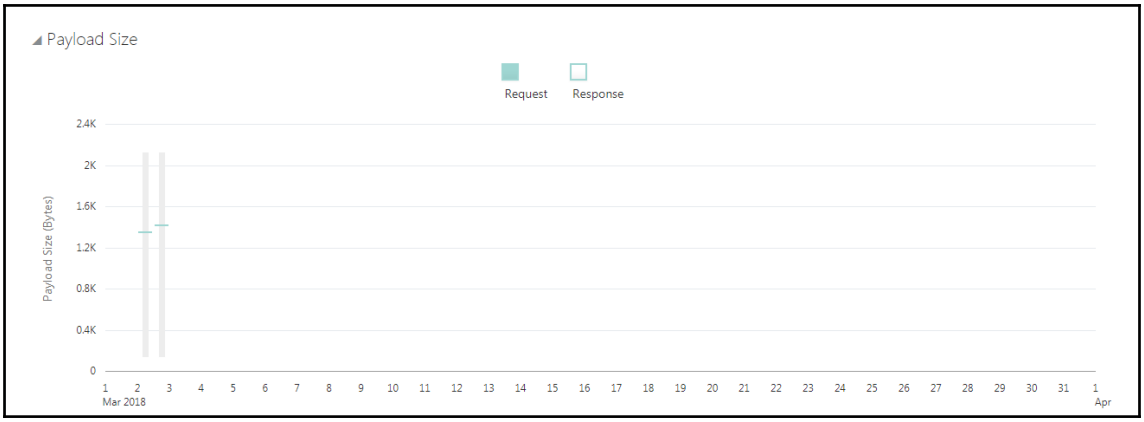

Apply Policy - Gateway Based Routing
Complete all fields. Comments are optional. You may add as many routing conditions as you like.
Learn More
Routing Conditions
Condition 1
Gateways
Production Gateway (100)
Configure Headers
Drop (0) Headers | Add / Update (0) Headers
Service
Select Existing
Enter a URL
https://[redacted]:7002/catalogue/artists
Use Gateway Node Proxy
Service Account
None
Otherwise
Keep Default Service Request
Configure Service Request
Apply as Draft
Apply


MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 41
Last Updated By
weblogic
Mar 5, 2018 1:06 PM +00:00
API Implementation
Request
Response
Service Response
API Response
Available Policies
To apply, hover over a policy and click "Apply".
Interface Management
Redaction | 1.0
Other
Logging | 1.0
Groovy Script | 1.0


MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 41
Last Updated By
weblogic
Mar 5, 2018 1:06 PM +00:00
Deployments
Deploy API
Deployed (1)
Requesting (0)
Rejected (0)
Waiting (0)
Failed (0)
All
Active
Inactive
Production Gateway
Load Balancer URL
8001/catalogue
https://
:7002/catalogue
Iteration 41
weblogic
Mar 5, 2018 1:06 PM +00:00

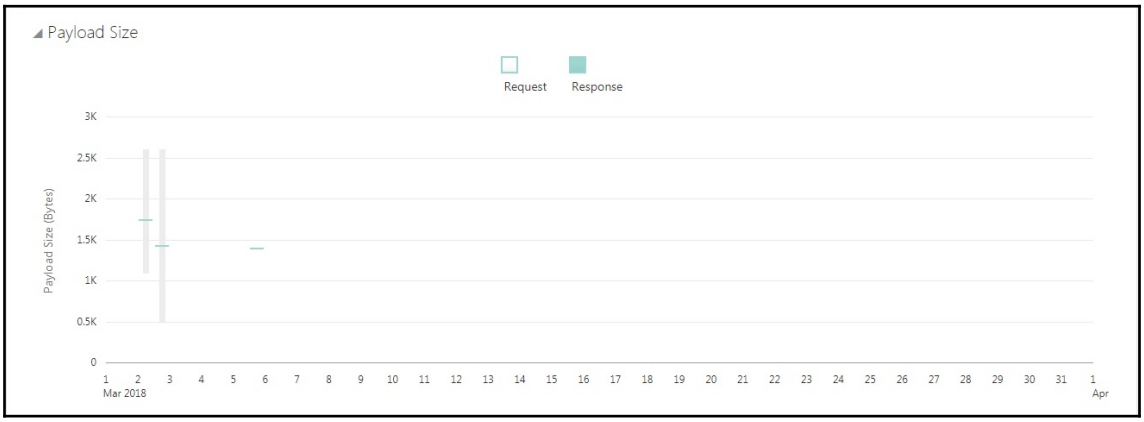

Gateways
Applications
Today
Last 24 Hours
Other
Feb 20, 2018 12:00 AM +00:00 - Feb 20, 2018 4:38 PM +00:00
General
19
Total Requests
Applications
2
Active
Errors and Rejections
13
Total
Request Volume
All
Successful
Rejected
Failed
Number of Requests
12 AM Feb 20 2018
12 AM 21

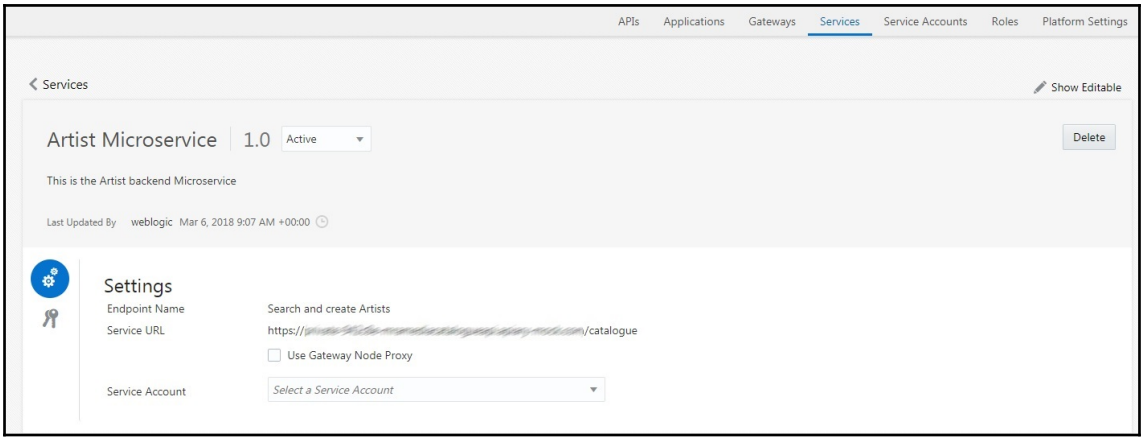

Response Time
Round Trip
API Layer
Service Layer
Response Time (Milliseconds)
12 AM Feb 20 2018
12 AM 21
Payload Size
Request
Response

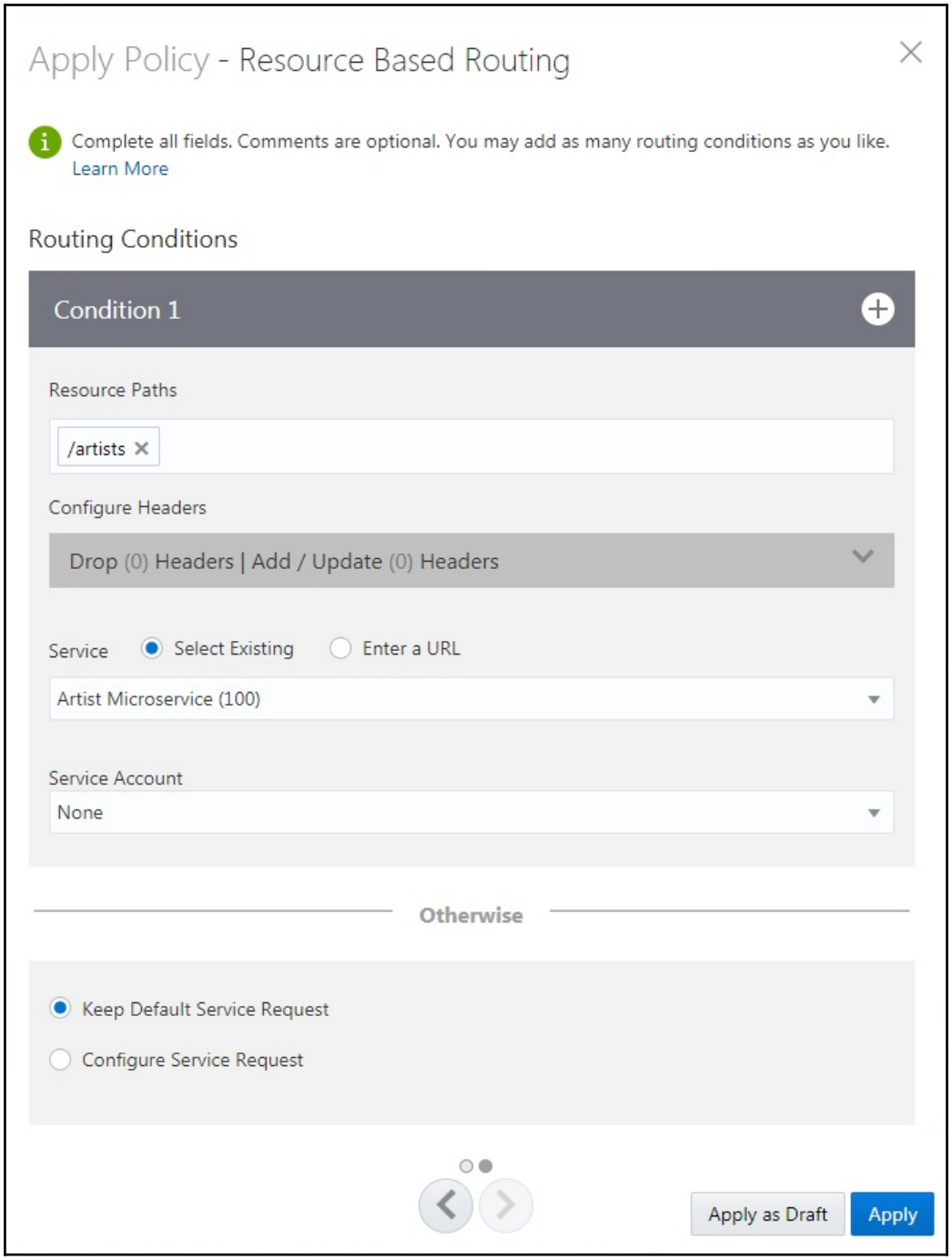


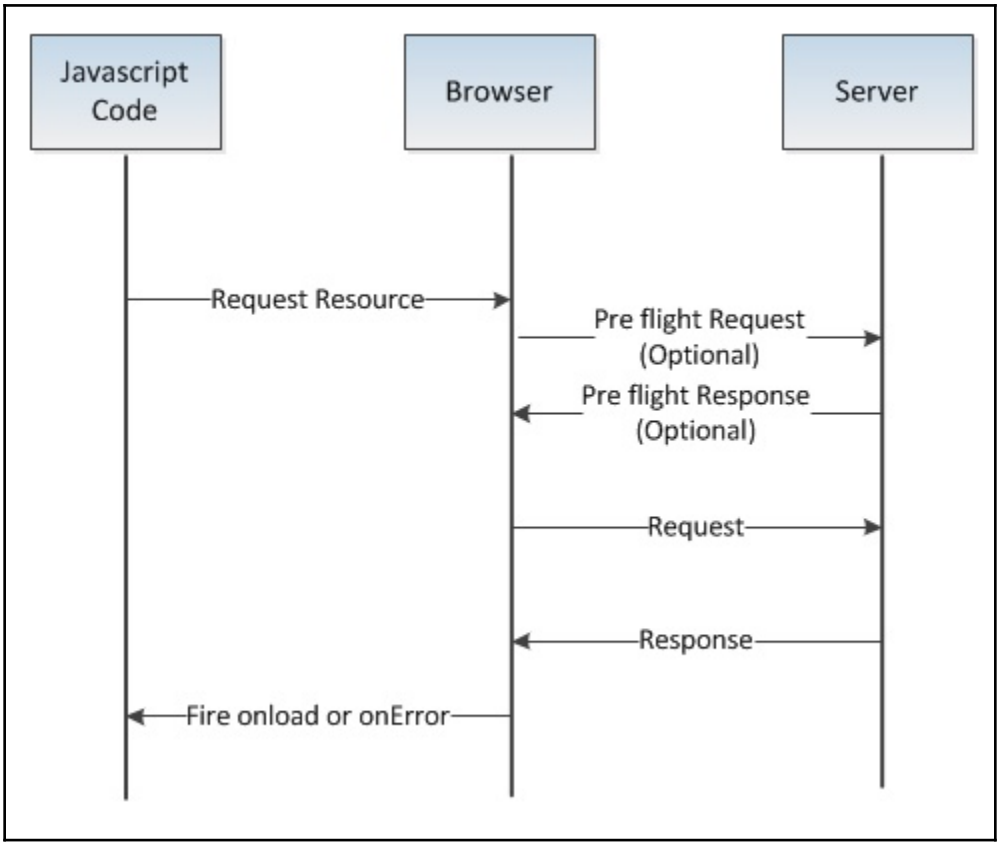
Requests By Resource

Request Path	Requests		Rejections		Errors	
	Volume	Distribution	Volume	Distribution	Volume	Distribution
/catalogue/songs/son003456/	4	0.8%	4	1.0%		
/catalogue/artists	294	60.0%	242	60.8%	8	100.0%
/catalogue/artists/art123456	16	3.3%	7	1.8%		
/catalogue/songs	15	3.1%	8	2.0%		
/catalogue/catalogue/artists	13	2.7%	13	3.3%		
/catalogue/albums/alb000456	10	2.0%	3	0.8%		
/catalogue/songs/son003456	10	2.0%	5	1.3%		
/catalogue/albums	10	2.0%	3	0.8%		

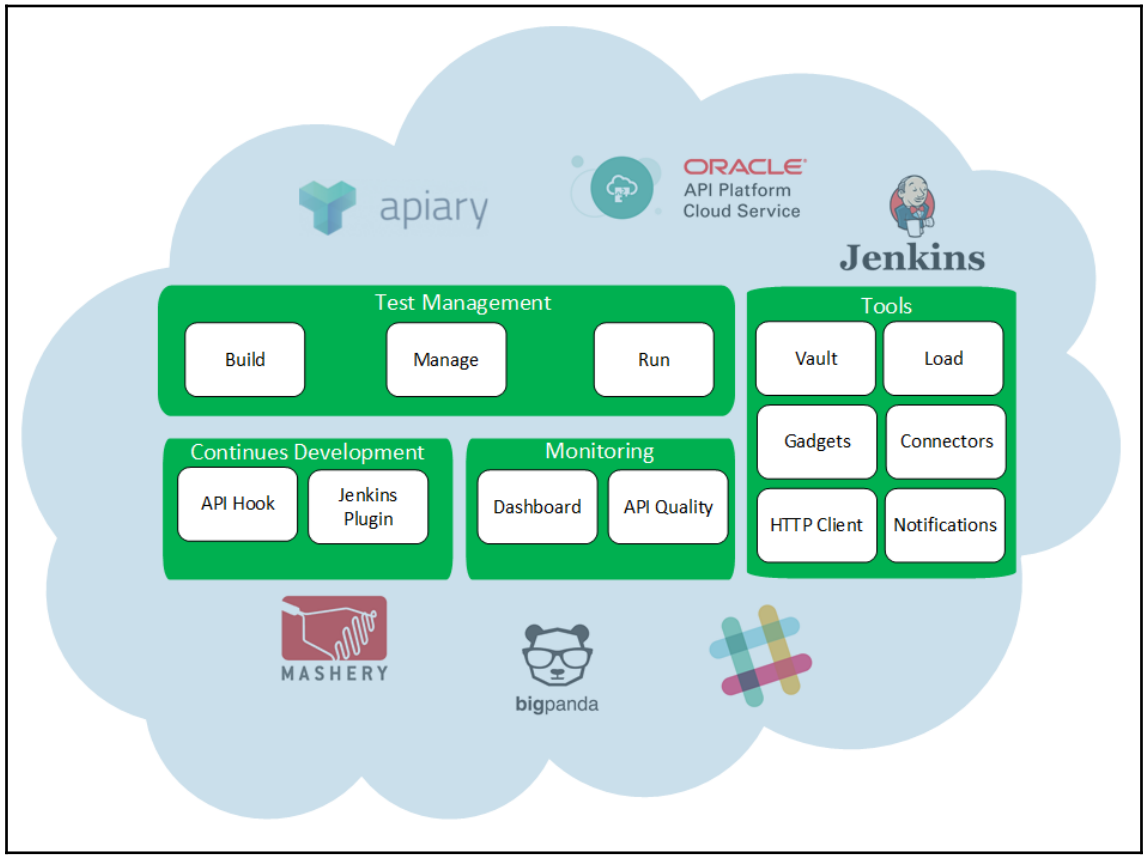


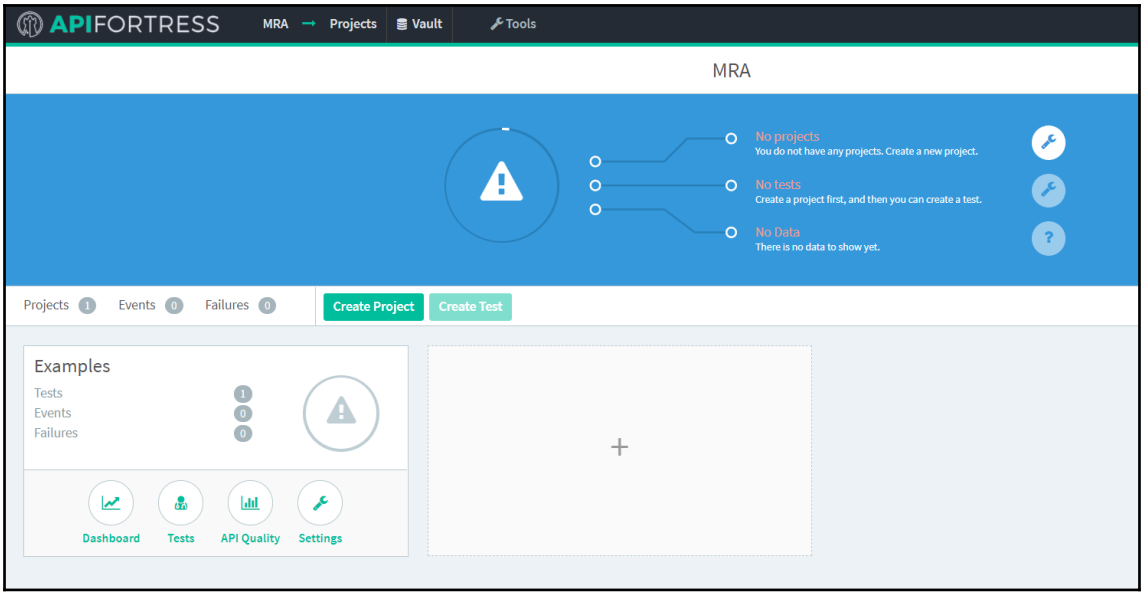

APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
Services
Show Editable
Artist Microservice
1.0
Active
Delete
This is the Artist backend Microservice
Last Updated By
weblogic
Mar 6, 2018 9:07 AM +00:00
Settings
Endpoint Name
Search and create Artists
Service URL
https://
/catalogue
Use Gateway Node Proxy
Service Account
Select a Service Account

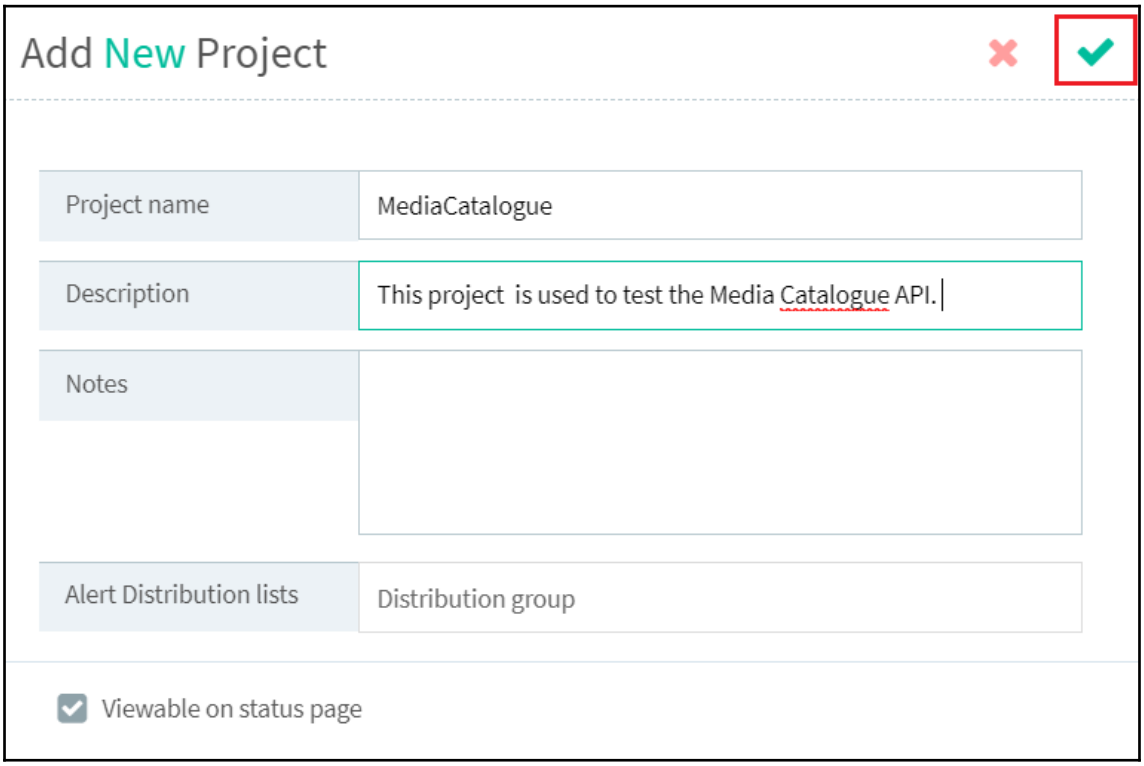

Apply Policy - Resource Based Routing
Complete all fields. Comments are optional. You may add as many routing conditions as you like.
Learn More
Routing Conditions
Condition 1
Resource Paths
/artists
Configure Headers
Drop (0) Headers | Add / Update (0) Headers
Service
Select Existing
Enter a URL
Artist Microservice (100)
Service Account
None
Otherwise
Keep Default Service Request
Configure Service Request
Apply as Draft
Apply

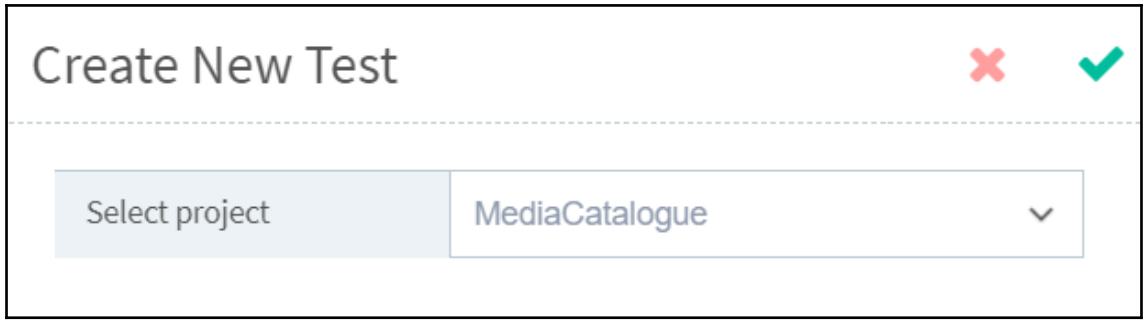

Javascript Code
Browser
Server
Request Resource
Pre flight Request (Optional)
Pre flight Response (Optional)
Request
Response
Fire onload or onError

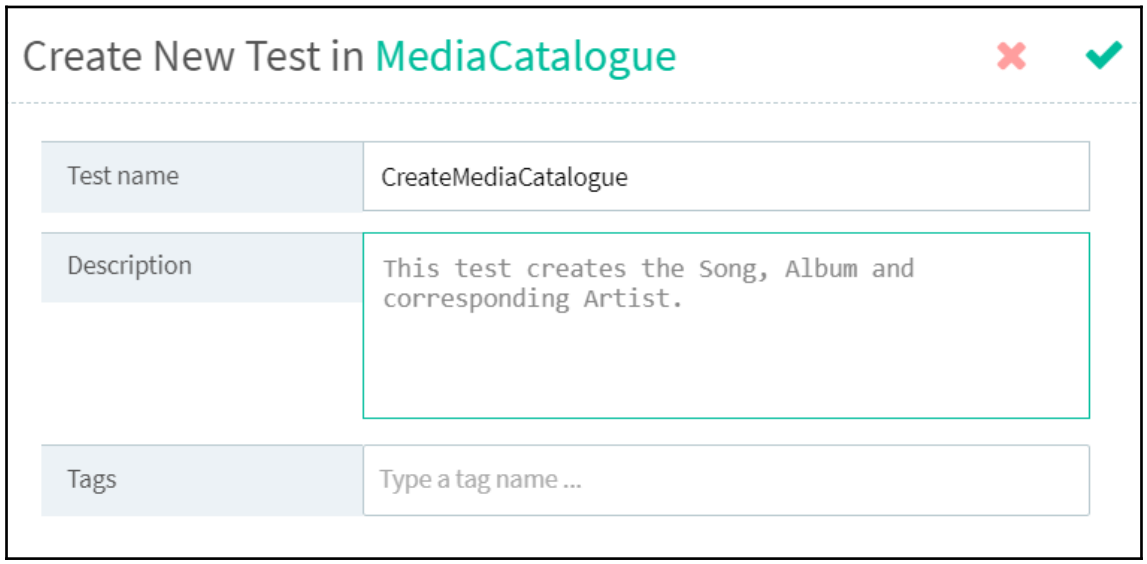
Chapter 7: Testing APIs with API Fortress

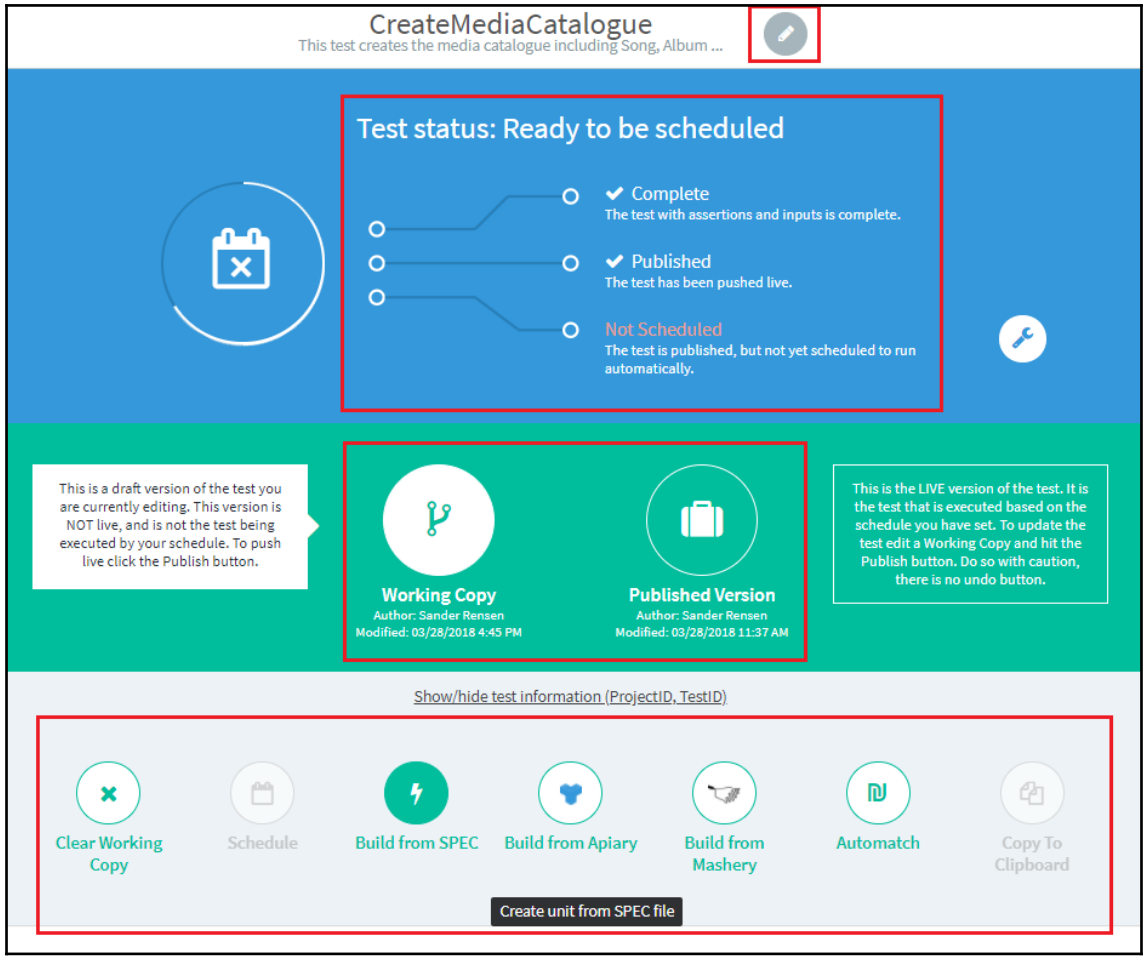


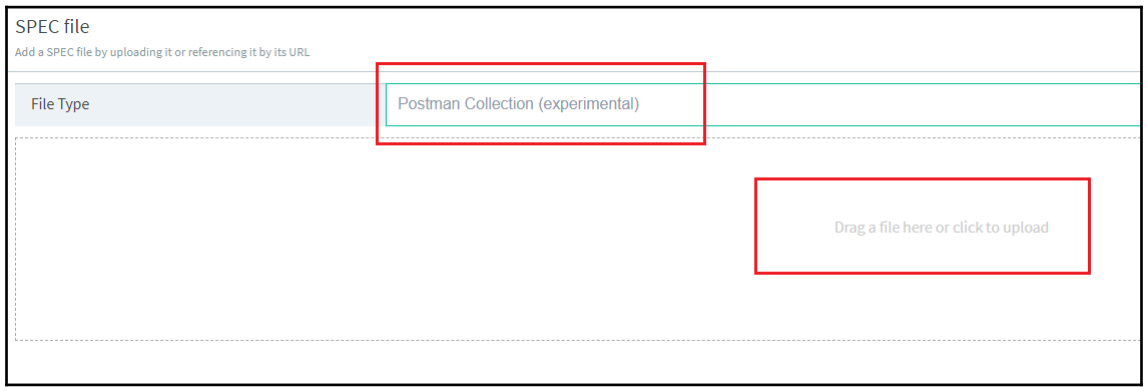

APIFORTRESS
MRA
Projects
Vault
Tools
MRA
No projects
You do not have any projects. Create a new project.
No tests
Create a project first, and then you can create a test.
No Data
There is no data to show yet.
Projects 1
Events 0
Failures 0
Create Project
Create Test
Examples
Tests 1
Events 0
Failures 0
Dashboard
Tests
API Quality
Settings

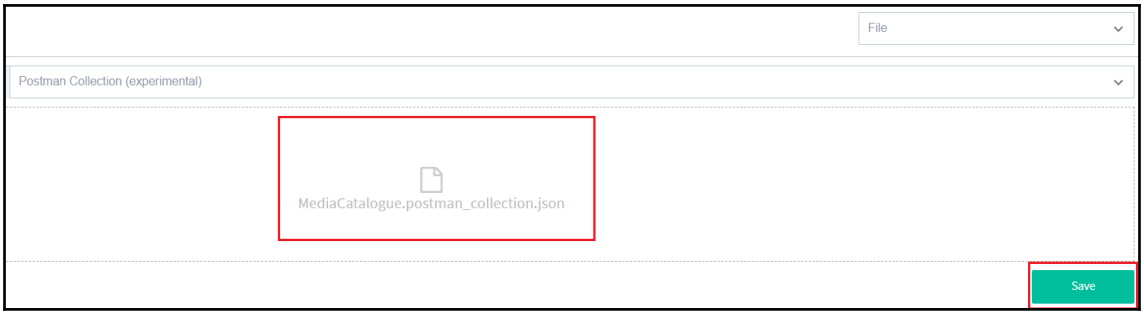

Add New Project
Project name
MediaCatalogue
Description
This project is used to test the Media Catalogue API.
Notes
Alert Distribution lists
Distribution group
Viewable on status page

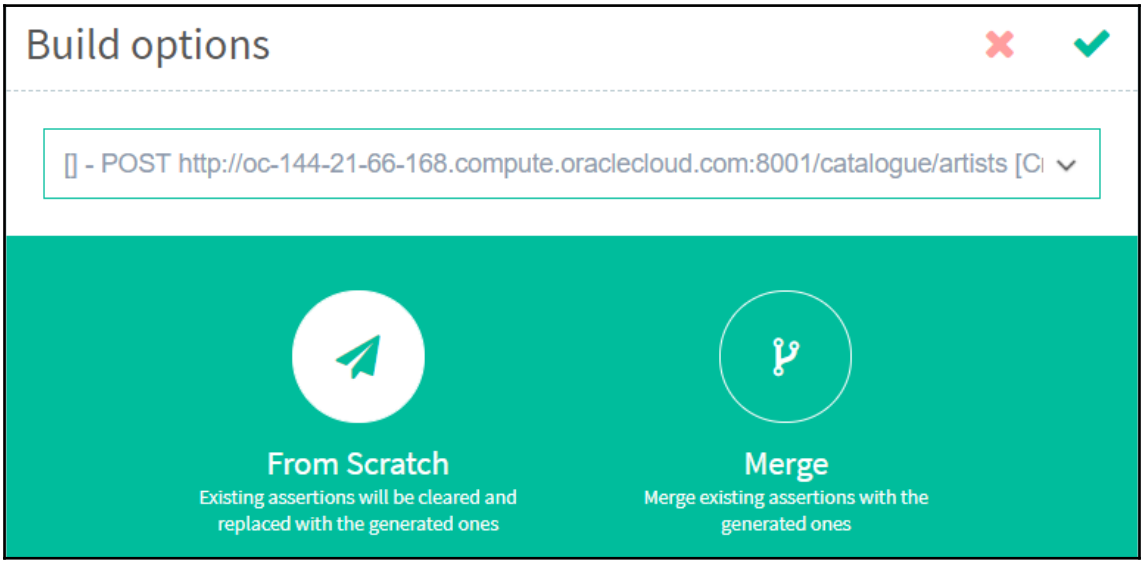

Create New Test
Select project
MediaCatalogue

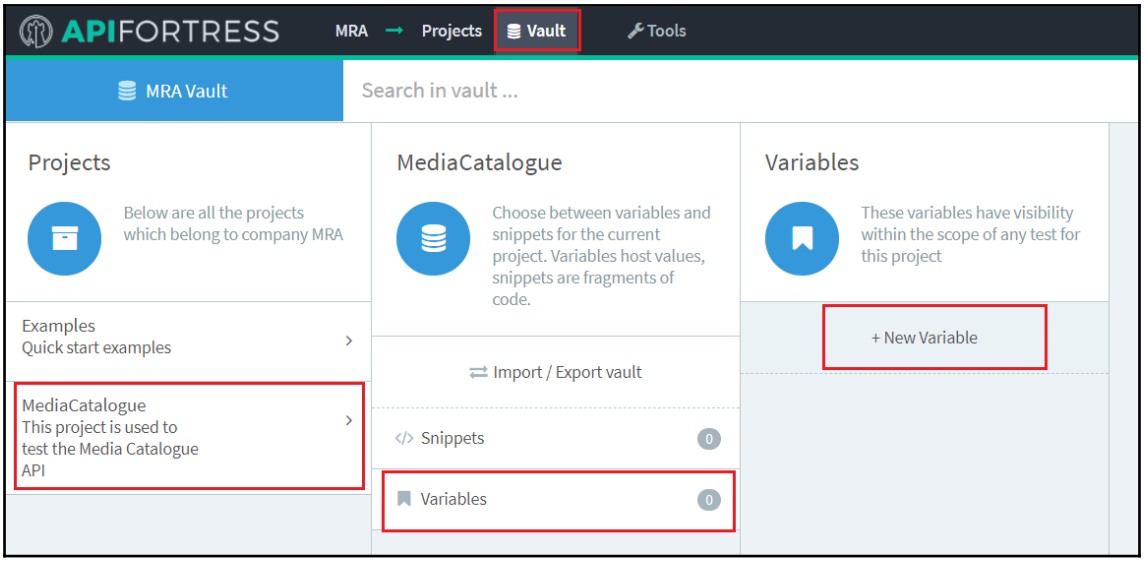

Create New Test in MediaCatalogue
Test name
CreateMediaCatalogue
Description
This test creates the Song, Album and corresponding Artist.
Tags
Type a tag name ...

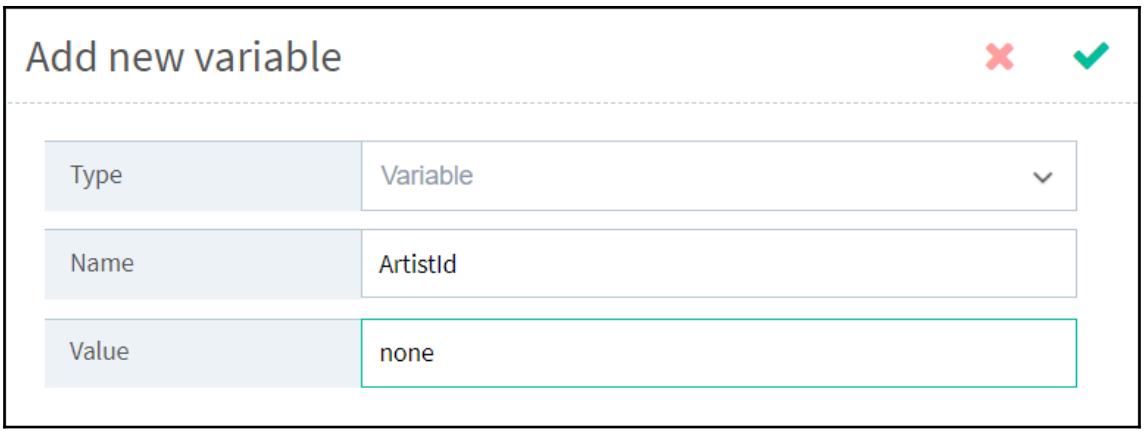

CreateMediaCatalogue
This test creates the media catalogue including Song, Album ...
Test status: Ready to be scheduled
Complete
The test with assertions and inputs is complete.
Published
The test has been pushed live.
Not Scheduled
The test is published, but not yet scheduled to run automatically.
This is a draft version of the test you are currently editing. This version is NOT live, and is not the test being executed by your schedule. To push live click the Publish button.
Working Copy
Author: Sander Rensen
Modified: 03/28/2018 4:45 PM
Published Version
Author: Sander Rensen
Modified: 03/28/2018 11:37 AM
This is the LIVE version of the test. It is the test that is executed based on the schedule you have set. To update the test edit a Working Copy and hit the Publish button. Do so with caution, there is no undo button.
Show/hide test information (ProjectID, TestID)
Clear Working Copy
Schedule
Build from SPEC
Build from Apiary
Build from Mashery
Automatch
Copy To Clipboard
Create unit from SPEC file

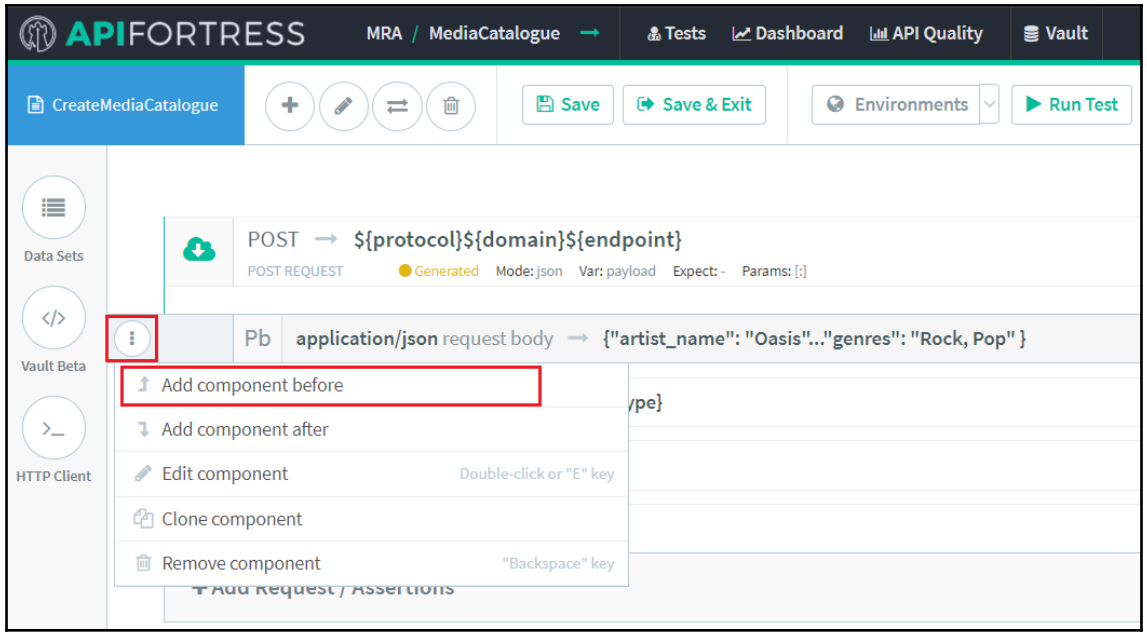

SPEC file
Add a SPEC file by uploading it or referencing it by its URL
File Type
Postman Collection (experimental)
Drag a file here or click to upload

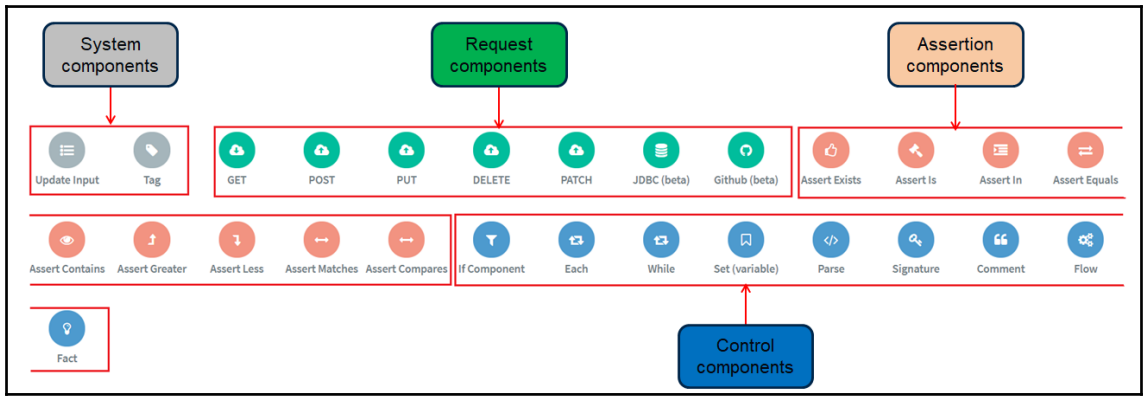

File
Postman Collection (experimental)
MediaCatalogue.postman_collection.json
Save


Build options
[] - POST http://oc-144-21-66-168.compute.oraclecloud.com:8001/catalogue/artists [C
From Scratch
Existing assertions will be cleared and replaced with the generated ones
Merge
Merge existing assertions with the generated ones


APIFORTRESS
MRA
Projects
Vault
Tools
MRA Vault
Search in vault ...
Projects
Below are all the projects which belong to company MRA
Examples
Quick start examples
MediaCatalogue
This project is used to test the Media Catalogue API
MediaCatalogue
Choose between variables and snippets for the current project. Variables host values, snippets are fragments of code.
Import / Export vault
Snippets
0
Variables
0
Variables
These variables have visibility within the scope of any test for this project
+ New Variable

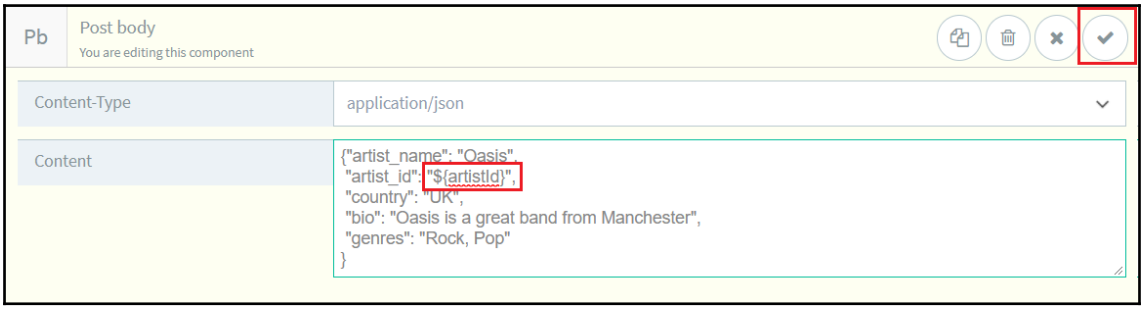

Add new variable
Type
Variable
Name
ArtistId
Value
none

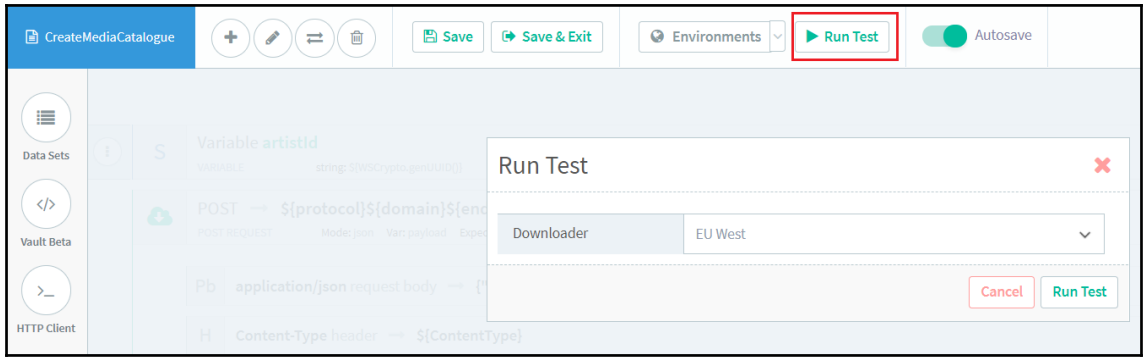

APIFORTRESS
MRA / MediaCatalogue
Tests
Dashboard
API Quality
Vault
CreateMediaCatalogue
Save
Save & Exit
Environments
Run Test
Data Sets
Vault Beta
HTTP Client
POST ${protocol}${domain}${endpoint}
POST REQUEST
Generated
Mode: json
Var: payload
Expect: -
Params: [:]
Pb
application/json request body
{"artist_name": "Oasis"..."genres": "Rock, Pop" }
Add component before
Add component after
Edit component
Double-click or "E" key
Clone component
Remove component
"Backspace" key

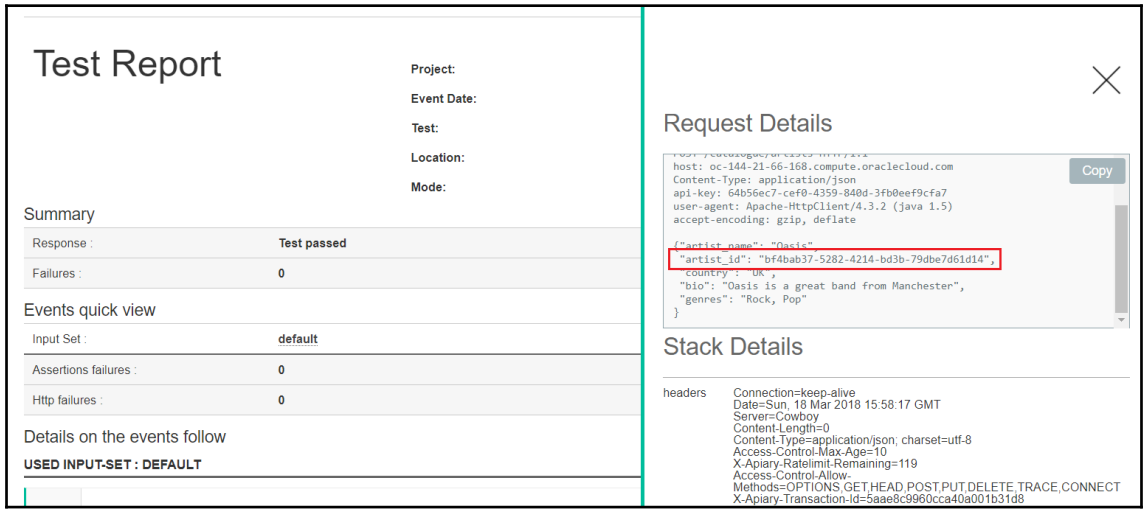

System components
Request components
Assertion components
Update Input
Tag
GET
POST
PUT
DELETE
PATCH
JDBC (beta)
Github (beta)
Assert Exists
Assert Is
Assert In
Assert Equals
Assert Contains
Assert Greater
Assert Less
Assert Matches
Assert Compares
If Component
Each
While
Set (variable)
Parse
Signature
Comment
Flow
Fact
Control components

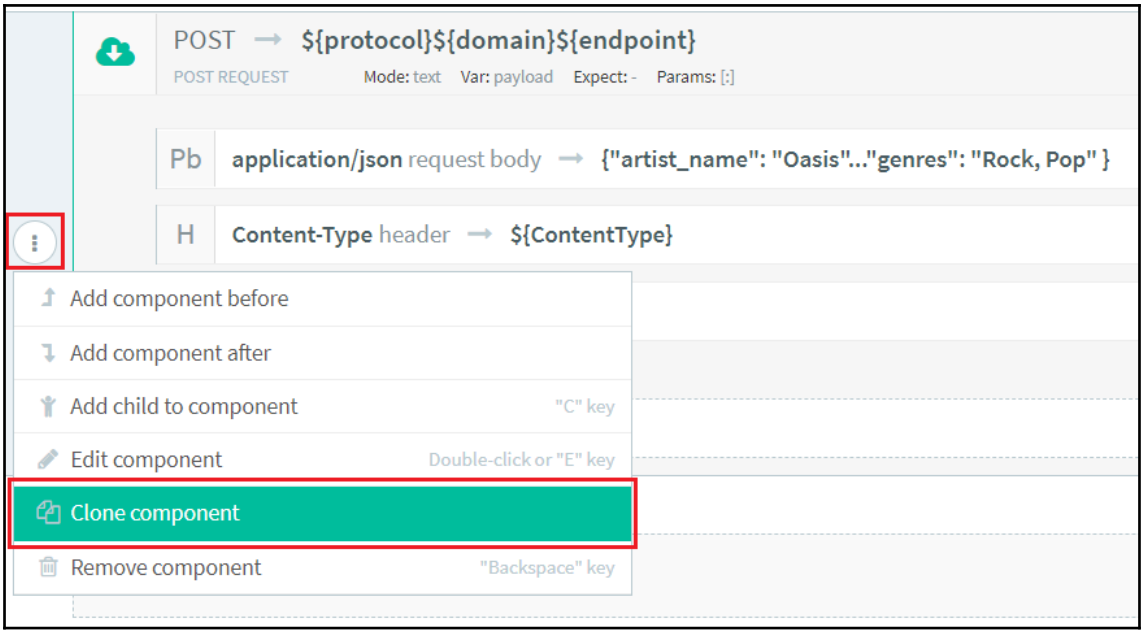
S
Variable
You are editing this component
Var
artistId
Variable mode
String
Value
${WSCrypto.genUUID()}

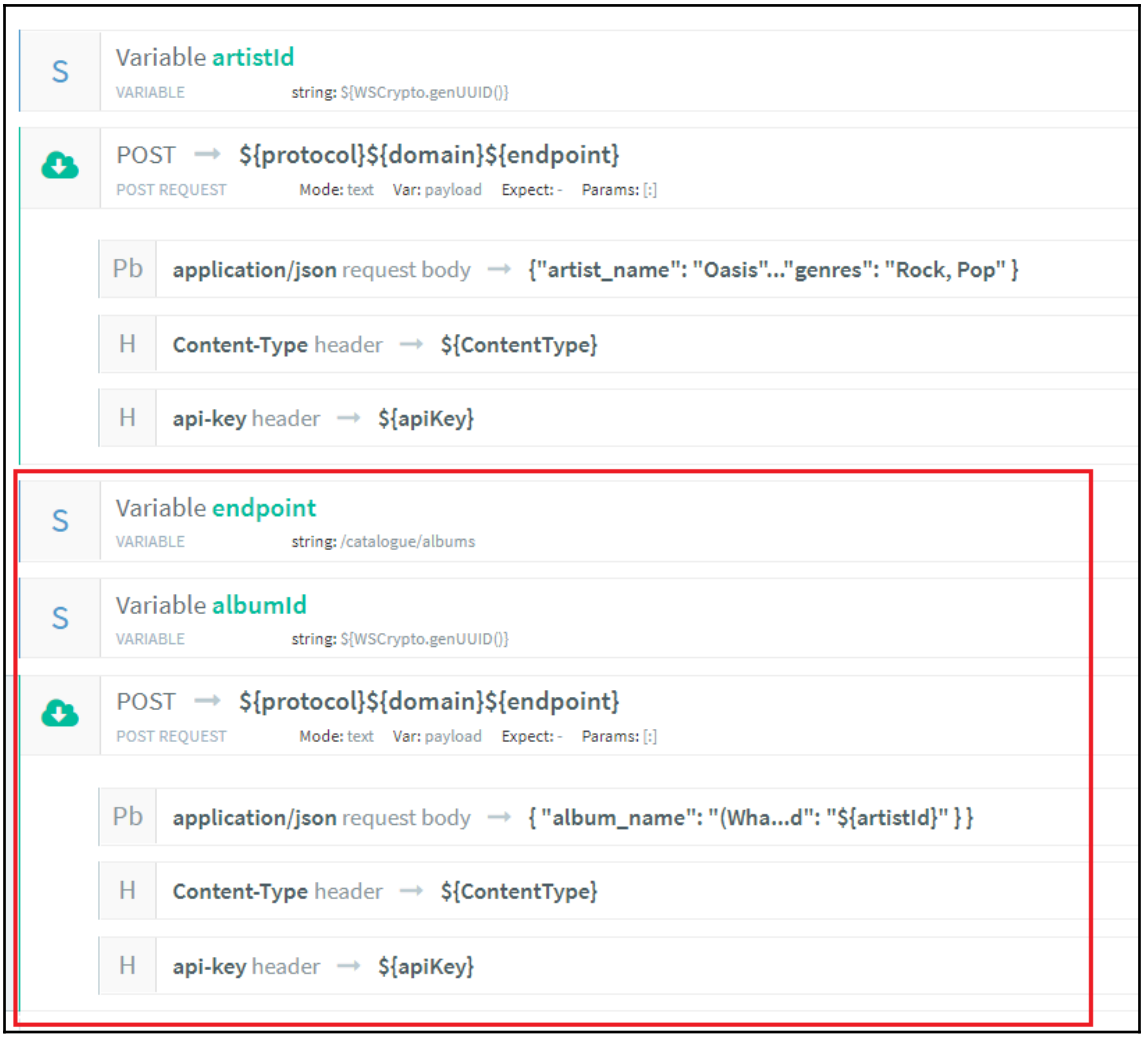
CreateMediaCatalogue
Save
Save & Exit
Environments
Run Test
Autosave
CODE
VISUAL
Data Sets
Vault Beta
HTTP Client
S
Variable artistId
VARIABLE
string: ${WSCrypto.genUUID()}
POST → ${protocol}${domain}${endpoint}
POST REQUEST
Mode: json Var: payload Expect: - Params: []
Pb
application/json request body → {"artist_name": "Oasis"..."genres": "Rock, Pop" }
Edit
H
Content-Type header → ${ContentType}
H
api-key header → ${apiKey}

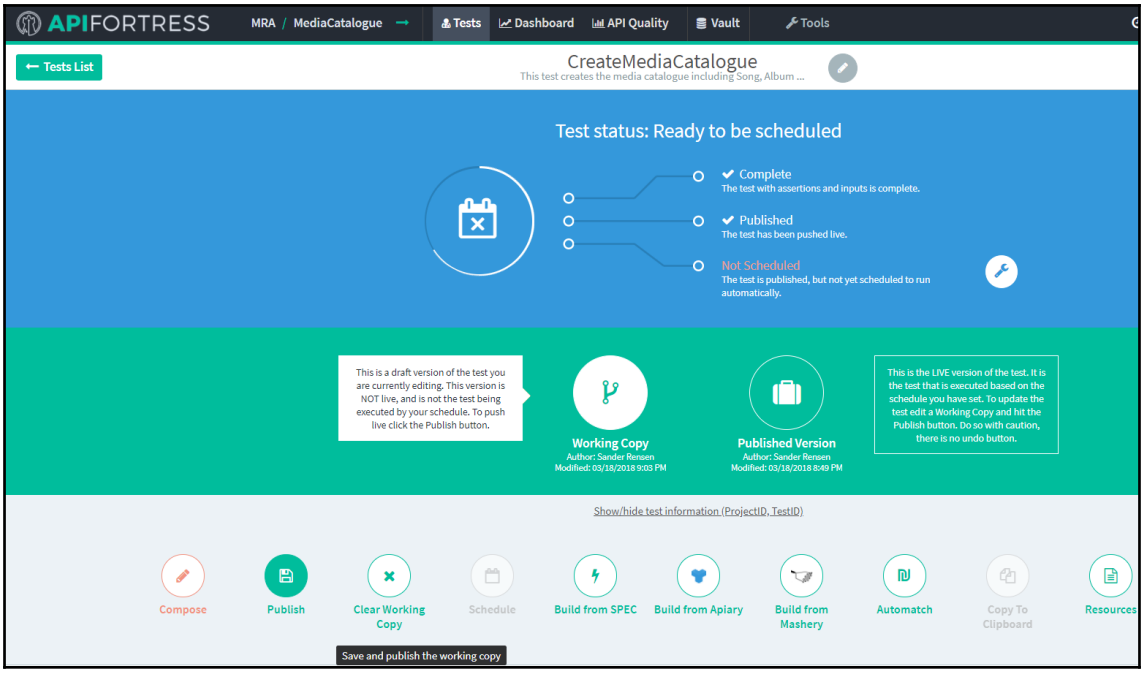

Pb
Post body
You are editing this component
Content-Type
application/json
Content
{"artist_name": "Oasis",
"artist_id": "${artistId}",
"country": "UK",
"bio": "Oasis is a great band from Manchester",
"genres": "Rock, Pop"
}

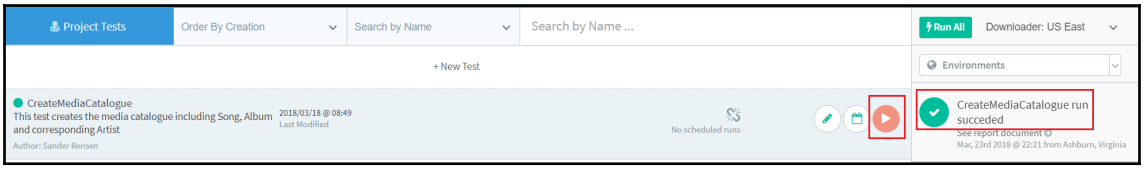

CreateMediaCatalogue
Save
Save & Exit
Environments
Run Test
Autosave
Data Sets
Vault Beta
HTTP Client
Run Test
Downloader
EU West
Cancel
Run Test

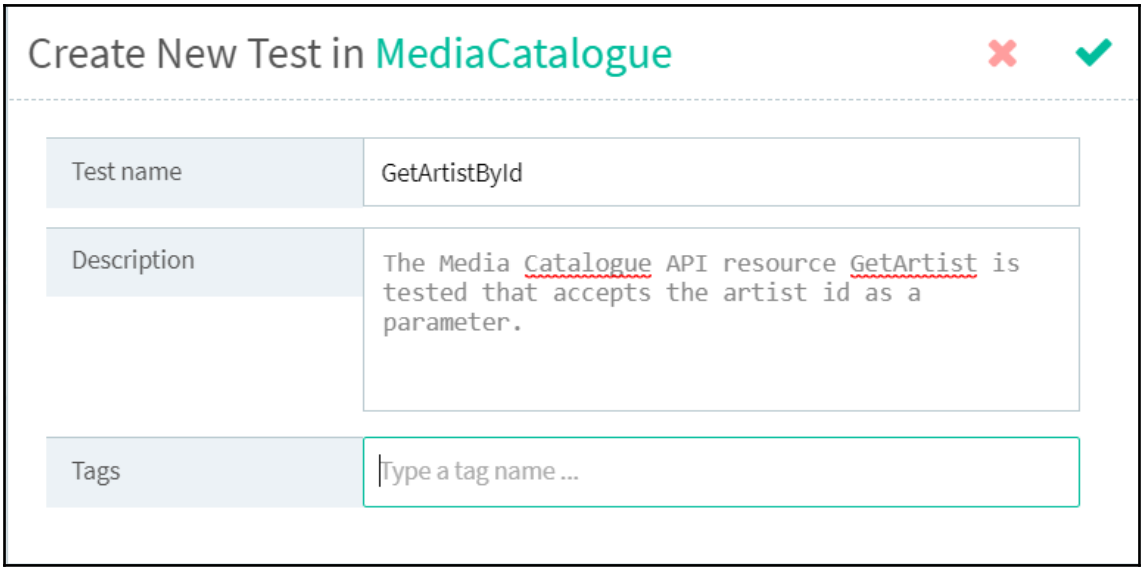

Test Report
Project:
Event Date:
Test:
Location:
Mode:
Summary
Response : Test passed
Failures : 0
Events quick view
Input Set : default
Assertions failures : 0
Http failures : 0
Details on the events follow
USED INPUT-SET : DEFAULT
Request Details
Copy
host: oc-144-21-66-168.compute.oraclecloud.com
Content-Type: application/json
api-key: 64b56ec7-cef0-4359-840d-3fb0eef9cfa7
user-agent: Apache-HttpClient/4.3.2 (java 1.5)
accept-encoding: gzip, deflate
"artist_id": "bf4bab37-5282-4214-bd3b-79dbe7d61d14",
"country": "UK",
"bio": "Oasis is a great band from Manchester",
"genres": "Rock, Pop"
Stack Details
headers
Connection=keep-alive
Date=Sun, 18 Mar 2018 15:58:17 GMT
Server=Cowboy
Content-Length=0
Content-Type=application/json; charset=utf-8
Access-Control-Max-Age=10
X-Apiary-Ratelimit-Remaining=119
Access-Control-Allow-Methods=OPTIONS,GET,HEAD,POST,PUT,DELETE,TRACE,CONNECT
X-Apiary-Transaction-Id=5aae8c9960cca40a001b31d8

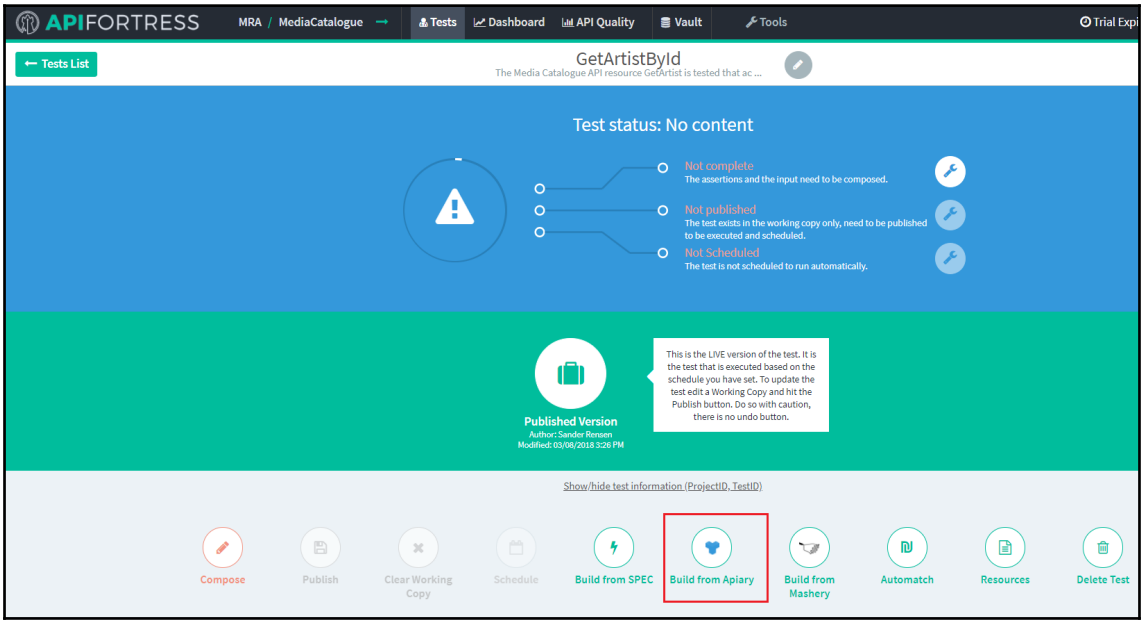

POST → ${protocol}${domain}${endpoint}
POST REQUEST Mode: text Var: payload Expect: - Params: [:]
Pb application/json request body → {"artist_name": "Oasis"..."genres": "Rock, Pop" }
H Content-Type header → ${ContentType}
Add component before
Add component after
Add child to component "C" key
Edit component Double-click or "E" key
Clone component
Remove component "Backspace" key

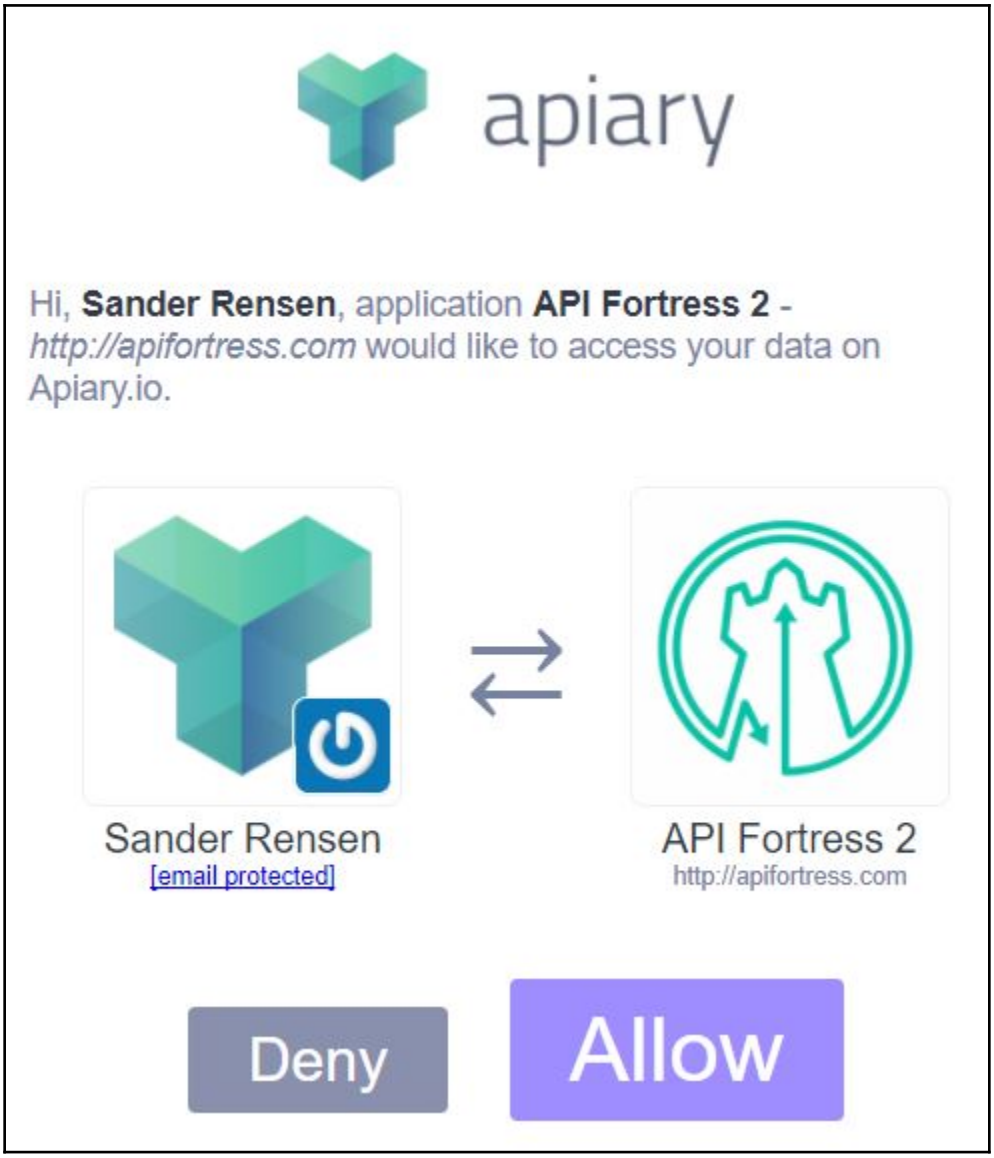

S
Variable artistId
VARIABLE
string: ${WSCrypto.genUUID()}
POST → ${protocol}${domain}${endpoint}
POST REQUEST
Mode: text Var: payload Expect: - Params: [:]
Pb
application/json request body → {"artist_name": "Oasis"..."genres": "Rock, Pop" }
H
Content-Type header → ${ContentType}
H
api-key header → ${apiKey}
S
Variable endpoint
VARIABLE
string: /catalogue/albums
S
Variable albumId
VARIABLE
string: ${WSCrypto.genUUID()}
POST → ${protocol}${domain}${endpoint}
POST REQUEST
Mode: text Var: payload Expect: - Params: [:]
Pb
application/json request body → { "album_name": "(Wha...d": "${artistId}" } }
H
Content-Type header → ${ContentType}
H
api-key header → ${apiKey}


APIFORTRESS
MRA / MediaCatalogue
Tests
Dashboard
API Quality
Vault
Tools
Tests List
CreateMediaCatalogue
This test creates the media catalogue including Song, Album ...
Test status: Ready to be scheduled
Complete
The test with assertions and inputs is complete.
Published
The test has been pushed live.
Not Scheduled
The test is published, but not yet scheduled to run automatically.
This is a draft version of the test you are currently editing. This version is NOT live, and is not the test being executed by your schedule. To push live click the Publish button.
Working Copy
Author: Sander Rensen
Modified: 03/18/2018 9:03 PM
Published Version
Author: Sander Rensen
Modified: 03/18/2018 8:49 PM
This is the LIVE version of the test. It is the test that is executed based on the schedule you have set. To update the test edit a Working Copy and hit the Publish button. Do so with caution, there is no undo button.
Show/hide test information (ProjectID, TestID)
Compose
Publish
Clear Working Copy
Schedule
Build from SPEC
Build from Apiary
Build from Mashery
Automatch
Copy To Clipboard
Resources
Save and publish the working copy

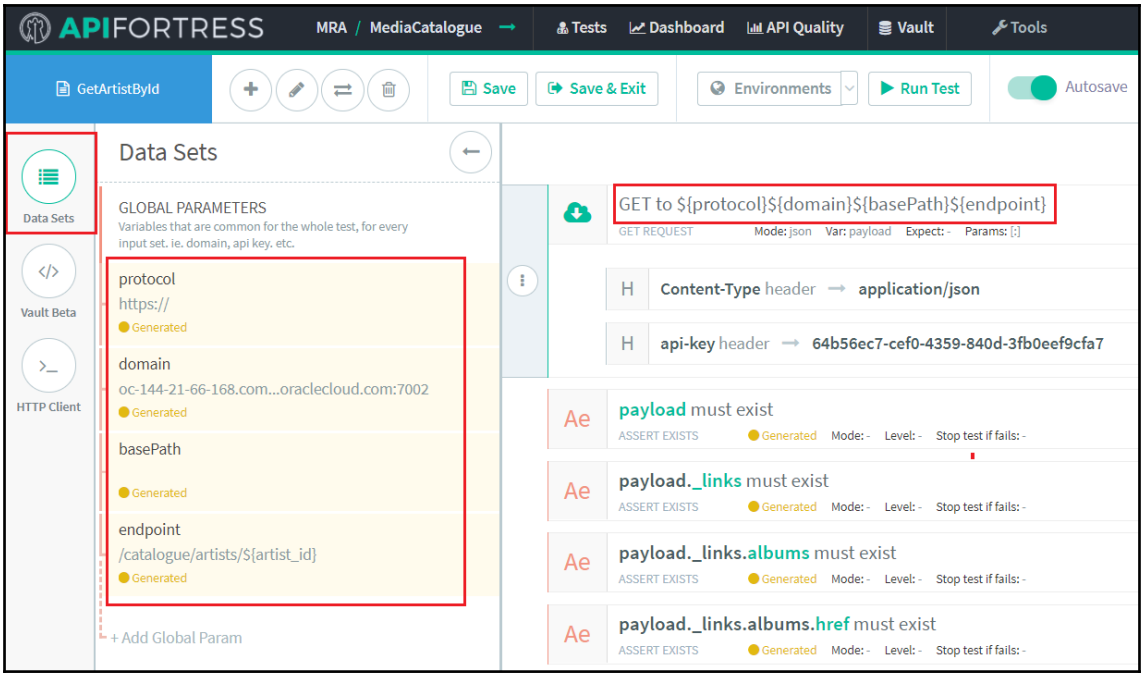

Project Tests
Order By Creation
Search by Name
Search by Name ...
Run All
Downloader: US East
+ New Test
Environments
CreateMediaCatalogue
This test creates the media catalogue including Song, Album and corresponding Artist
Author: Sander Rensen
2018/03/18 @ 08:49
Last Modified
No scheduled runs
CreateMediaCatalogue run succeded
See report document
Mar, 23rd 2018 @ 22:21 from Ashburn, Virginia

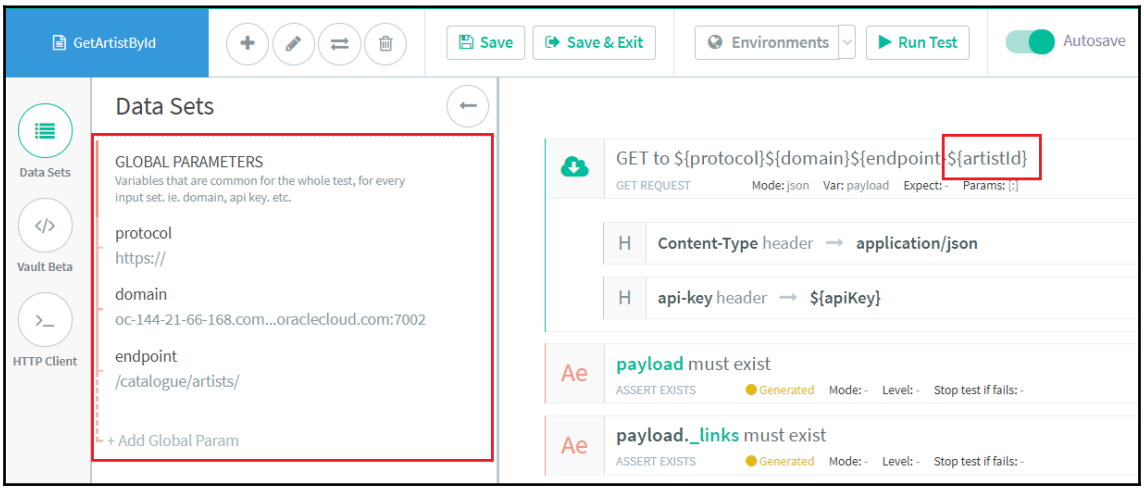

Create New Test in MediaCatalogue
Test name
GetArtistById
Description
The Media Catalogue API resource GetArtist is tested that accepts the artist id as a parameter.
Tags
Type a tag name ...

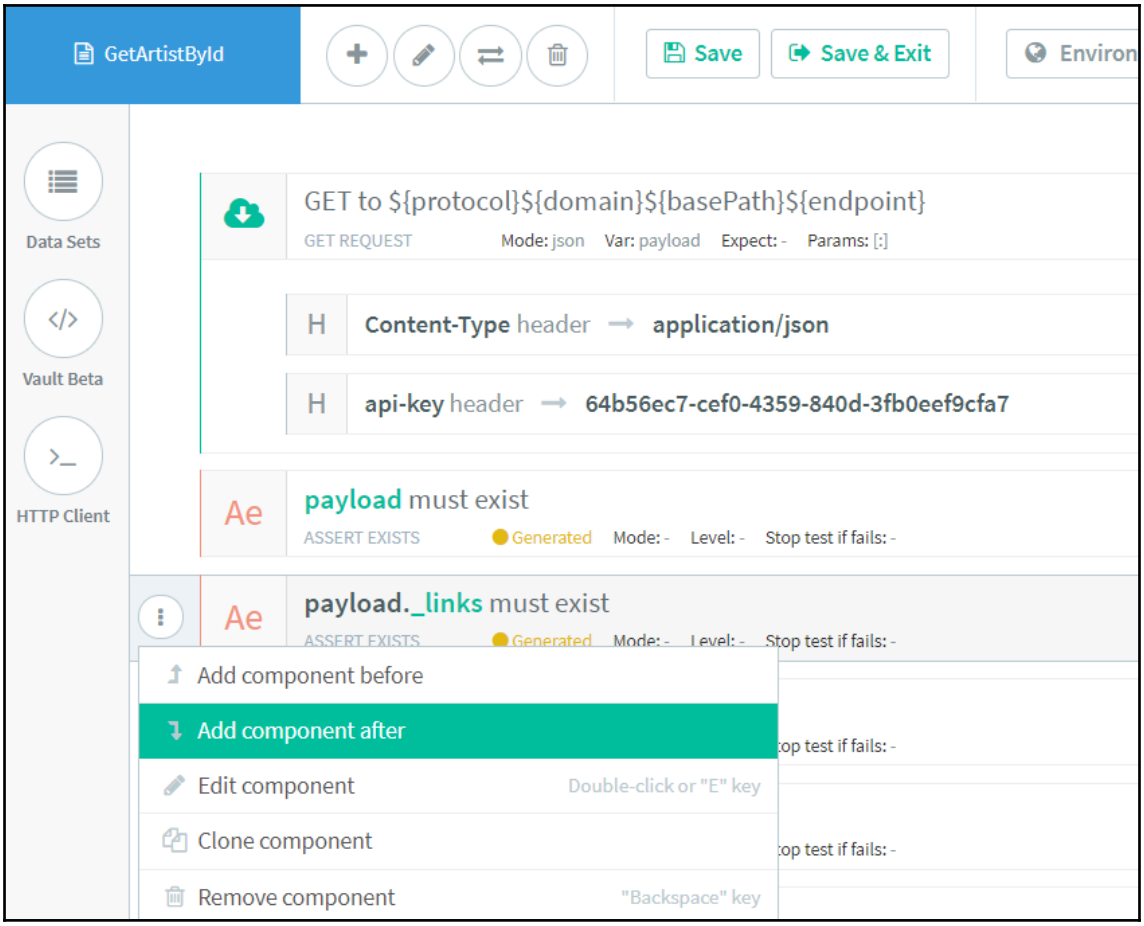

APIFORTRESS
MRA / MediaCatalogue
Tests
Dashboard
API Quality
Vault
Tools
Trial Expi
Tests List
GetArtistById
The Media Catalogue API resource GetArtist is tested that ac ...
Test status: No content
Not complete
The assertions and the input need to be composed.
Not published
The test exists in the working copy only, need to be published to be executed and scheduled.
Not Scheduled
The test is not scheduled to run automatically.
Published Version
Author: Sander Rensen
Modified: 03/08/2018 3:26 PM
This is the LIVE version of the test. It is the test that is executed based on the schedule you have set. To update the test edit a Working Copy and hit the Publish button. Do so with caution, there is no undo button.
Show/hide test information (ProjectID, TestID)
Compose
Publish
Clear Working Copy
Schedule
Build from SPEC
Build from Apiary
Build from Mashery
Automatch
Resources
Delete Test

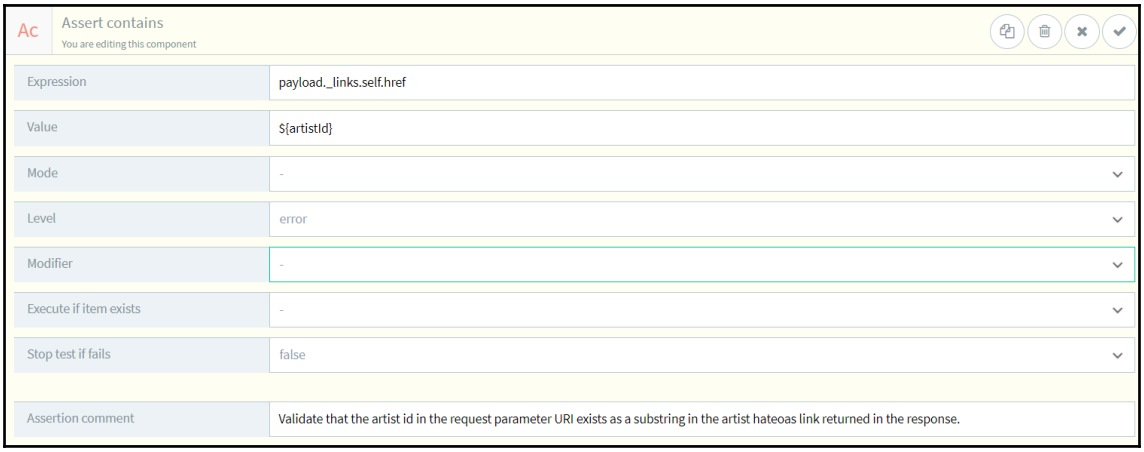

apiary
Hi, Sander Rensen, application API Fortress 2 - http://apifortress.com would like to access your data on Apiary.io.
Sander Rensen

API Fortress 2
http://apifortress.com
Deny
Allow


APIFORTRESS
MRA / MediaCatalogue
Tests
Dashboard
API Quality
Vault
Tools
GetArtistById
Save
Save & Exit
Environments
Run Test
Autosave
Data Sets
Vault Beta
HTTP Client
Data Sets
GLOBAL PARAMETERS
Variables that are common for the whole test, for every input set. ie. domain, api key. etc.
protocol
https://
Generated
domain
oc-144-21-66-168.com...oraclecloud.com:7002
Generated
basePath
Generated
endpoint
/catalogue/artists/${artist_id}
Generated
+ Add Global Param
GET to ${protocol}${domain}${basePath}${endpoint}
GET REQUEST
Mode: json
Var: payload
Expect: -
Params: [:]
H
Content-Type header → application/json
H
api-key header → 64b56ec7-cef0-4359-840d-3fb0eef9cfa7
Ae
payload must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -
Ae
payload._links must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -
Ae
payload._links.albums must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -
Ae
payload._links.albums.href must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -


GetArtistById
Save
Save & Exit
Environments
Run Test
Autosave
Data Sets
Vault Beta
HTTP Client
Data Sets
GLOBAL PARAMETERS
Variables that are common for the whole test, for every input set. ie. domain, api key. etc.
protocol
https://
domain
oc-144-21-66-168.com...oraclecloud.com:7002
endpoint
/catalogue/artists/
+ Add Global Param
GET to ${protocol}${domain}${endpoint}${artistId}
GET REQUEST
Mode: json
Var: payload
Expect: -
Params: [:]
H
Content-Type header → application/json
H
api-key header → ${apiKey}
Ae
payload must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -
Ae
payload._links must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -


GetArtistById
Save
Save & Exit
Environ
Data Sets
Vault Beta
HTTP Client
GET to ${protocol}${domain}${basePath}${endpoint}
GET REQUEST
Mode: json
Var: payload
Expect: -
Params: [:]
H
Content-Type header
application/json
H
api-key header
64b56ec7-cef0-4359-840d-3fb0eef9cfa7
Ae
payload must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -
Ae
payload._links must exist
ASSERT EXISTS
Generated
Mode: -
Level: -
Stop test if fails: -
Add component before
Add component after
Edit component
Double-click or "E" key
Clone component
Remove component
"Backspace" key


Ac
Assert contains
You are editing this component
Expression
payload._links.self.href
Value
${artistId}
Mode
-
Level
error
Modifier
-
Execute if item exists
-
Stop test if fails
false
Assertion comment
Validate that the artist id in the request parameter URI exists as a substring in the artist hateoas link returned in the response.

Ac
Assert contains
You are editing this component
Expression
payload._links.self.href
Value
${artistId}
Mode
-
Level
error
Modifier
-
Execute if item exists
-
Stop test if fails
false
Assertion comment
Validate that the artist id in the request parameter URI exists as a substring in the artist hateoas link returned in the response.

MRA

APIFORTRESS

Test Report

Project:	MediaCatalogue
Event Date:	Fri 23 Mar 2018 07:14 PM -04:00
Test:	
Location:	Ashburn, Virginia
Mode:	On request

Summary

Response :	**Test passed**
Failures :	**0**

Events quick view

Input Set :	default
Assertions failures :	**0**
Http failures :	**0**

Details on the events follow

USED INPUT-SET : DEFAULT

GET
get http://oc-144-21-66-168.compute.oraclecloud.com:8001/catalogue/artists/544a5b42-627d-427a-8205-1e5754dc6716

Latency: 75ms Download: 645ms

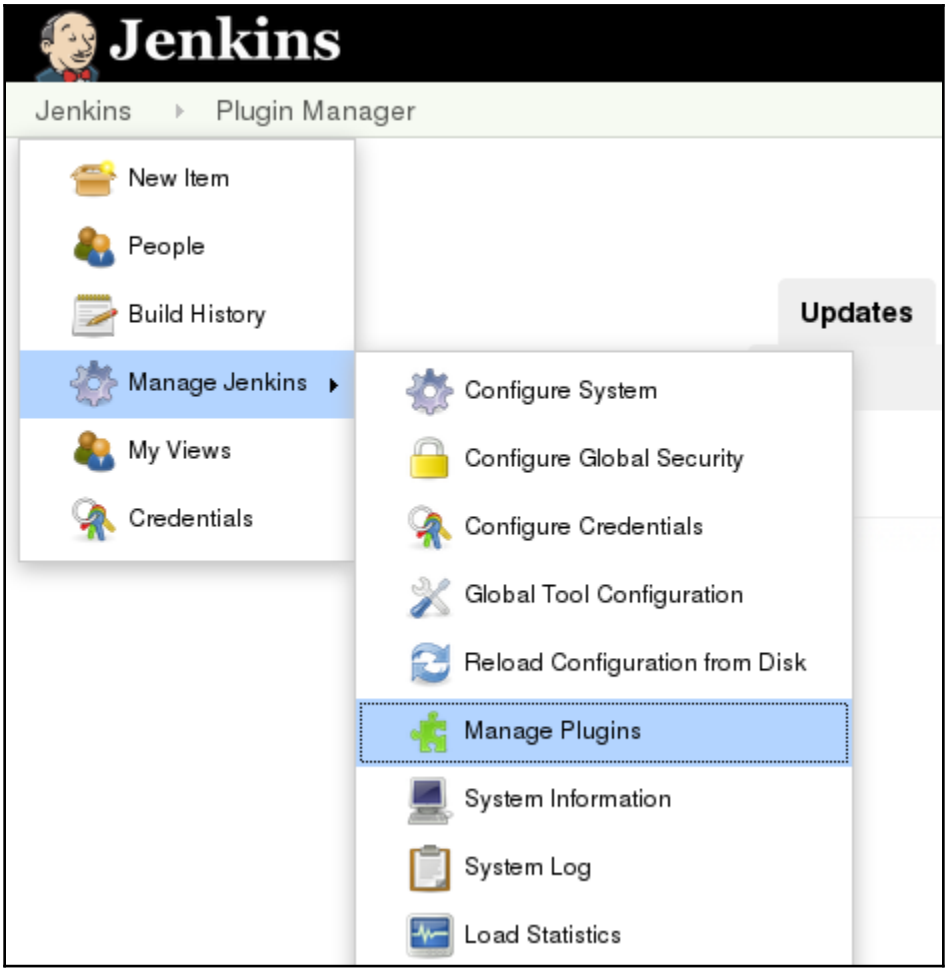
STATUS: 200

See Request

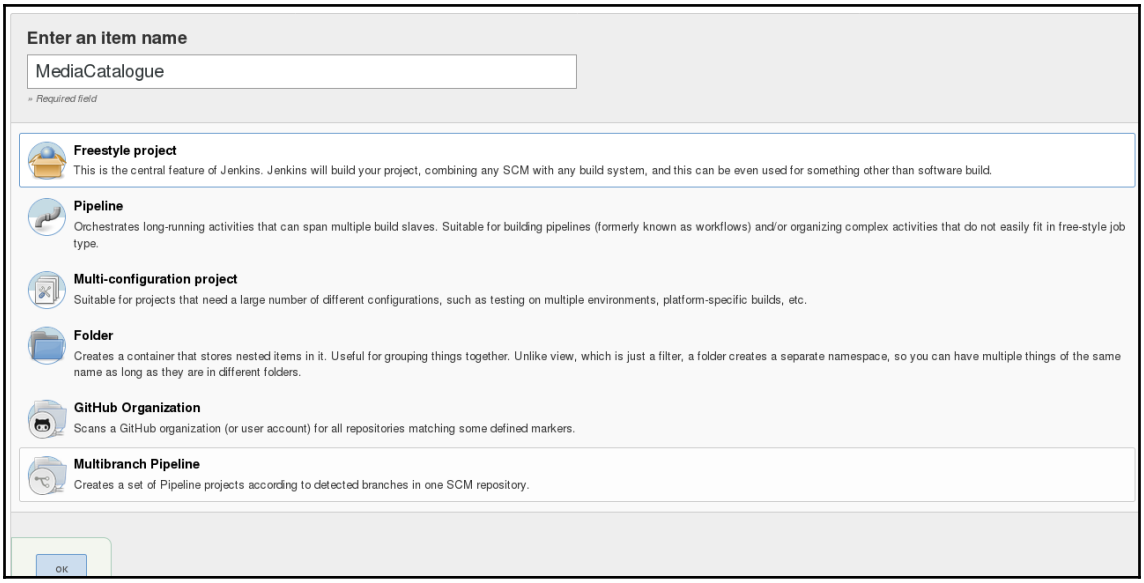
A ASSERT-CONTAINS
payload._links.albums.href~${artistId}

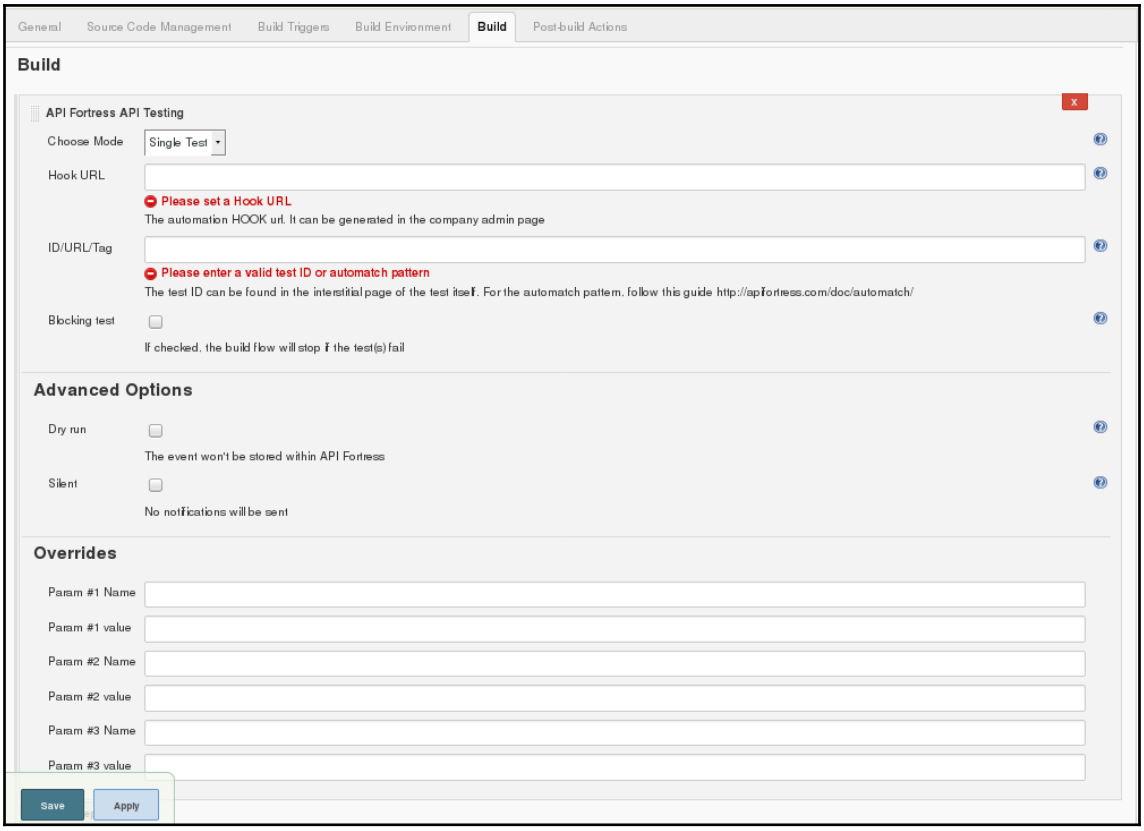
Validate that the artist id in the request parameter URI exists as a substring in the album hateoas link returned in the response.

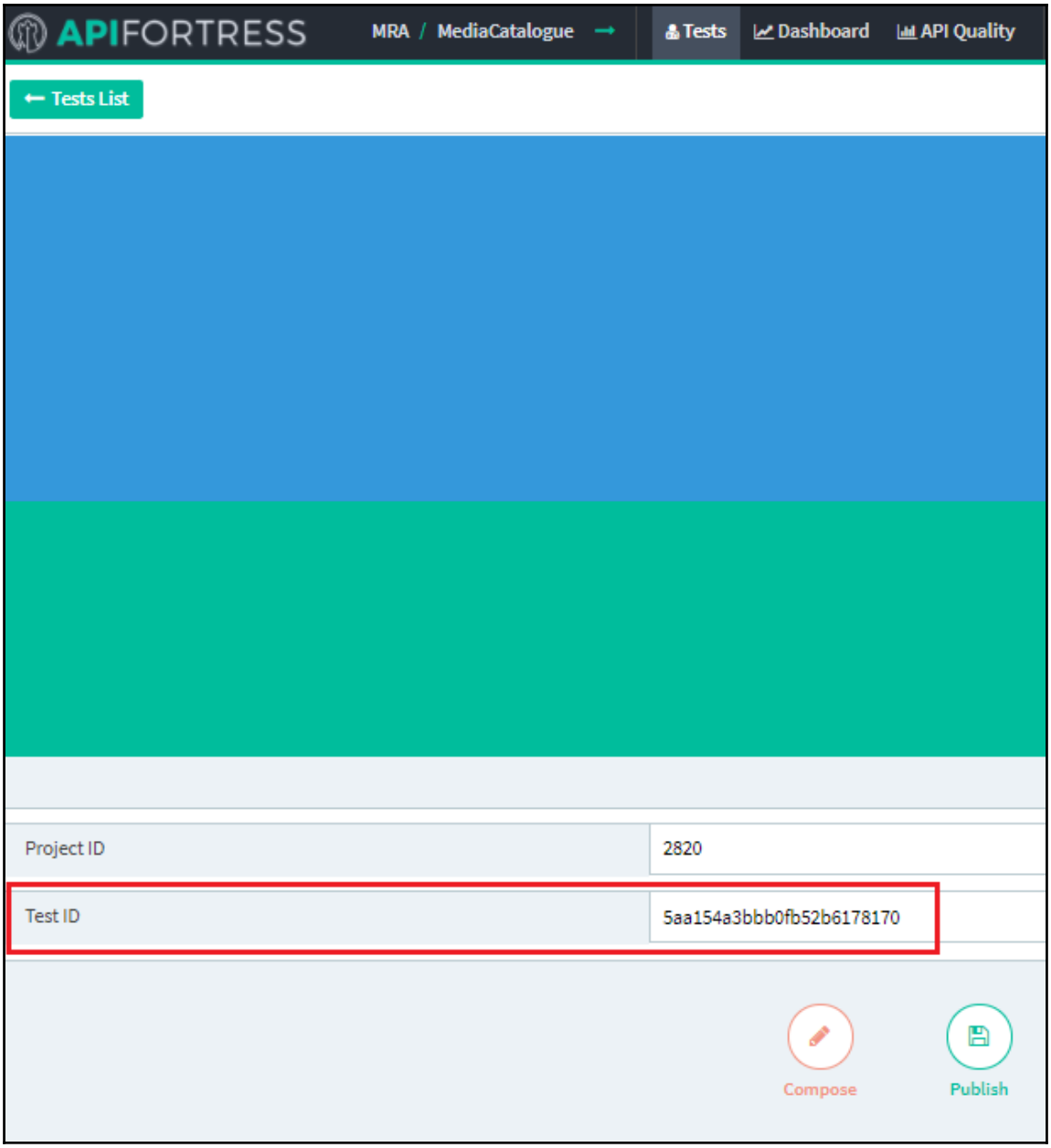
A ASSERT-CONTAINS
payload._links.self.href~${artistId}

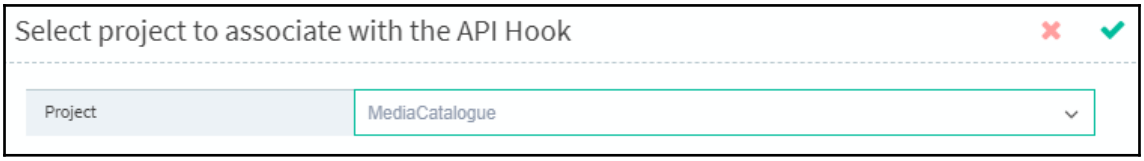

Jenkins
Jenkins
Plugin Manager
New Item
People
Build History
Manage Jenkins
My Views
Credentials
Updates
Configure System
Configure Global Security
Configure Credentials
Global Tool Configuration
Reload Configuration from Disk
Manage Plugins
System Information
System Log
Load Statistics

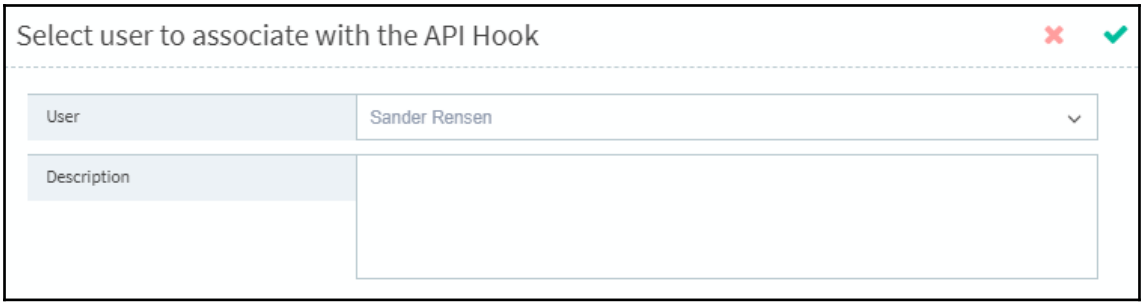
Filter: API Fortress
Updates
Available
Installed
Advanced
Enabled
Name
Version
Previously installed version
Uninstall
API Fortress
This plugin allows you to integrate API Fortress API testing in your Jenkins CI projects.
1.0
Uninstall
bouncycastle API Plugin
This plugin provides an stable API to Bouncy Castle related tasks.
2.16.2
Uninstall
Command Agent Launcher Plugin
Allows agents to be launched using a specified command.
1.2
Uninstall

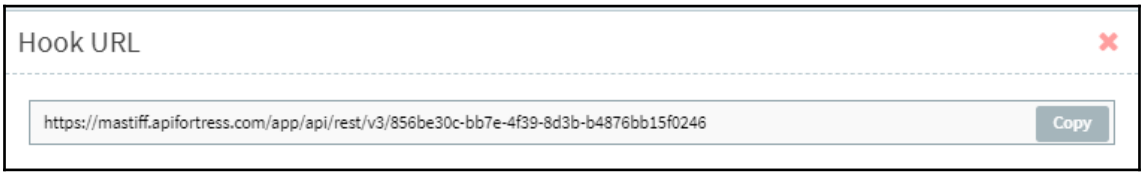

Enter an item name
MediaCatalogue
» Required field
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
Pipeline
Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
GitHub Organization
Scans a GitHub organization (or user account) for all repositories matching some defined markers.
Multibranch Pipeline
Creates a set of Pipeline projects according to detected branches in one SCM repository.
OK

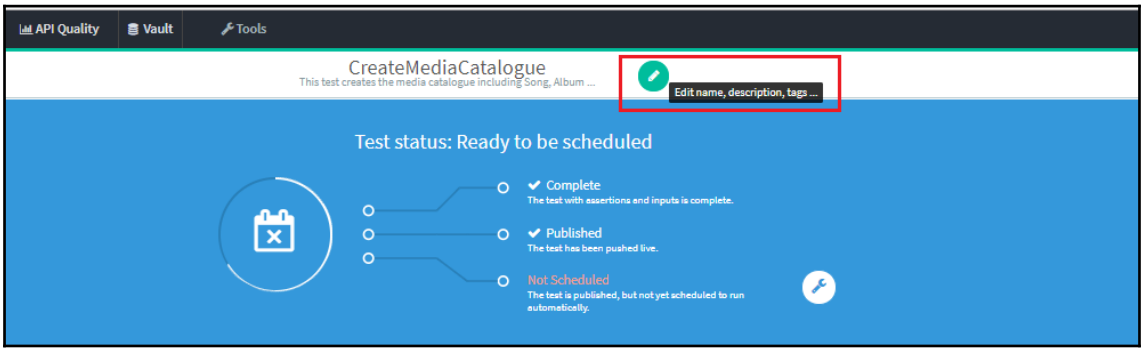

General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Build
API Fortress API Testing
x
Choose Mode
Single Test
Hook URL
Please set a Hook URL
The automation HOOK url. It can be generated in the company admin page
ID/URL/Tag
Please enter a valid test ID or automatch pattern
The test ID can be found in the interstitial page of the test itself. For the automatch pattern, follow this guide http://apifortress.com/doc/automatch/
Blocking test
If checked, the build flow will stop if the test(s) fail
Advanced Options
Dry run
The event won't be stored within API Fortress
Silent
No notifications will be sent
Overrides
Param #1 Name
Param #1 value
Param #2 Name
Param #2 value
Param #3 Name
Param #3 value
Save
Apply

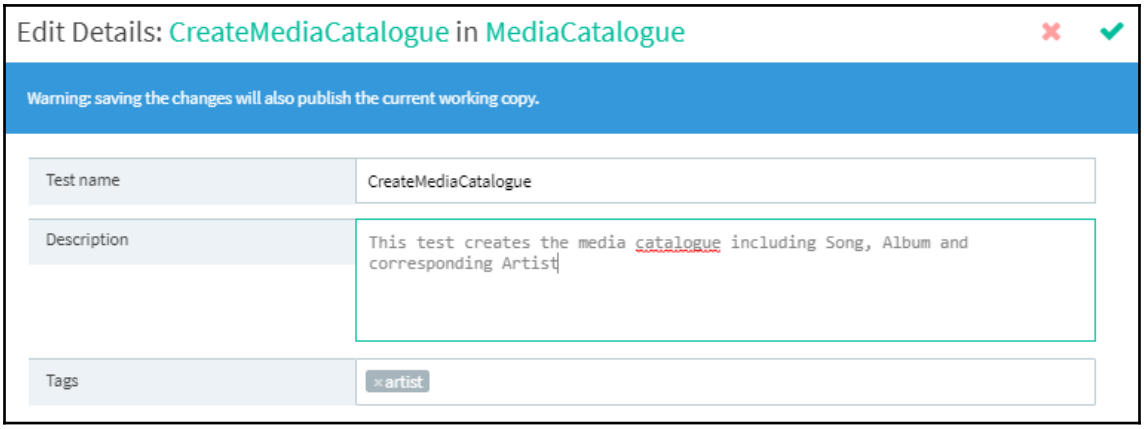

APIFORTRESS
MRA / MediaCatalogue
Tests
Dashboard
API Quality
Tests List
Project ID
2820
Test ID
5aa154a3bbb0fb52b6178170
Compose
Publish

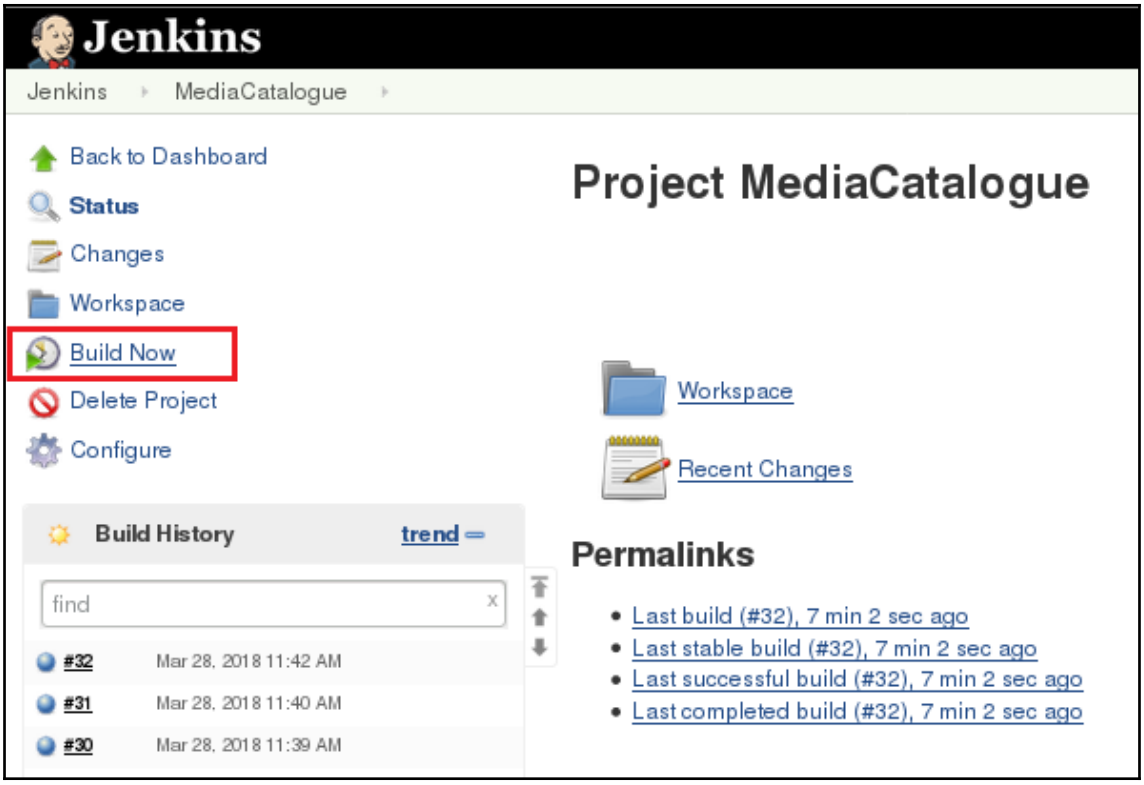

Select project to associate with the API Hook
Project
MediaCatalogue


Select user to associate with the API Hook
User
Sander Rensen
Description

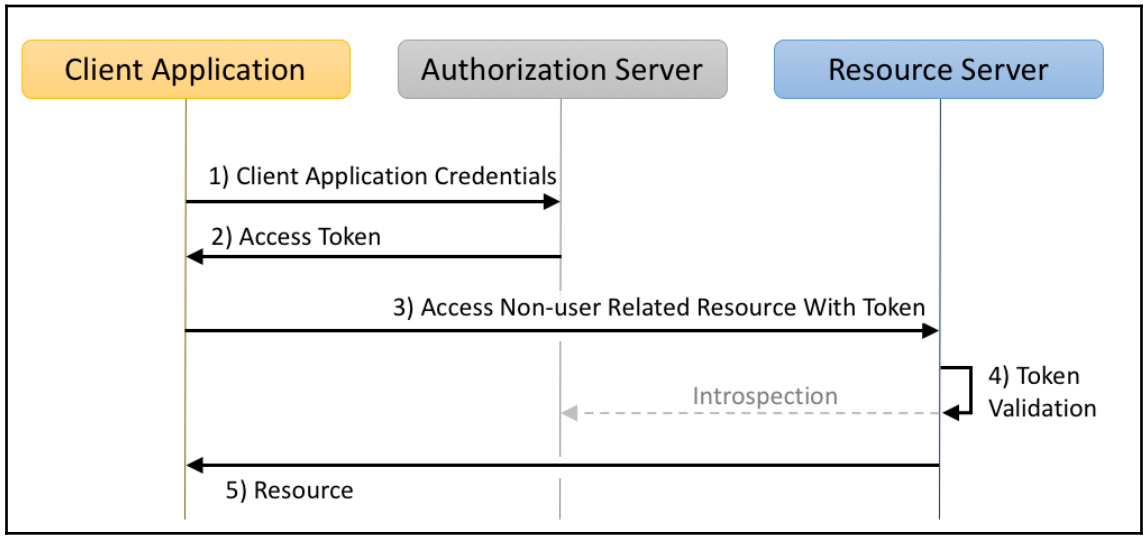

Hook URL
https://mastiff.apifortress.com/app/api/rest/v3/856be30c-bb7e-4f39-8d3b-b4876bb15f0246
Copy

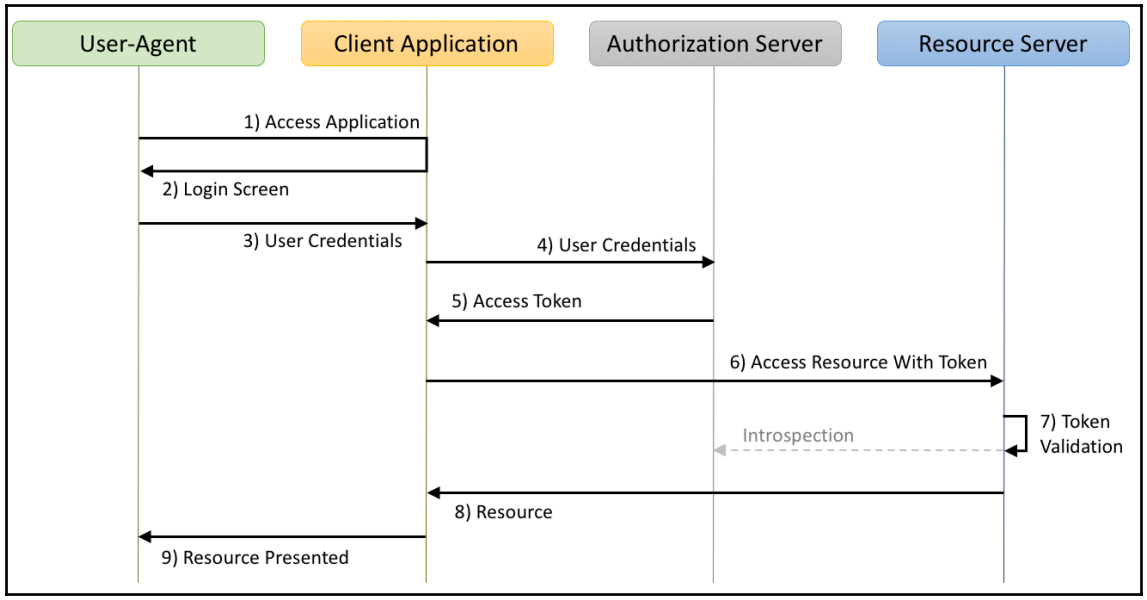

API Quality
Vault
Tools
CreateMediaCatalogue
This test creates the media catalogue including Song, Album ...
Edit name, description, tags ...
Test status: Ready to be scheduled
Complete
The test with assertions and inputs is complete.
Published
The test has been pushed live.
Not Scheduled
The test is published, but not yet scheduled to run automatically.

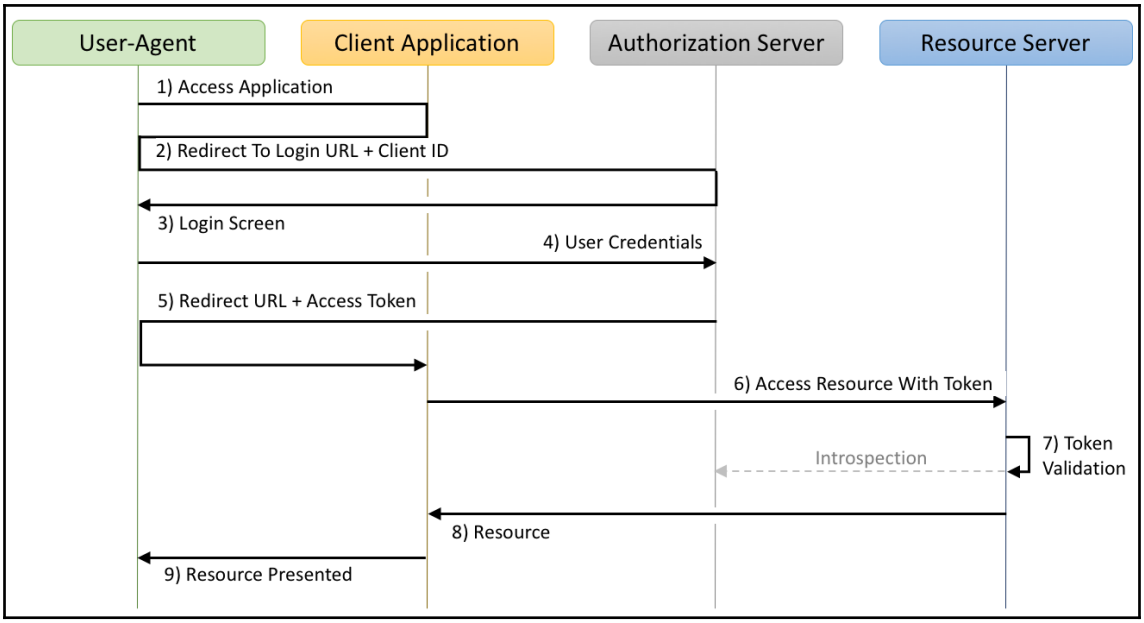

Edit Details: CreateMediaCatalogue in MediaCatalogue
Warning: saving the changes will also publish the current working copy.
Test name
CreateMediaCatalogue
Description
This test creates the media catalogue including Song, Album and corresponding Artist
Tags
×artist

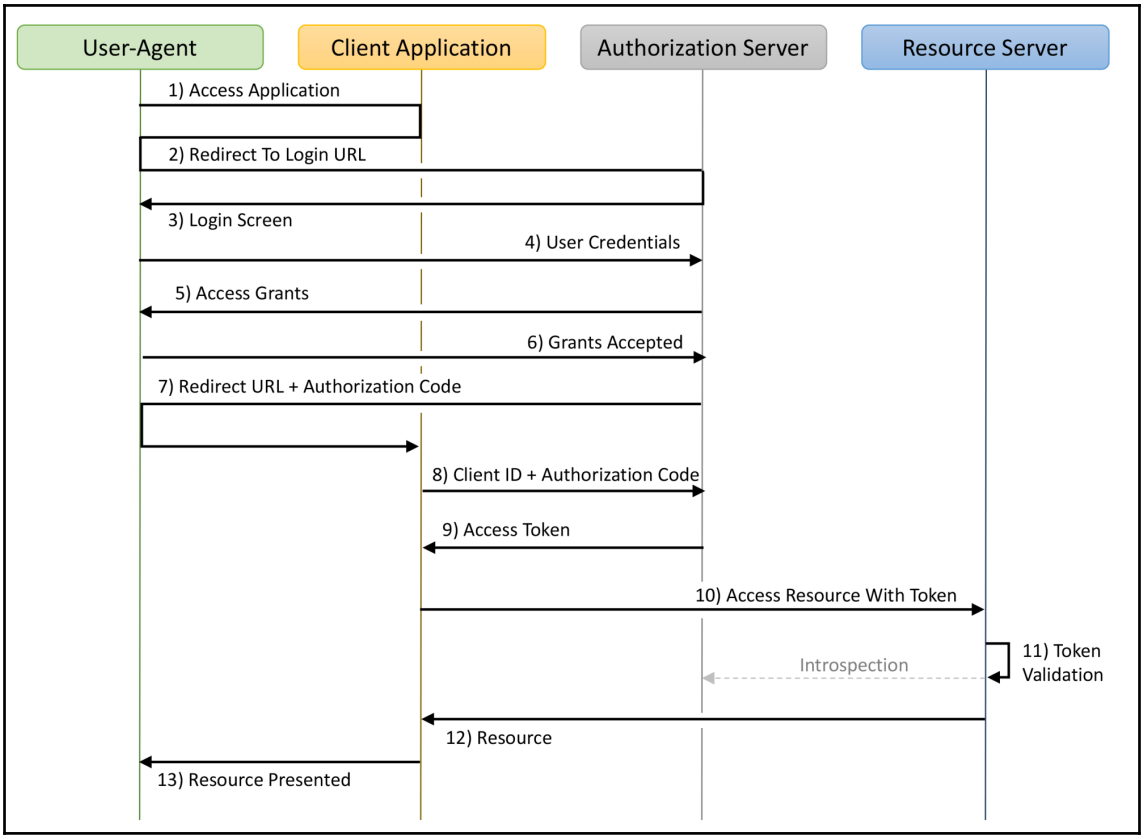

Jenkins
Jenkins
MediaCatalogue
Back to Dashboard
Status
Changes
Workspace
Build Now
Delete Project
Configure
Project MediaCatalogue
Workspace
Recent Changes
Permalinks
Last build (#32), 7 min 2 sec ago
Last stable build (#32), 7 min 2 sec ago
Last successful build (#32), 7 min 2 sec ago
Last completed build (#32), 7 min 2 sec ago
Build History
trend
find
#32 Mar 28, 2018 11:42 AM
#31 Mar 28, 2018 11:40 AM
#30 Mar 28, 2018 11:39 AM

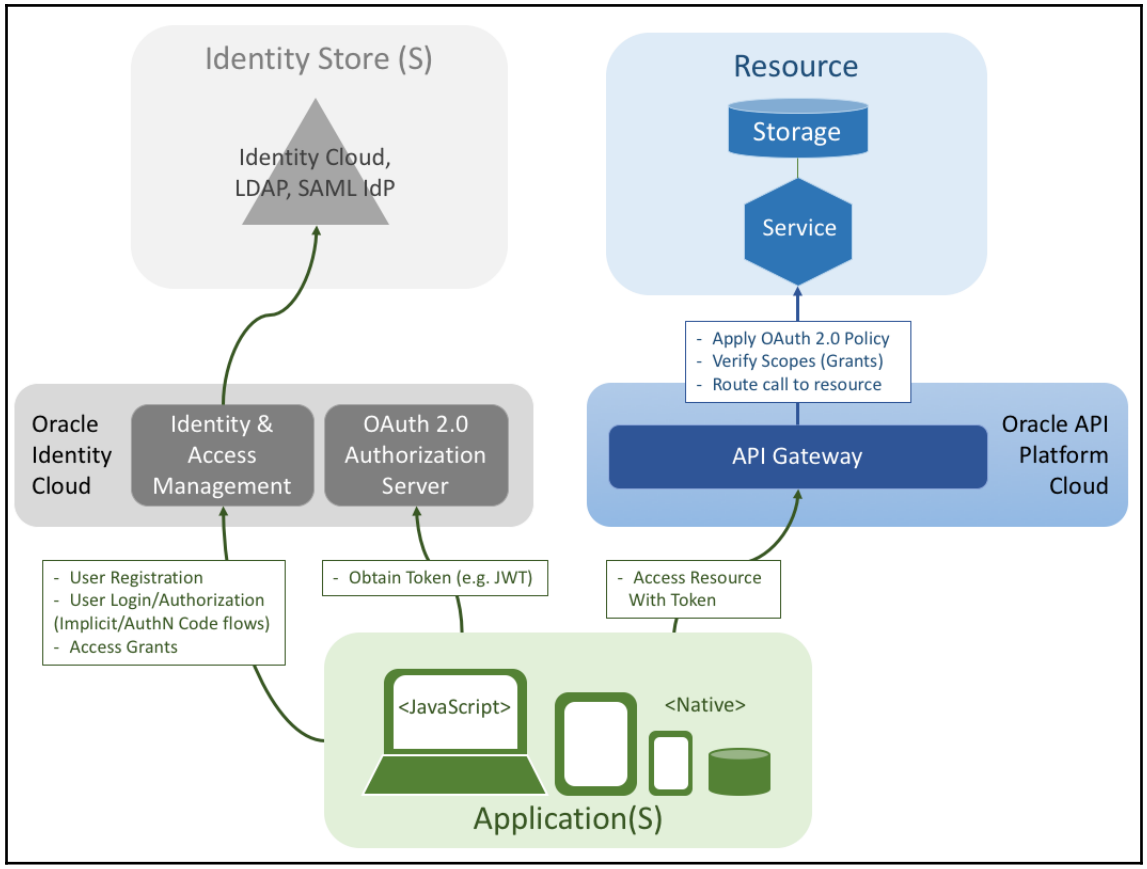
Chapter 8: Implementing OAuth 2.0

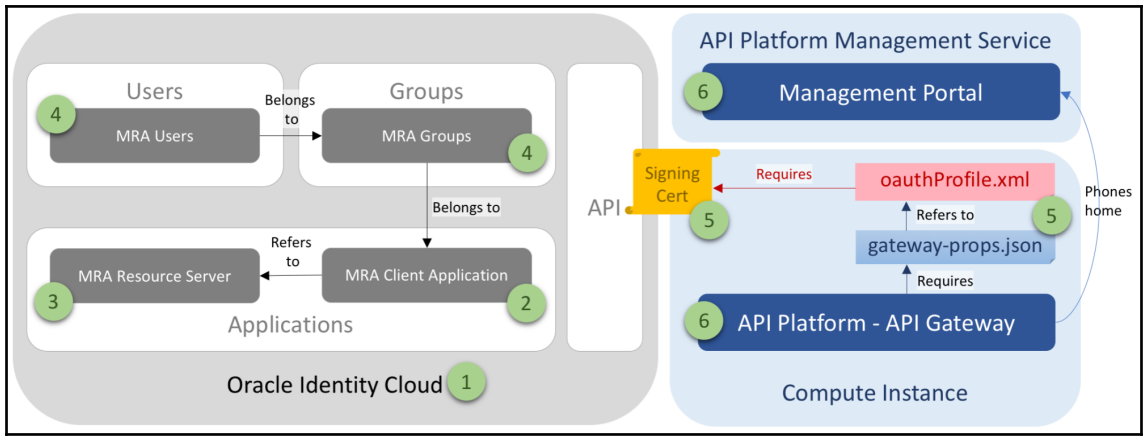


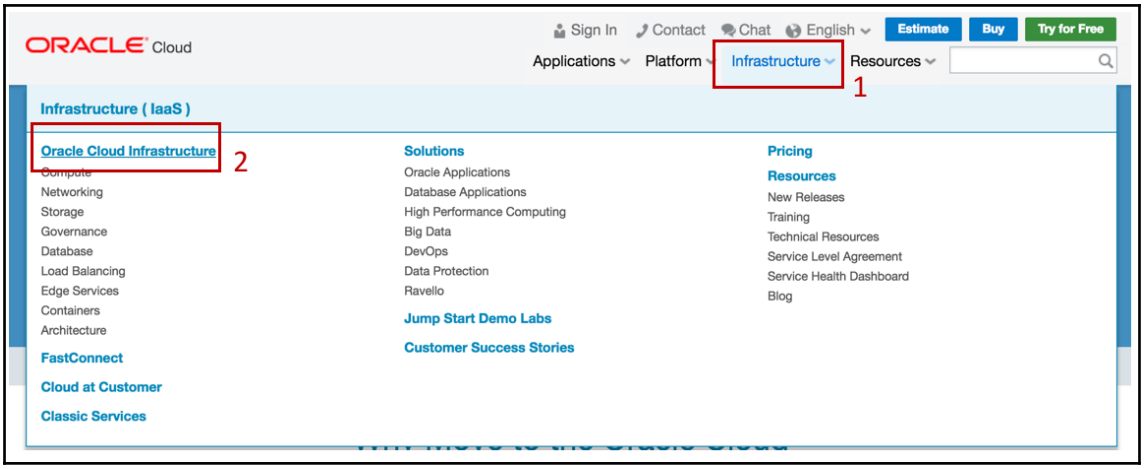


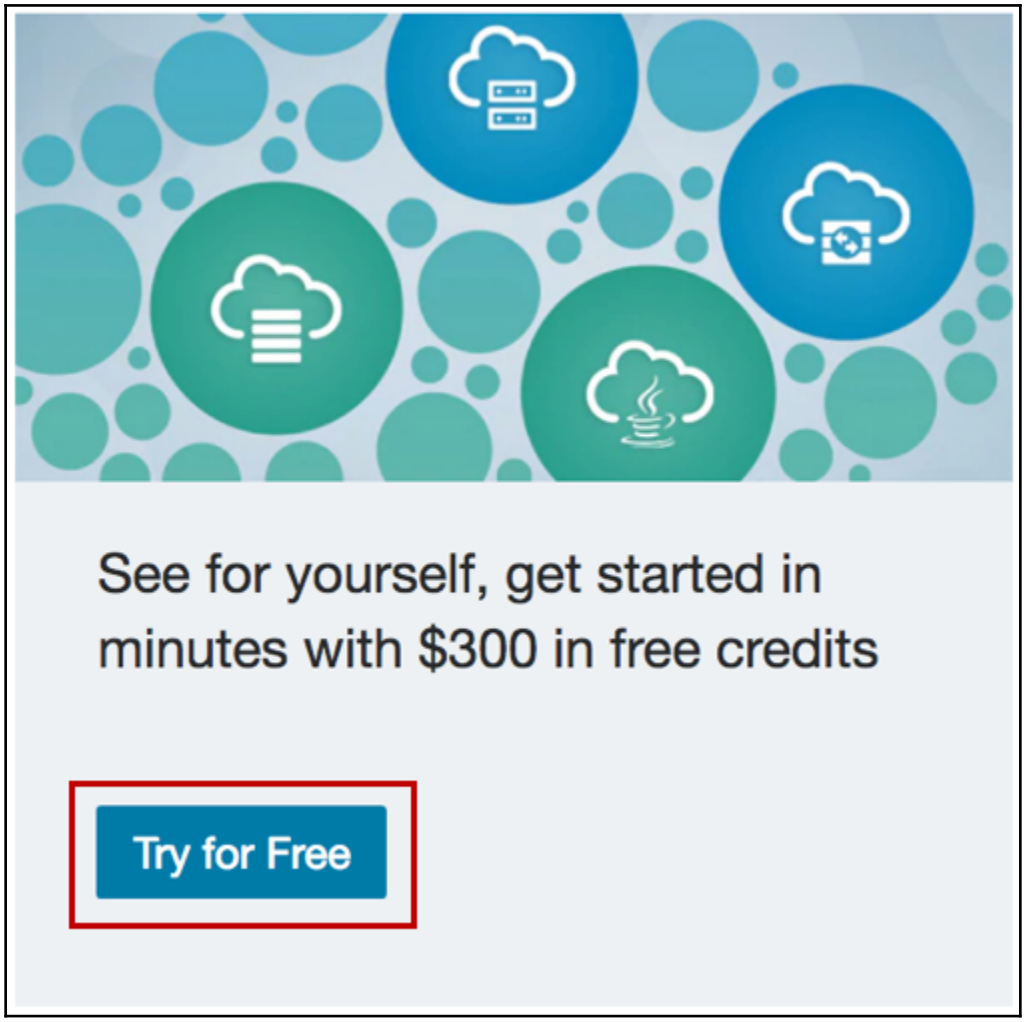

User-Agent
Client Application
Authorization Server
Resource Server
1) Access Application
2) Redirect To Login URL + Client ID
3) Login Screen
4) User Credentials
5) Redirect URL + Access Token
6) Access Resource With Token
7) Token Validation
Introspection
8) Resource
9) Resource Presented

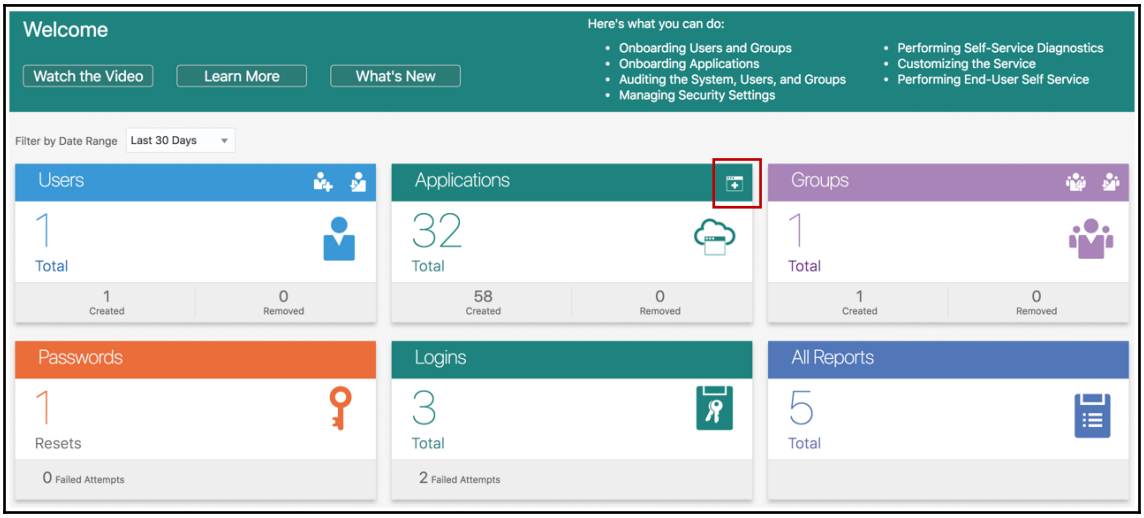

User-Agent
Client Application
Authorization Server
Resource Server
1) Access Application
2) Redirect To Login URL
3) Login Screen
4) User Credentials
5) Access Grants
6) Grants Accepted
7) Redirect URL + Authorization Code
8) Client ID + Authorization Code
9) Access Token
10) Access Resource With Token
11) Token Validation
Introspection
12) Resource
13) Resource Presented

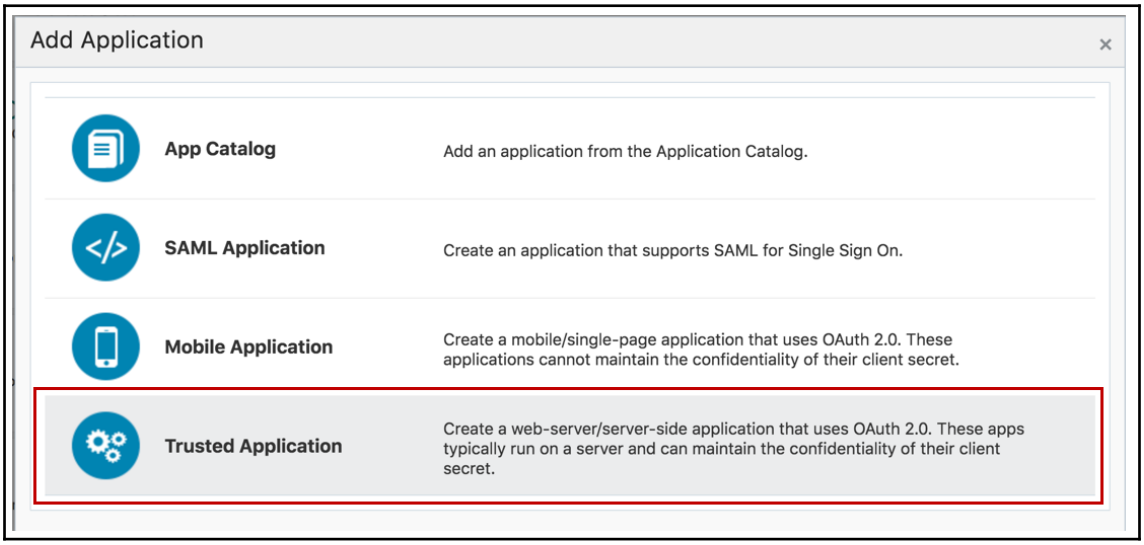

Identity Store (S)
Identity Cloud,
LDAP, SAML IdP
Resource
Storage
Service
- Apply OAuth 2.0 Policy
- Verify Scopes (Grants)
- Route call to resource
Oracle
Identity
Cloud
Identity &
Access
Management
OAuth 2.0
Authorization
Server
API Gateway
Oracle API
Platform
Cloud
- User Registration
- User Login/Authorization
(Implicit/AuthN Code flows)
- Access Grants
- Obtain Token (e.g. JWT)
- Access Resource
With Token
<JavaScript>
<Native>
Application(S)

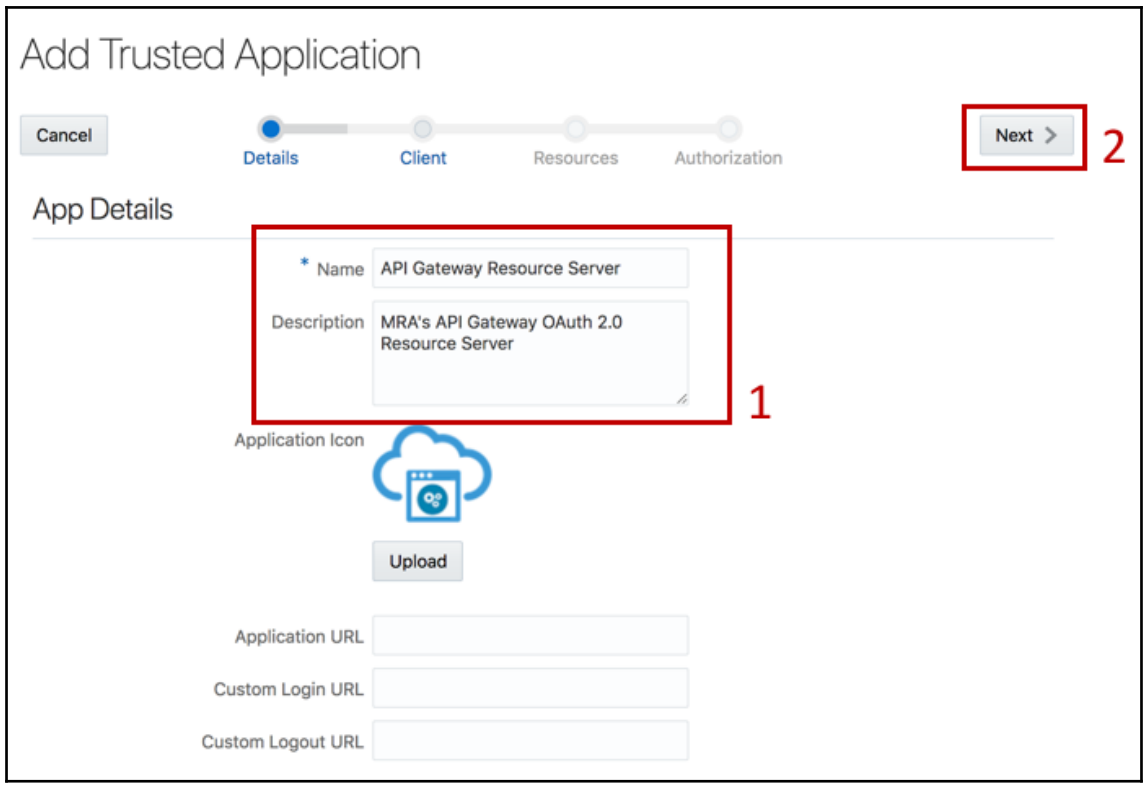

Users
4
MRA Users
Belongs
to
Groups
MRA Groups
4
Belongs to
Refers
to
MRA Resource Server
3
MRA Client Application
2
Applications
API
Oracle Identity Cloud
1
API Platform Management Service
6
Management Portal
Signing
Cert
5
Requires
oauthProfile.xml
5
Refers to
gateway-props.json
Requires
6
API Platform - API Gateway
Phones
home
Compute Instance

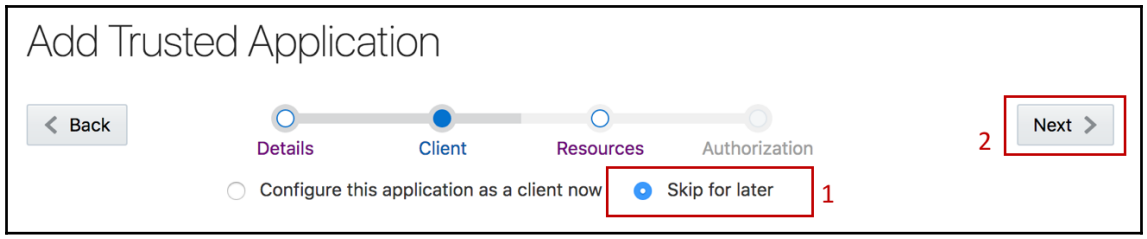

ORACLE Cloud
Sign In
Contact
Chat
English
Estimate
Buy
Try for Free
Applications
Platform
Infrastructure
Resources
1
Infrastructure (IaaS)
Oracle Cloud Infrastructure
2
Compute
Networking
Storage
Governance
Database
Load Balancing
Edge Services
Containers
Architecture
FastConnect
Cloud at Customer
Classic Services
Solutions
Oracle Applications
Database Applications
High Performance Computing
Big Data
DevOps
Data Protection
Ravello
Jump Start Demo Labs
Customer Success Stories
Pricing
Resources
New Releases
Training
Technical Resources
Service Level Agreement
Service Health Dashboard
Blog

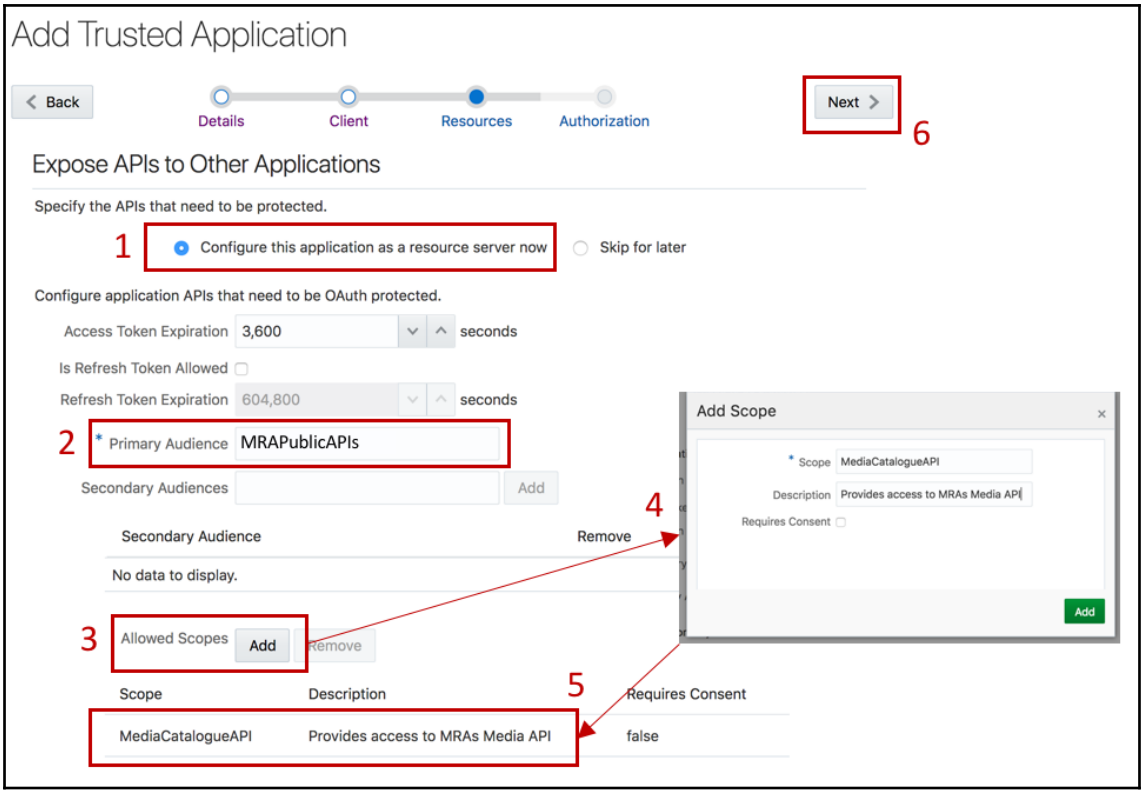

See for yourself, get started in minutes with $300 in free credits
Try for Free


Welcome
Watch the Video
Learn More
What's New
Here's what you can do:
Onboarding Users and Groups
Onboarding Applications
Auditing the System, Users, and Groups
Managing Security Settings
Performing Self-Service Diagnostics
Customizing the Service
Performing End-User Self Service
Filter by Date Range
Last 30 Days
Users
1
Total
1
Created
0
Removed
Applications
32
Total
58
Created
0
Removed
Groups
1
Total
1
Created
0
Removed
Passwords
1
Resets
0 Failed Attempts
Logins
3
Total
2 Failed Attempts
All Reports
5
Total

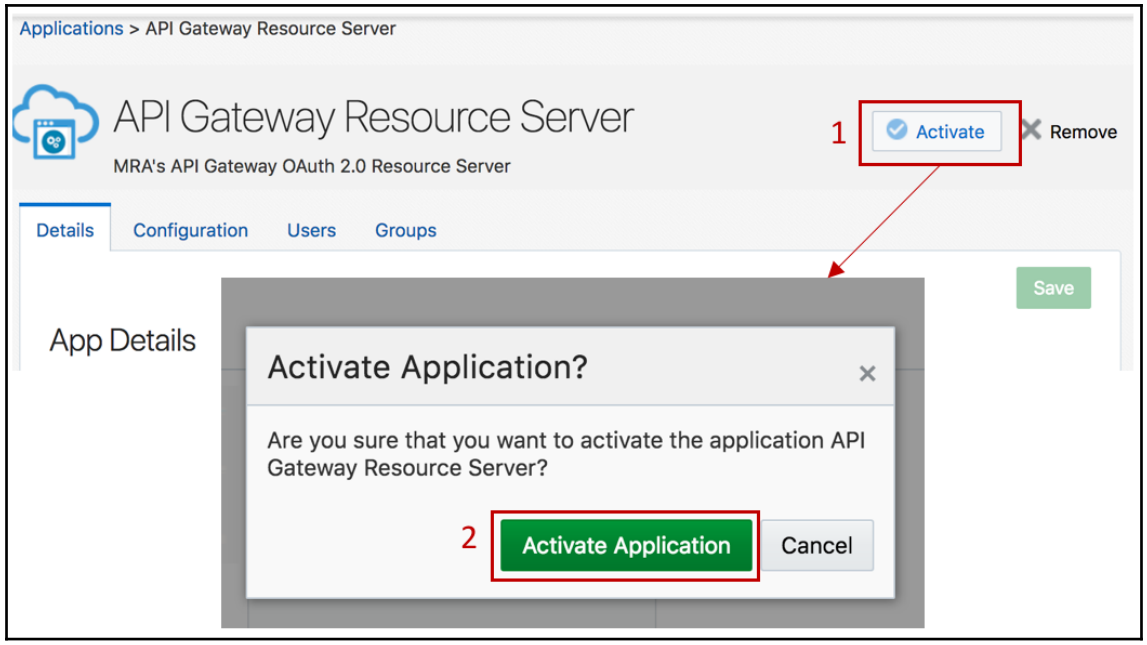

Add Application
App Catalog
Add an application from the Application Catalog.
SAML Application
Create an application that supports SAML for Single Sign On.
Mobile Application
Create a mobile/single-page application that uses OAuth 2.0. These applications cannot maintain the confidentiality of their client secret.
Trusted Application
Create a web-server/server-side application that uses OAuth 2.0. These apps typically run on a server and can maintain the confidentiality of their client secret.

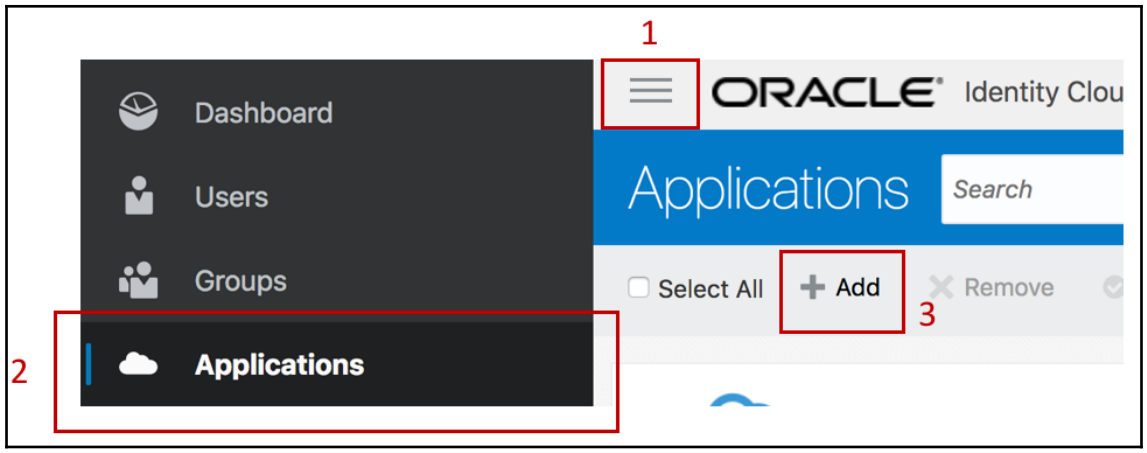

Add Trusted Application
Cancel
Details
Client
Resources
Authorization
Next
2
App Details
* Name
API Gateway Resource Server
Description
MRA's API Gateway OAuth 2.0 Resource Server
1
Application Icon
Upload
Application URL
Custom Login URL
Custom Logout URL

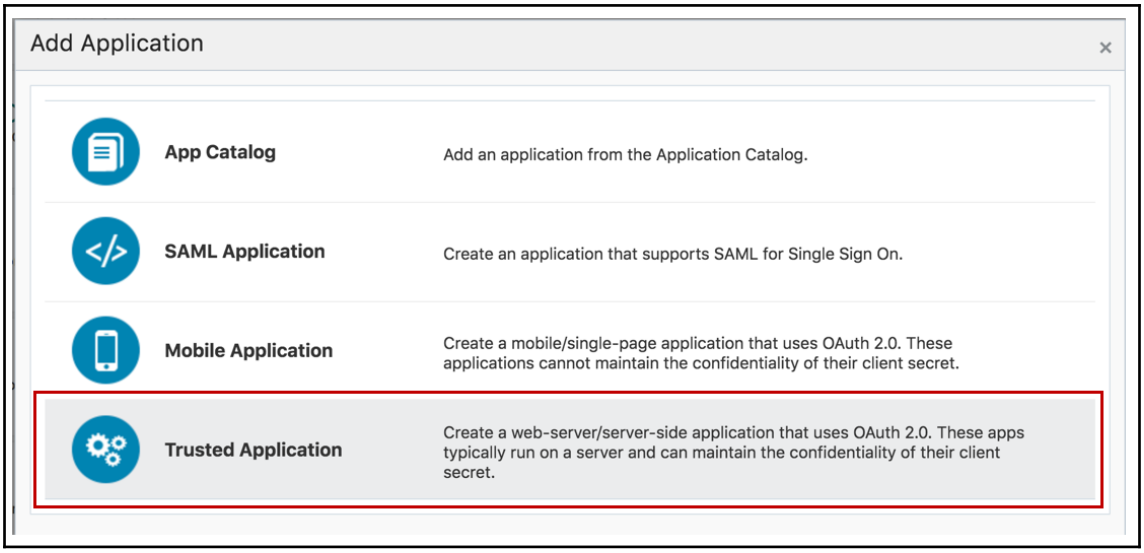

Add Trusted Application
Back
Details
Client
Resources
Authorization
2
Next
Configure this application as a client now
Skip for later
1


Add Trusted Application
Back
Details
Client
Resources
Authorization
Next
6
Expose APIs to Other Applications
Specify the APIs that need to be protected.
1
Configure this application as a resource server now
Skip for later
Configure application APIs that need to be OAuth protected.
Access Token Expiration
3,600
seconds
Is Refresh Token Allowed
Refresh Token Expiration
604,800
seconds
2
Primary Audience
MRAPublicAPIs
Secondary Audiences
Add
Secondary Audience
Remove
No data to display.
3
Allowed Scopes
Add
Remove
Scope
Description
Requires Consent
MediaCatalogueAPI
Provides access to MRAs Media API
false
4
5
Add Scope
Scope
MediaCatalogueAPI
Description
Provides access to MRAs Media API
Requires Consent
Add

Add Trusted Application
Back
Details
Client
Resources
Authorization
Finish
Authorization
Enforce Grants as Authorization


Applications > API Gateway Resource Server
API Gateway Resource Server
MRA's API Gateway OAuth 2.0 Resource Server
1
Activate
Remove
Details
Configuration
Users
Groups
Save
App Details
Activate Application?
Are you sure that you want to activate the application API Gateway Resource Server?
2
Activate Application
Cancel


1
Dashboard
Users
Groups
Applications
2
ORACLE
Identity Clou
Applications
Search
Select All
Add
Remove
3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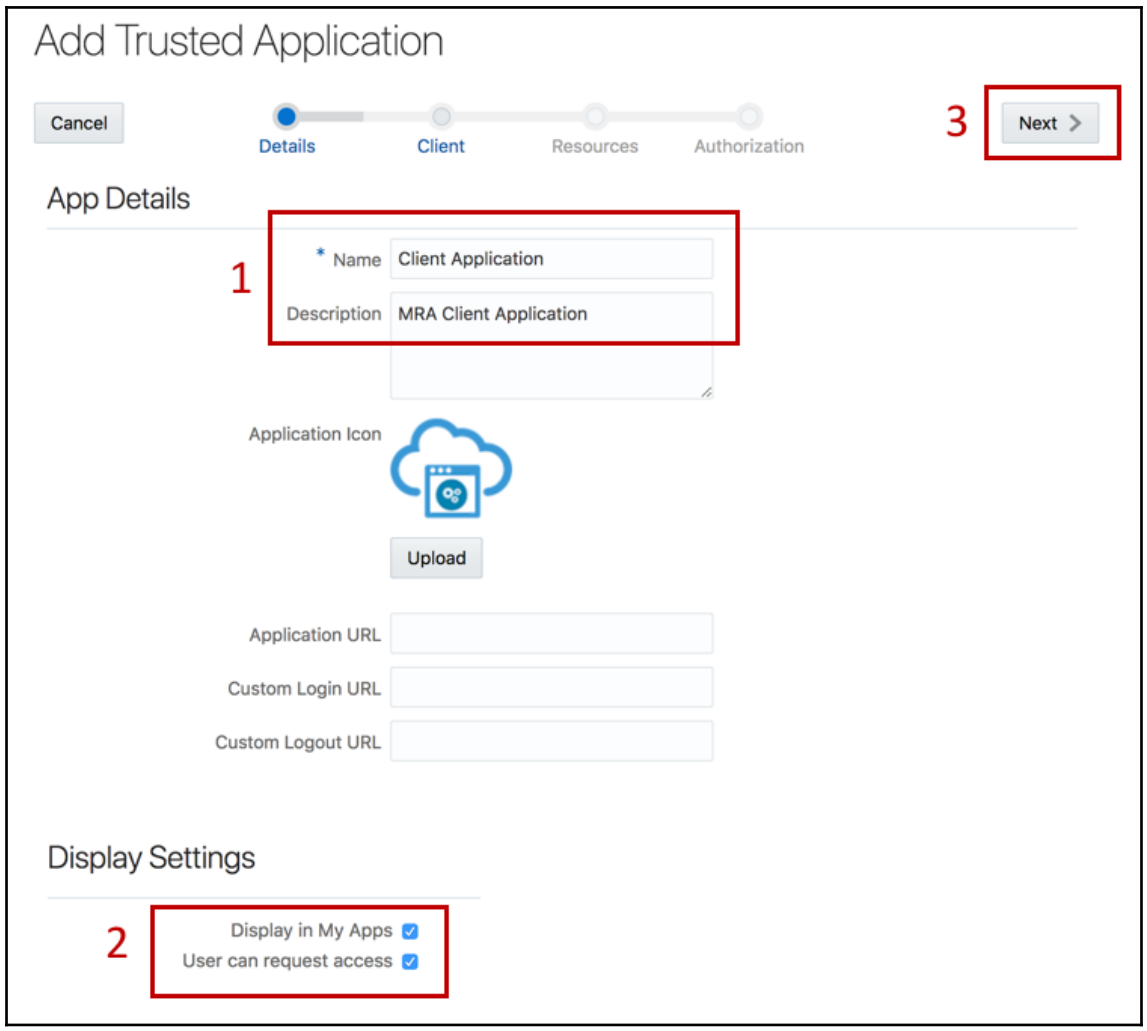
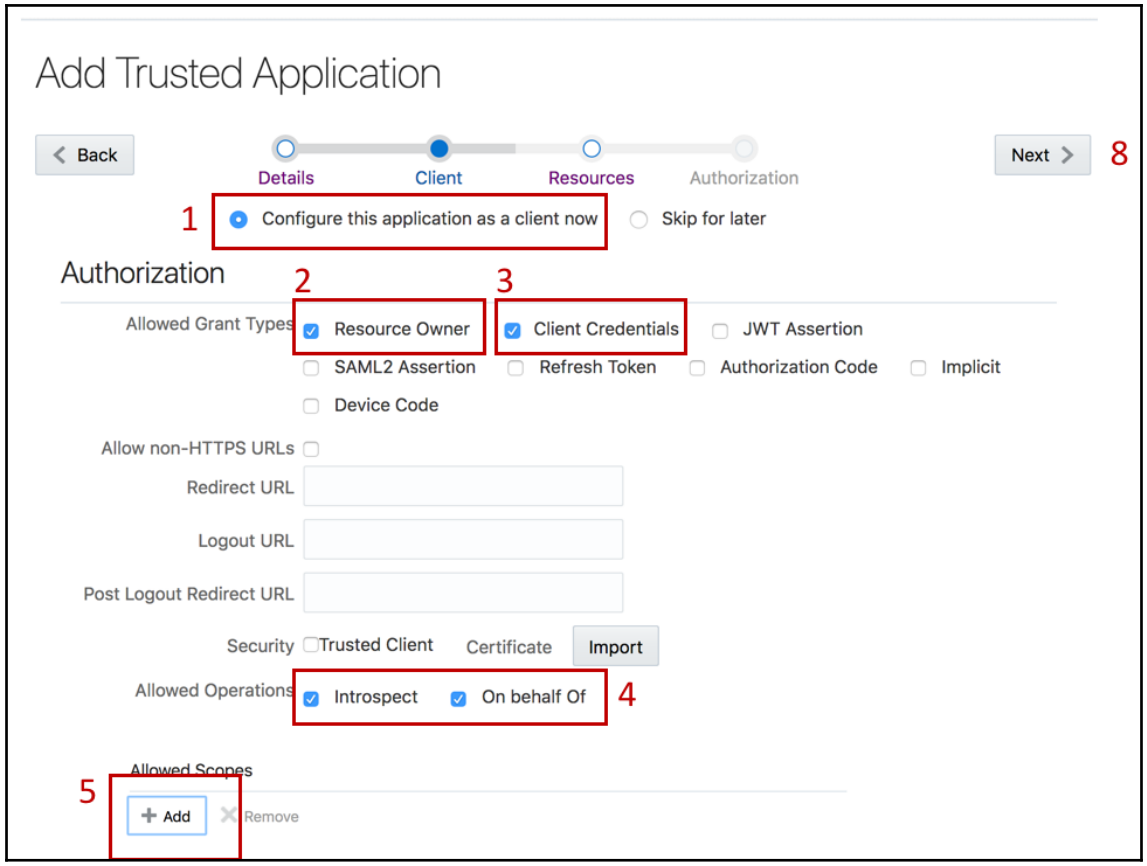
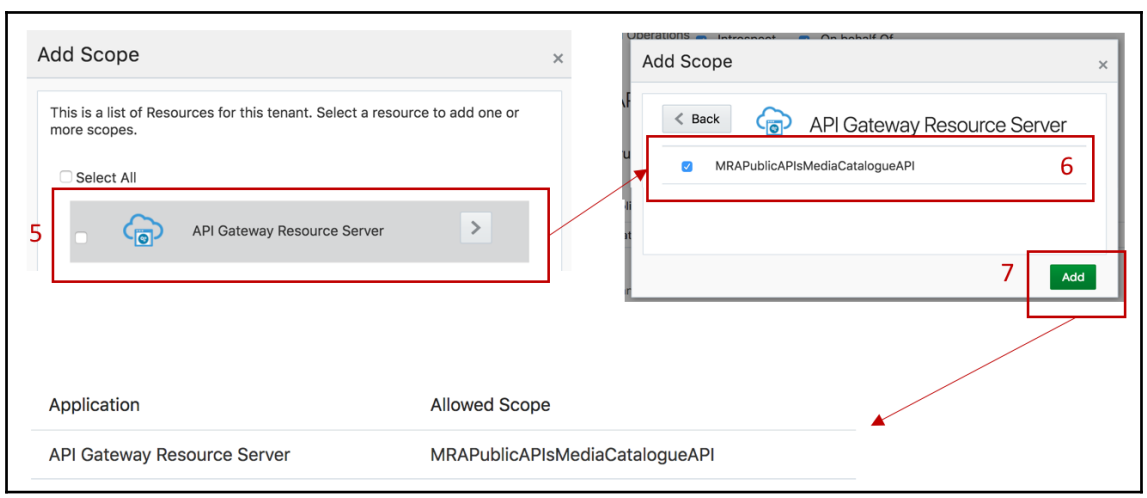
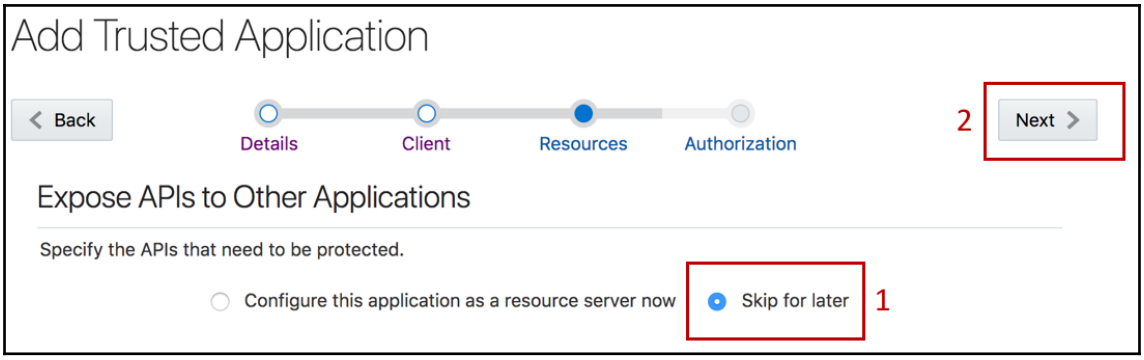
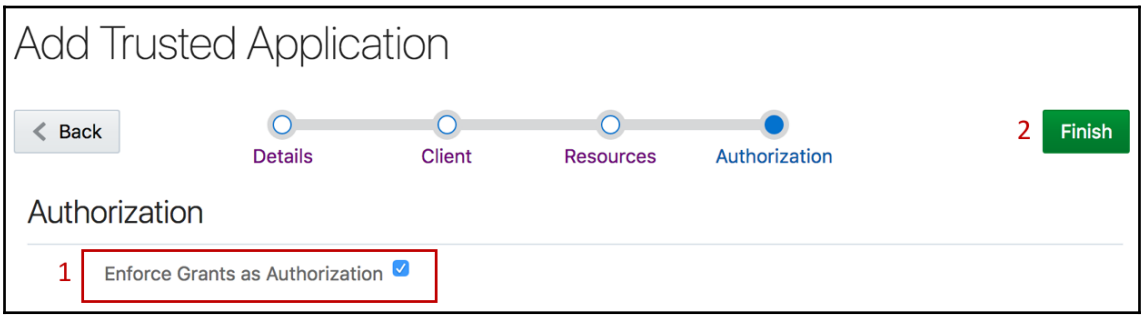
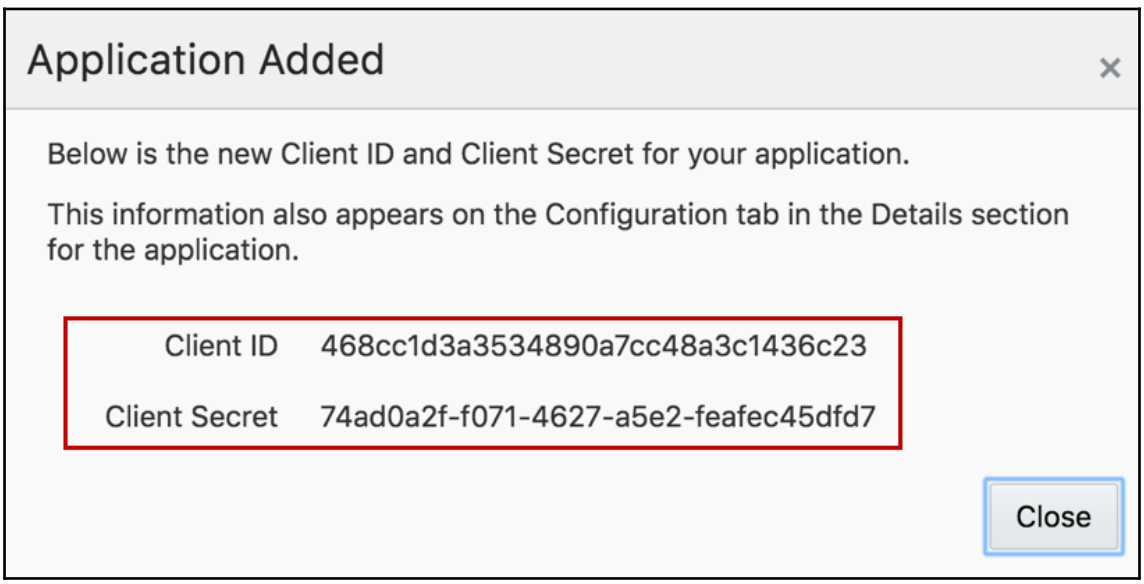

Add Trusted Application
Cancel
Details
Client
Resources
Authorization
3
Next
App Details
1
* Name
Client Application
Description
MRA Client Application
Application Icon
Upload
Application URL
Custom Login URL
Custom Logout URL
Display Settings
2
Display in My Apps
User can request access

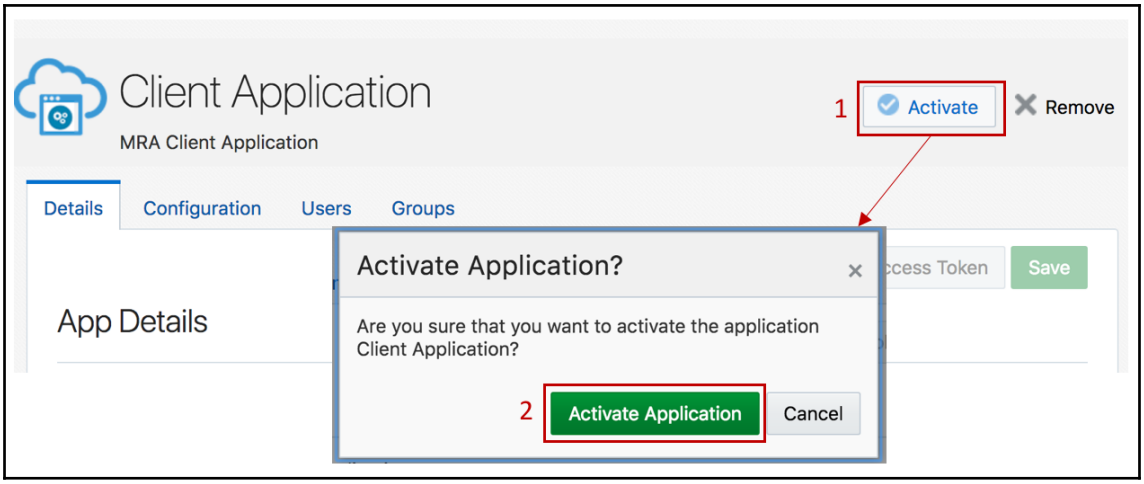

Add Trusted Application
Back
Details
Client
Resources
Authorization
Next
8
1
Configure this application as a client now
Skip for later
Authorization
2
3
Allowed Grant Types
Resource Owner
Client Credentials
JWT Assertion
SAML2 Assertion
Refresh Token
Authorization Code
Implicit
Device Code
Allow non-HTTPS URLs
Redirect URL
Logout URL
Post Logout Redirect URL
Security
Trusted Client
Certificate
Import
Allowed Operations
Introspect
On behalf Of
4
Allowed Scopes
5
Add
Remove

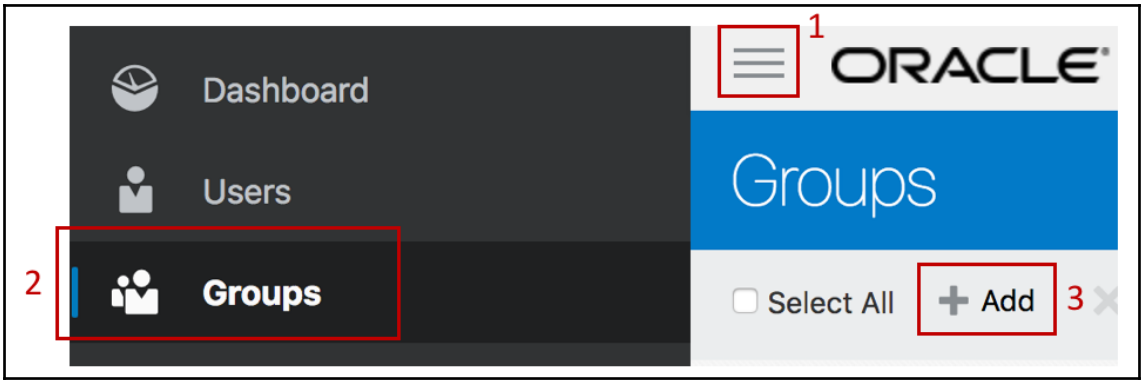

Add Scope
This is a list of Resources for this tenant. Select a resource to add one or more scopes.
Select All
5
API Gateway Resource Server
Add Scope
Back
API Gateway Resource Server
MRAPublicAPIsMediaCatalogueAPI
6
7
Add
Application
Allowed Scope
API Gateway Resource Server
MRAPublicAPIsMediaCatalogueAPI

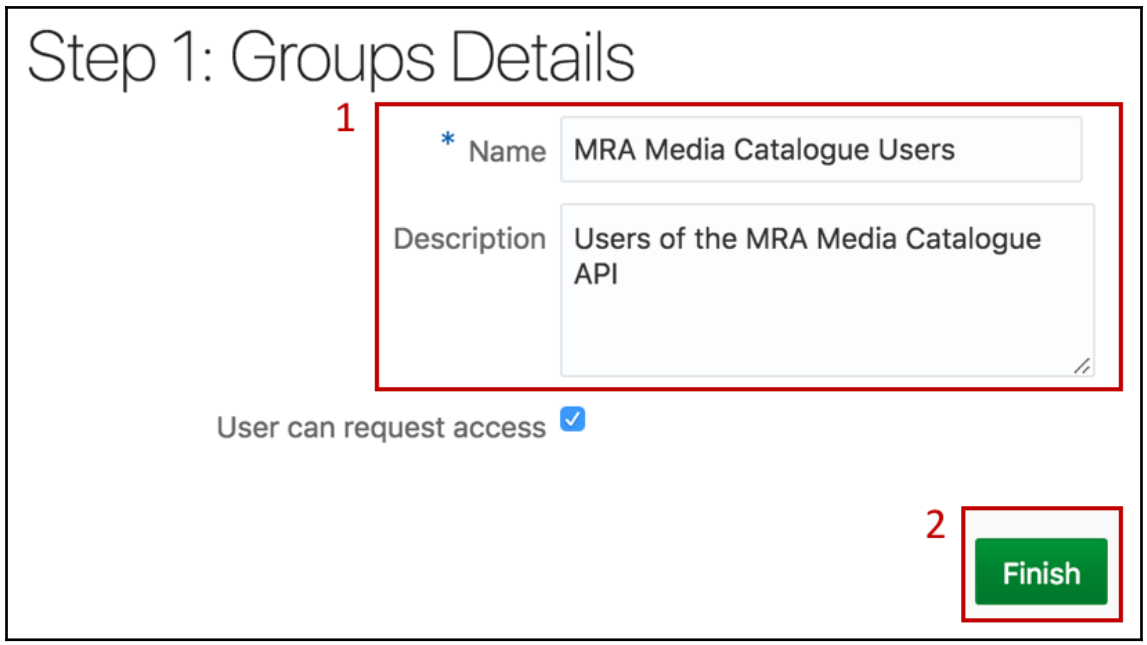

Add Trusted Application
Back
Details
Client
Resources
Authorization
2
Next
Expose APIs to Other Applications
Specify the APIs that need to be protected.
Configure this application as a resource server now
Skip for later
1

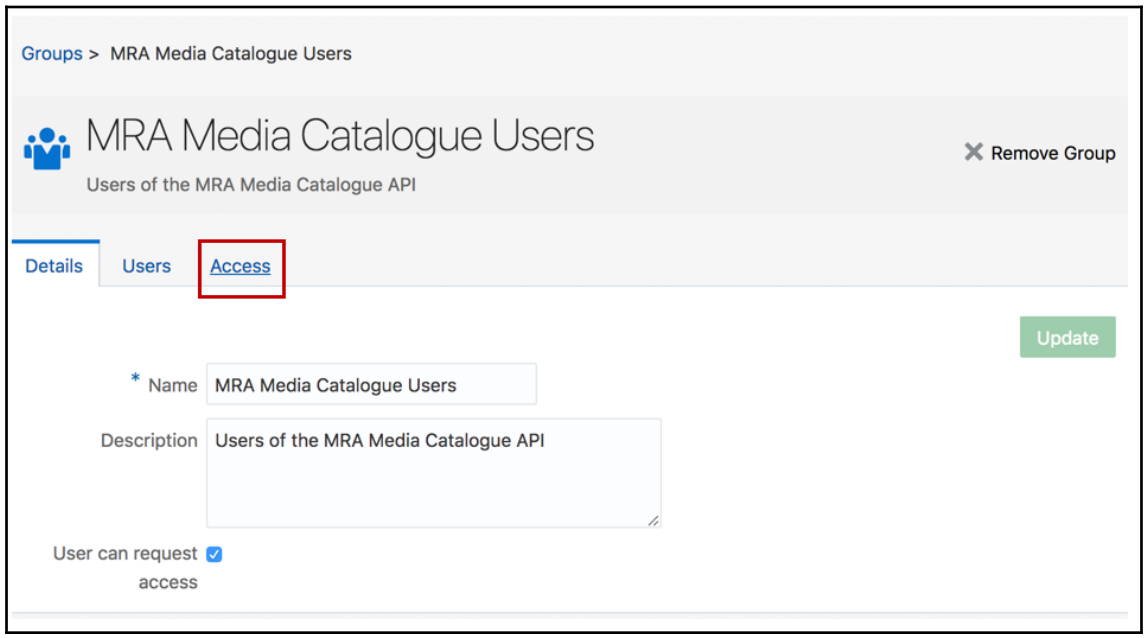

Add Trusted Application
Back
Details
Client
Resources
Authorization
2
Finish
Authorization
1
Enforce Grants as Authorization

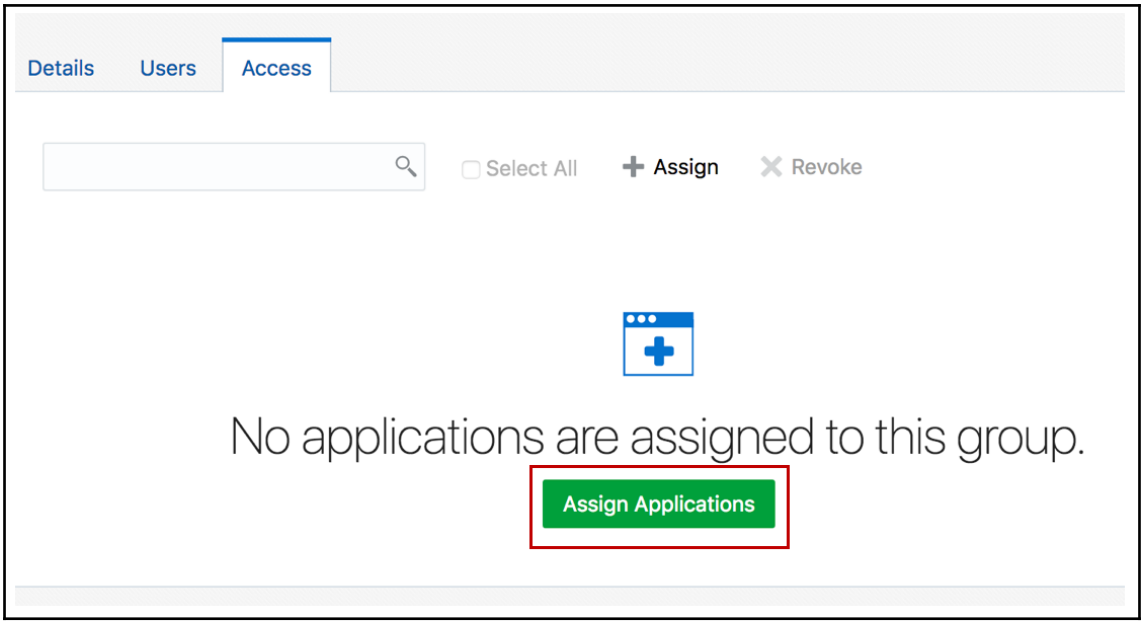

Application Added
Below is the new Client ID and Client Secret for your application.
This information also appears on the Configuration tab in the Details section for the application.
Client ID
468cc1d3a3534890a7cc48a3c1436c23
Client Secret
74ad0a2f-f071-4627-a5e2-feafec45dfd7
Close

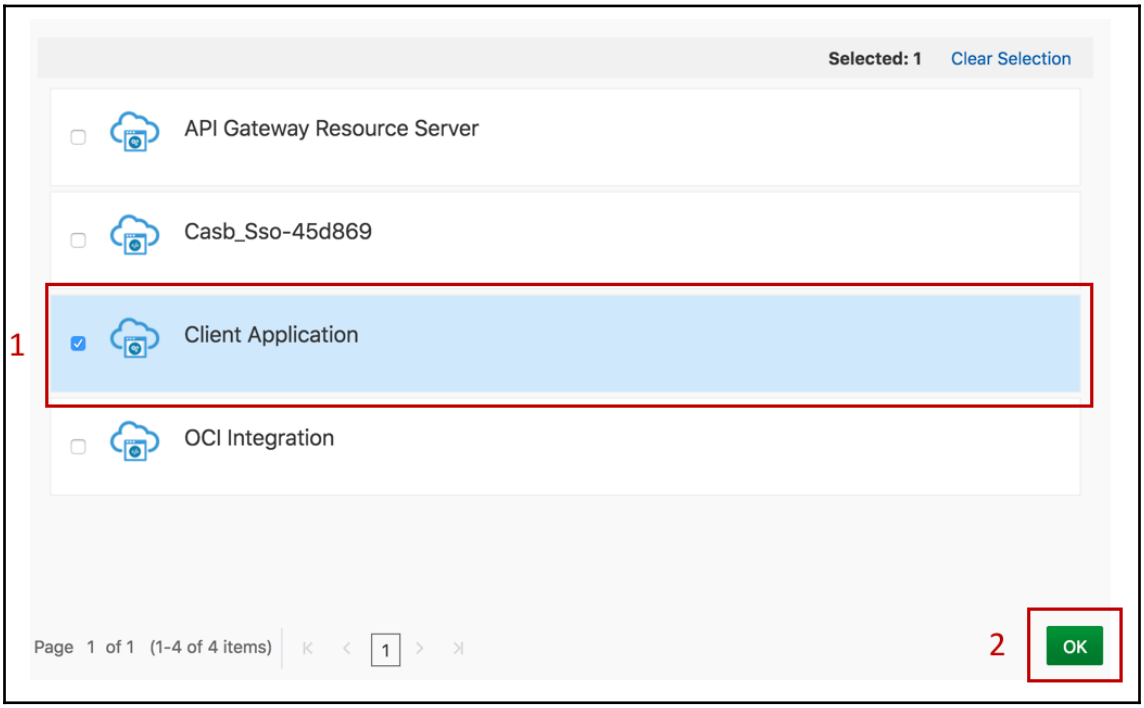

Client Application
MRA Client Application
1
Activate
Remove
Details
Configuration
Users
Groups
App Details
Activate Application?
Are you sure that you want to activate the application Client Application?
2
Activate Application
Cancel
Save

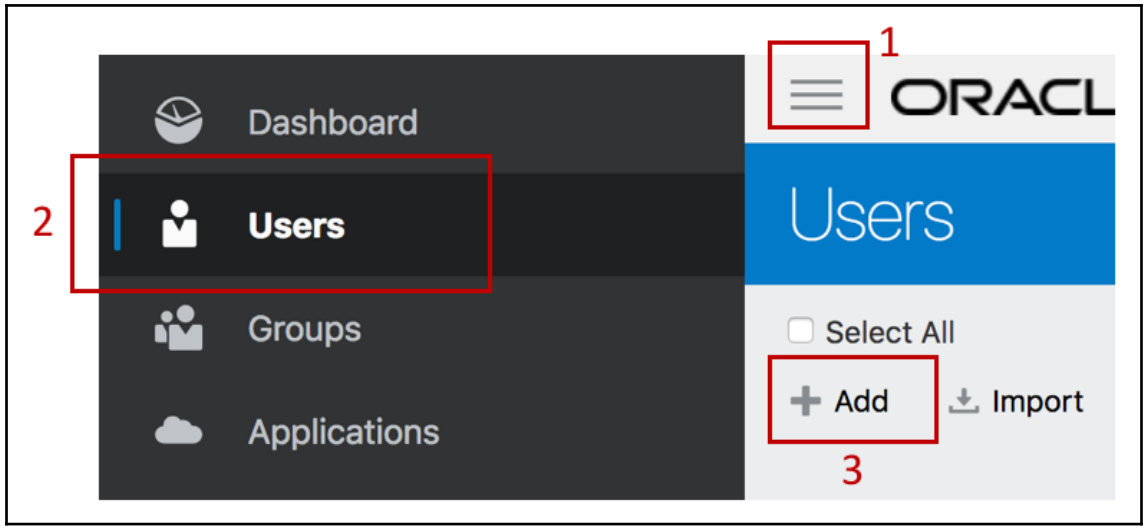

Dashboard
Users
Groups
2
1
ORACLE
Groups
Select All
Add
3

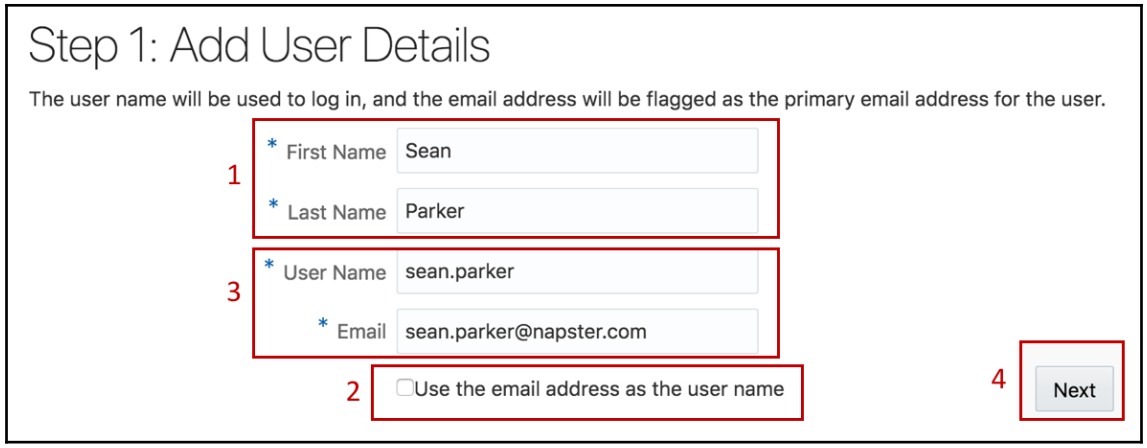

Step 1: Groups Details
1
* Name
MRA Media Catalogue Users
Description
Users of the MRA Media Catalogue API
User can request access
2
Finish

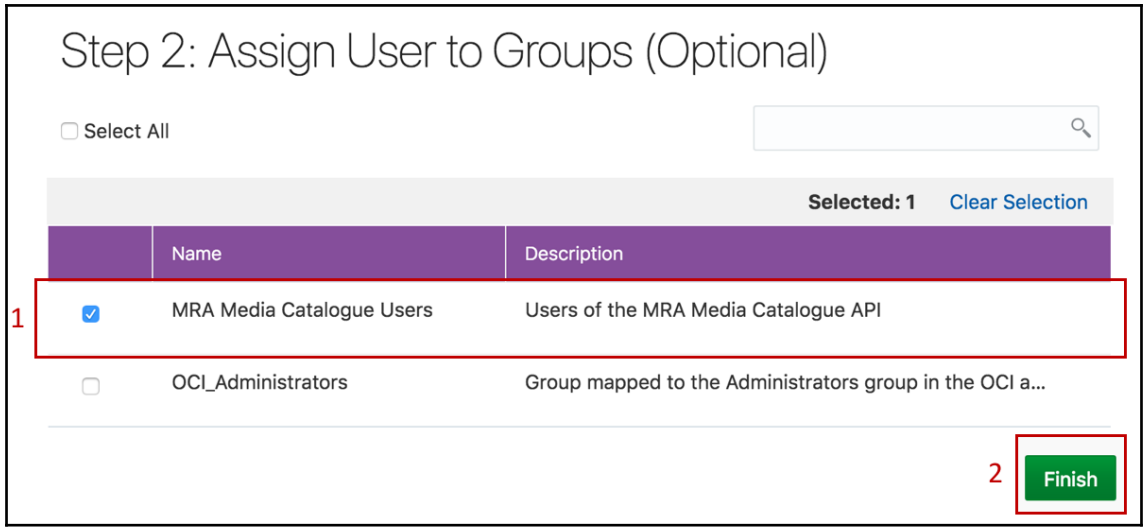

Groups > MRA Media Catalogue Users
MRA Media Catalogue Users
Users of the MRA Media Catalogue API
Remove Group
Details
Users
Access
Update
* Name
MRA Media Catalogue Users
Description
Users of the MRA Media Catalogue API
User can request access

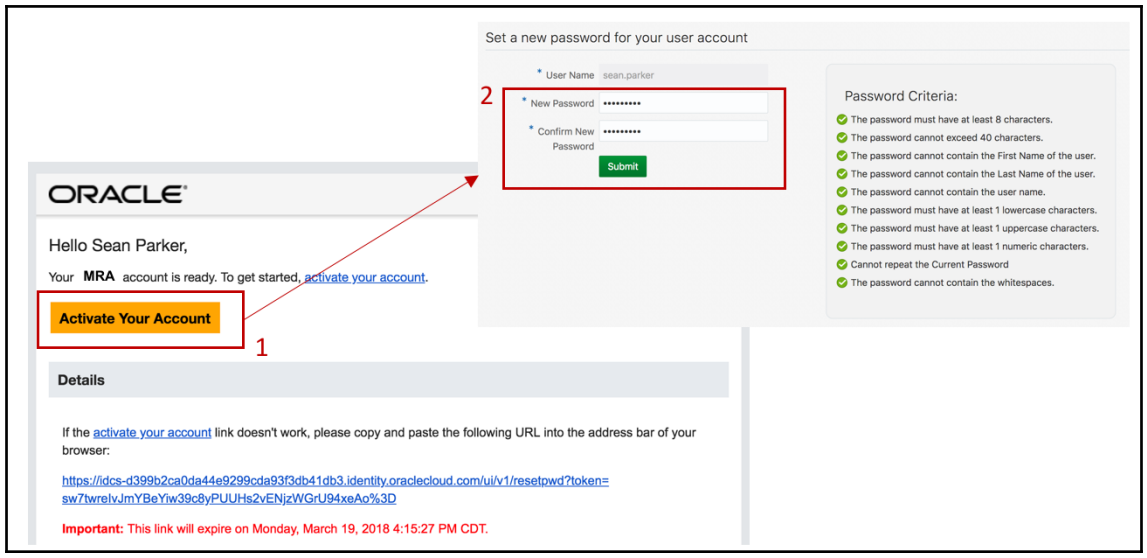

Details
Users
Access
Select All
Assign
Revoke
No applications are assigned to this group.
Assign Applications

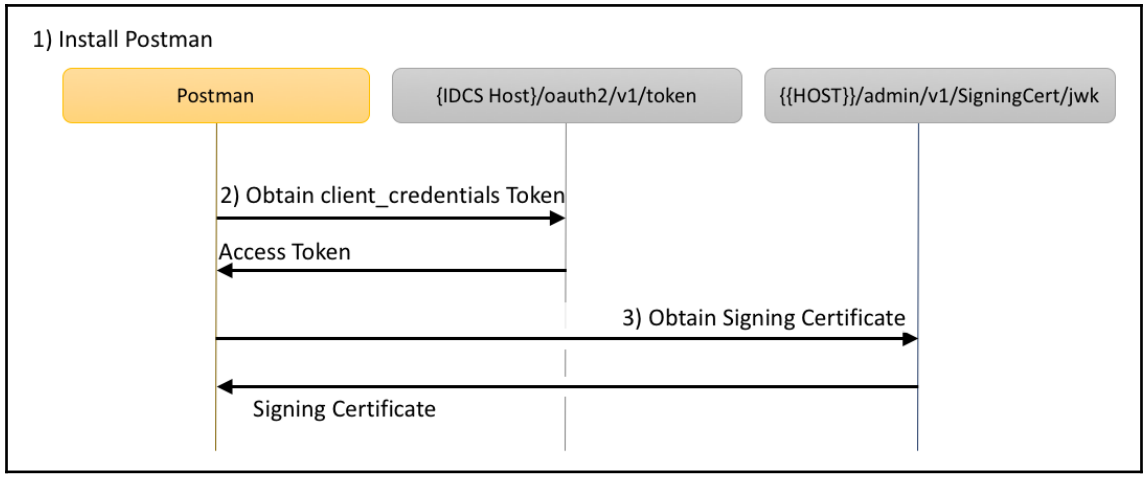

Selected: 1
Clear Selection
API Gateway Resource Server
Casb_Sso-45d869
1
Client Application
OCI Integration
Page 1 of 1 (1-4 of 4 items)
1
2
OK

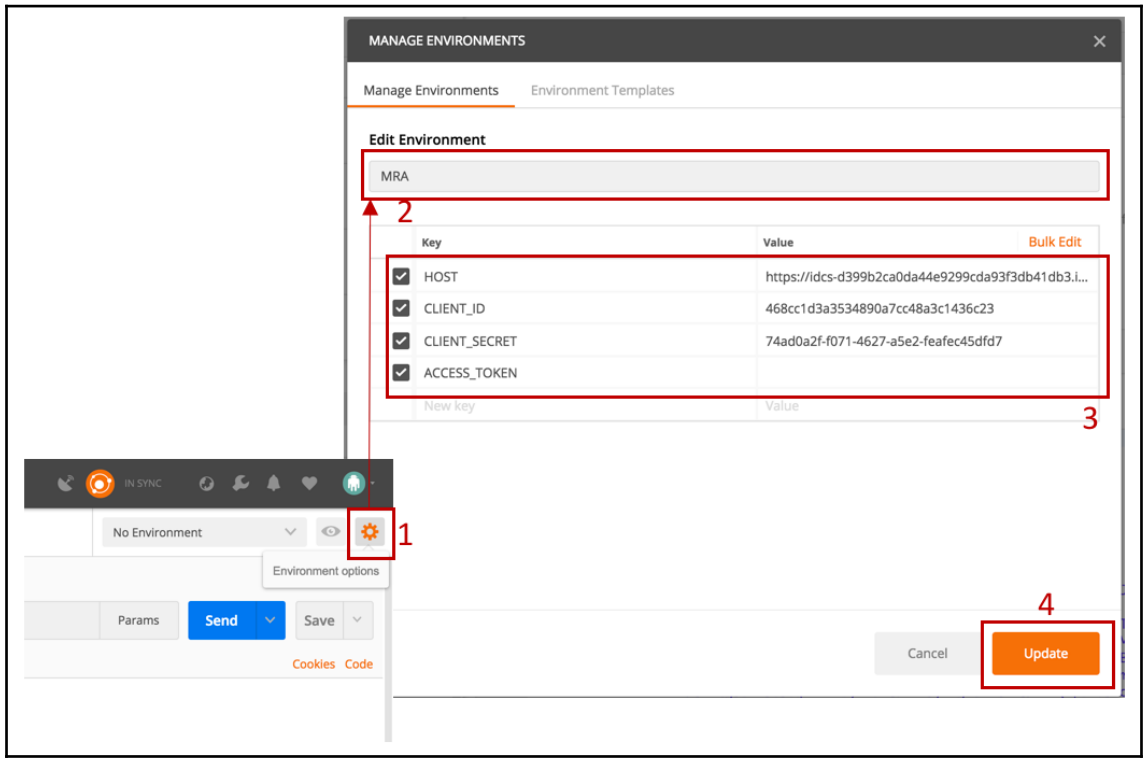

1
Dashboard
2
Users
Groups
Applications
ORACL
Users
Select All
Add
Import
3

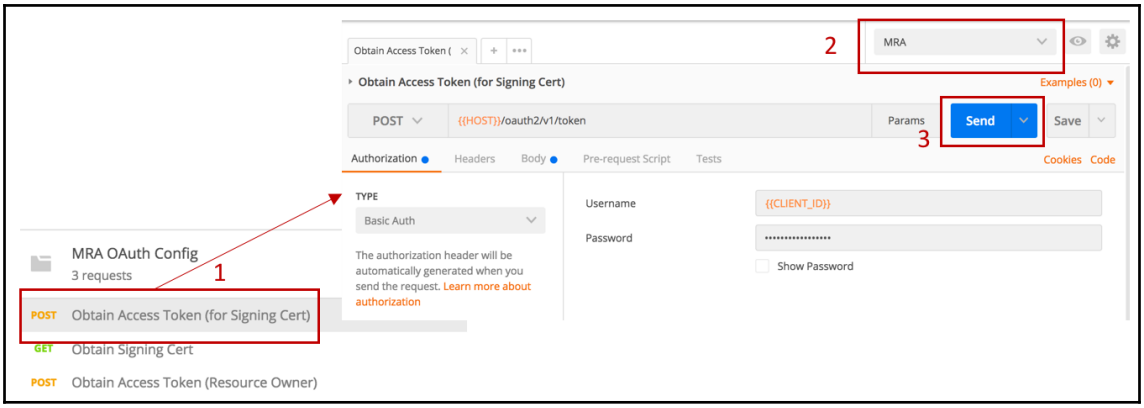

Step 1: Add User Details
The user name will be used to log in, and the email address will be flagged as the primary email address for the user.
1
* First Name
Sean
* Last Name
Parker
3
* User Name
sean.parker
* Email
sean.parker@napster.com
2
Use the email address as the user name
4
Next

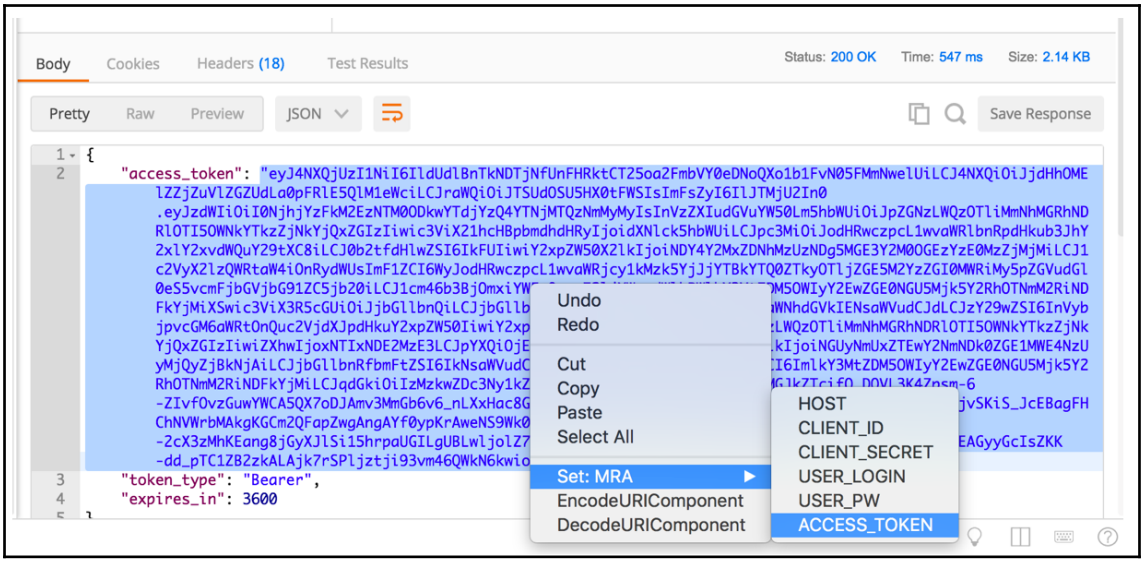

Step 2: Assign User to Groups (Optional)
Select All
Selected: 1
Clear Selection
Name
Description
1
MRA Media Catalogue Users
Users of the MRA Media Catalogue API
OCI_Administrators
Group mapped to the Administrators group in the OCI a...
2
Finish

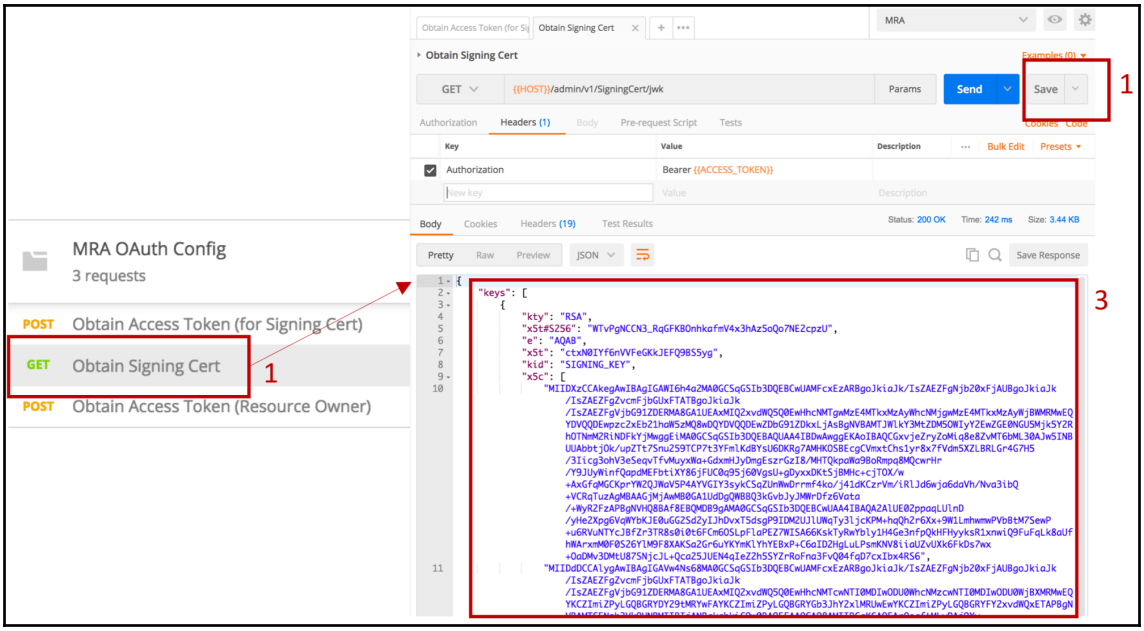

Set a new password for your user account
User Name
sean.parker
2
New Password
Confirm New Password
Submit
Password Criteria:
The password must have at least 8 characters.
The password cannot exceed 40 characters.
The password cannot contain the First Name of the user.
The password cannot contain the Last Name of the user.
The password cannot contain the user name.
The password must have at least 1 lowercase characters.
The password must have at least 1 uppercase characters.
The password must have at least 1 numeric characters.
Cannot repeat the Current Password
The password cannot contain the whitespaces.
ORACLE
Hello Sean Parker,
Your MRA account is ready. To get started, activate your account.
Activate Your Account
1
Details
If the activate your account link doesn't work, please copy and paste the following URL into the address bar of your browser:
https://idcs-d399b2ca0da44e9299cda93f3db41db3.identity.oraclecloud.com/ui/v1/resetpwd?token=sw7twrelvJmYBeYiw39c8yPUUHs2vENjzWGrU94xeAo%3D
Important: This link will expire on Monday, March 19, 2018 4:15:27 PM CDT.


1) Install Postman
Postman
{IDCS Host}/oauth2/v1/token
{{HOST}}/admin/v1/SigningCert/jwk
2) Obtain client_credentials Token
Access Token
3) Obtain Signing Certificate
Signing Certificate

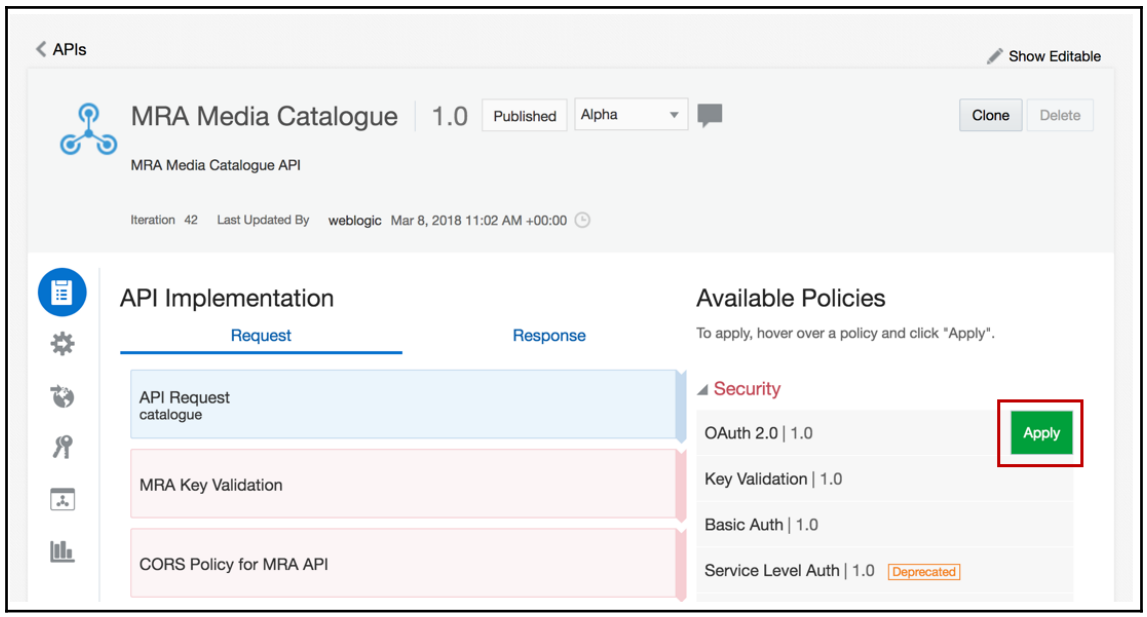

MANAGE ENVIRONMENTS
Manage Environments
Environment Templates
Edit Environment
MRA
2
Key
Value
Bulk Edit
HOST
https://idcs-d399b2ca0da44e9299cda93f3db41db3.i...
CLIENT_ID
468cc1d3a3534890a7cc48a3c1436c23
CLIENT_SECRET
74ad0a2f-f071-4627-a5e2-feafec45dfd7
ACCESS_TOKEN
New key
Value
3
IN SYNC
No Environment
1
Environment options
Params
Send
Save
Cookies
Code
4
Cancel
Update

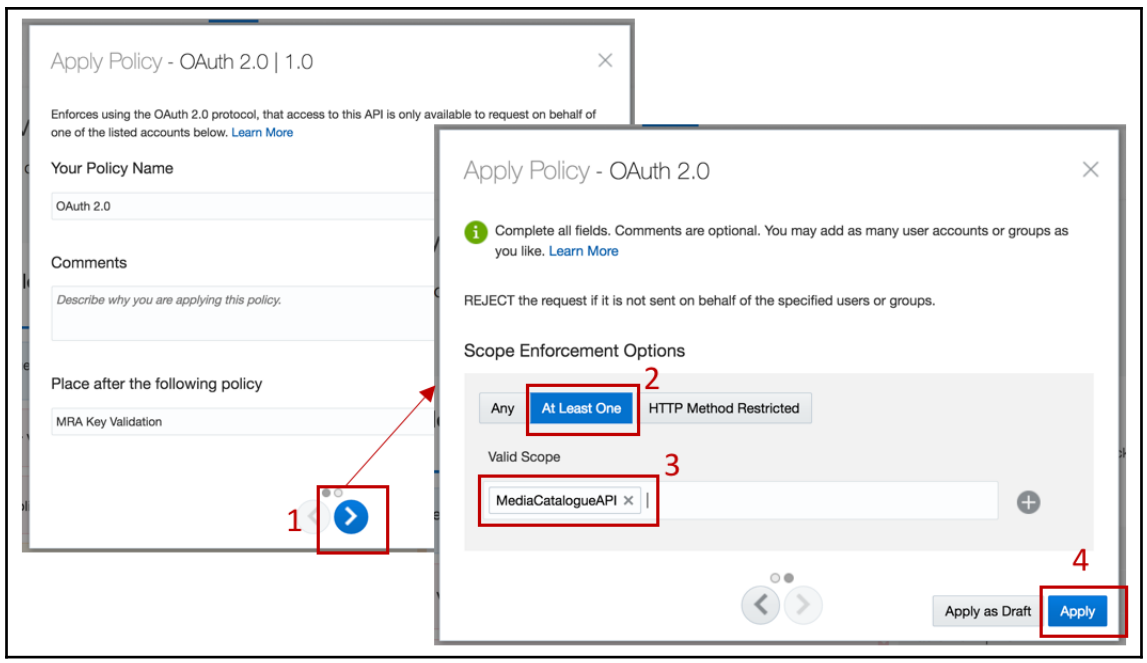

Obtain Access Token (
Obtain Access Token (for Signing Cert)
MRA
Examples (0)
POST
{{HOST}}/oauth2/v1/token
Params
Send
Save
Authorization
Headers
Body
Pre-request Script
Tests
Cookies
Code
TYPE
Basic Auth
The authorization header will be automatically generated when you send the request. Learn more about authorization
Username
{{CLIENT_ID}}
Password
Show Password
MRA OAuth Config
3 requests
POST Obtain Access Token (for Signing Cert)
GET Obtain Signing Cert
POST Obtain Access Token (Resource Owner)
1
2
3

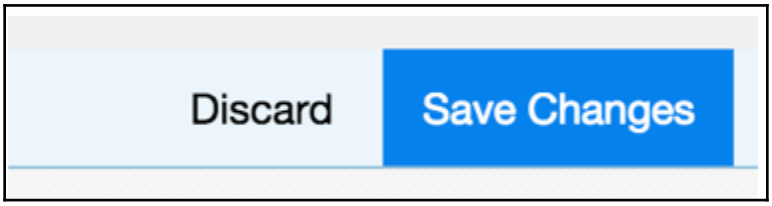

Body
Cookies
Headers (18)
Test Results
Status: 200 OK
Time: 547 ms
Size: 2.14 KB
Pretty
Raw
Preview
JSON
Save Response
{
"access_token": "eyJ4NXQjUzI1NiI6IldUdlBnTkNDTjNfUnFHRktCT25oa2FmbVY0eDNoQXo1b1FvN05FMmNwelUiLCJ4NXQiOiJjdHhOME
lZZjZuVlZGZUdLa0pFRlE5QlM1eWciLCJraWQiOiJTSUdOSU5HX0tFWSIsImFsZyI6IlJTMjU2In0
.eyJzdWIiOiI0NjhjYzFkM2EzNTM0ODkwYTdjYzQ4YTNjMTQzNmMyMyIsInVzZXIudGVuYW50Lm5hbWUiOiJpZGNzLWQzOTliMmNhMGRhND
RlOTI5OWNkYTkzZjNkYjQxZGIzIiwic3ViX21hcHBpbmdhdHRyIjoidXNlck5hbWUiLCJpc3MiOiJodHRwczpcL1wvaWRlbnRpdHkub3JhY
2xlY2xvdWQuY29tXC8iLCJ0b2tfdHlwZSI6IkFUIiwiY2xpZW50X2lkIjoiNDY4Y2MxZDNhMzUzNDg5MGE3Y2M0OGEzYzE0MzZjMjMiLCJ1
c2VyX2lzQWRtaW4iOnRydWUsImF1ZCI6WyJodHRwczpcL1wvaWRjcy1kMzk5YjJjYTBkYTQ0ZTkyOTljZGE5M2YzZGI0MWRiMy5pZGVudGl
0eS5vcmFjbGVjbG91ZC5jb20iLCJ1cm46b3BjOmxiYW
FkYjMiXSwic3ViX3R5cGUiOiJjbGllbnQiLCJjbGllb
jpvcGM6aWRtOnQuc2VjdXJpdHkuY2xpZW50IiwiY2xp
YjQxZGIzIiwiZXhwIjoxNTIxNDE2MzE3LCJpYXQiOjE
yMjQyZjBkNjAiLCJjbGllbnRfbmFtZSI6IkNsaWVudC
RhOTNmM2RiNDFkYjMiLCJqdGkiOiIzMzkwZDc3Ny1kZ
-ZIvfOvzGuwYWCA5QX7oDJAmv3MmGb6v6_nLXxHac8G
ChNVWrbMAkgKGCm2QFapZwgAngAYf0ypKrAweNS9Wk0
-2cX3zMhKEang8jGyXJlSi15hrpaUGILgUBLwljolZ7
-dd_pTC1ZB2zkALAjk7rSPljztji93vm46QWkN6kwio
"token_type": "Bearer",
"expires_in": 3600
Undo
Redo
Cut
Copy
Paste
Select All
Set: MRA
EncodeURIComponent
DecodeURIComponent
HOST
CLIENT_ID
CLIENT_SECRET
USER_LOGIN
USER_PW
ACCESS_TOKEN

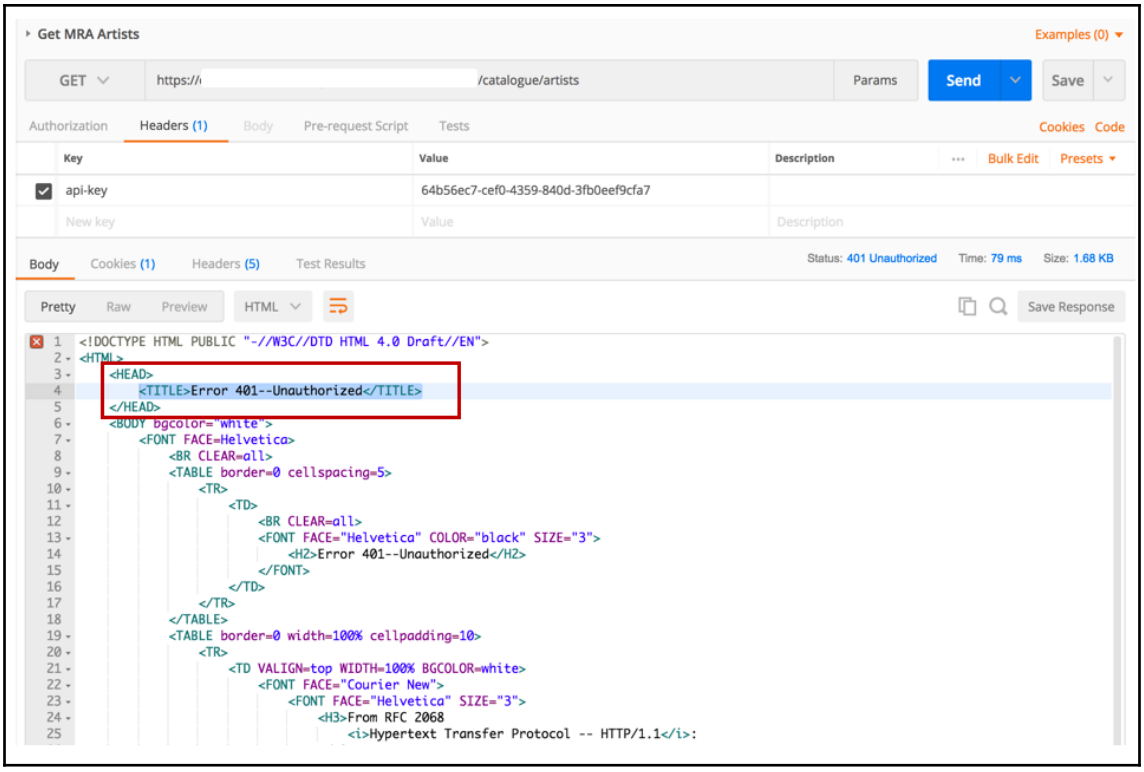


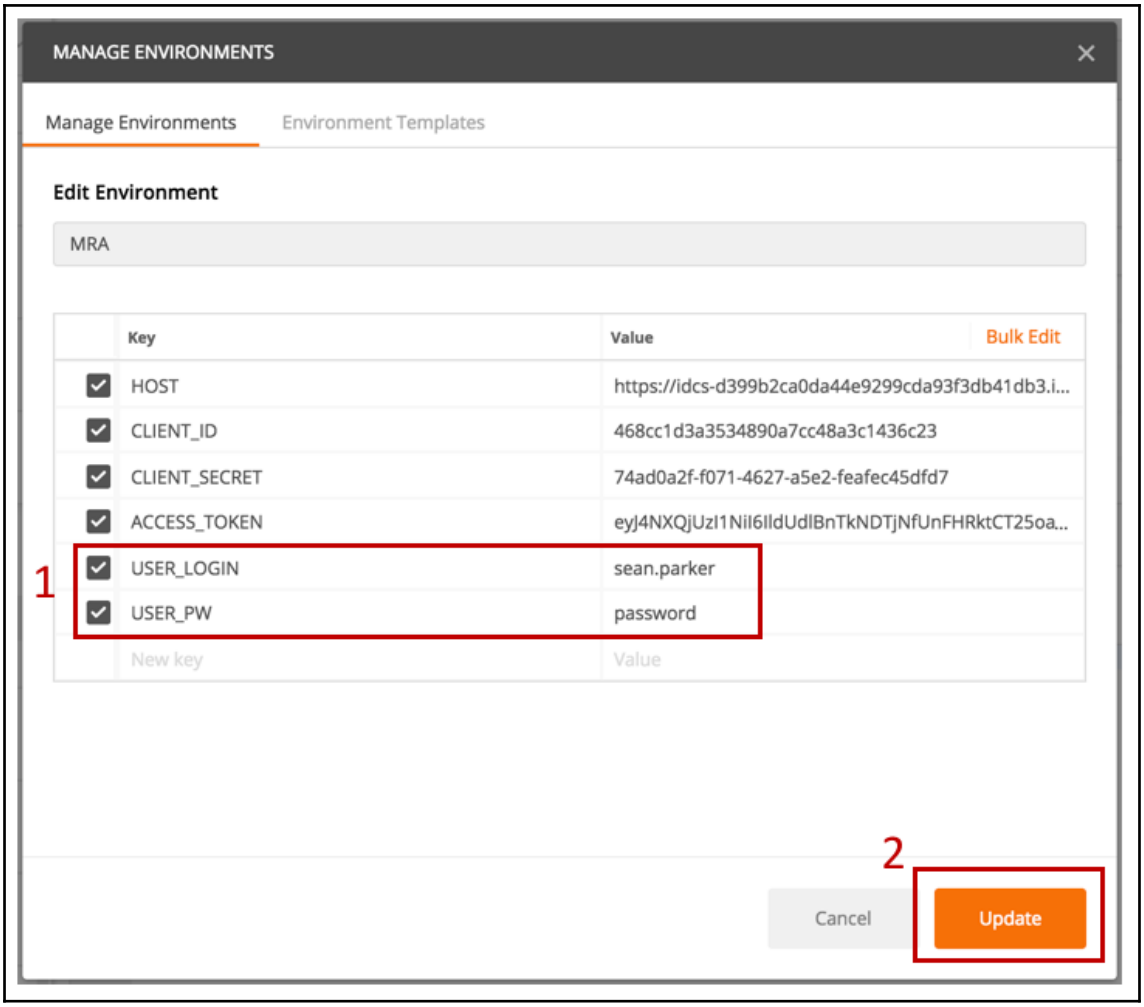

```
[opc@apigw apigatewayinstaller17331]$ ./APIGateway -f gateway-props.json -a updateoauthprofile
Please enter user name for weblogic domain,representing the gateway node:
weblogic
Password:
2018-03-19 00:37:53,493 INFO Initiating validation checks.
2018-03-19 00:37:53,494 INFO validation complete
2018-03-19 00:37:53,494 INFO Install action logs are located in /home/opc/apigateway/logs
2018-03-19 00:37:53,495 INFO Logging to file /home/opc/apigateway/logs/main.log
2018-03-19 00:37:53,495 INFO Outcomes of operations will be accumulated in /home/opc/apigateway/logs/status.log
Please enter gateway manager user:
demo-gateway-admin
Password:
2018-03-19 00:38:43,164 INFO Performing update oauth profile step.
2018-03-19 00:38:44,617 INFO Update oauth profile step complete. Status = UPDATE_EXECUTED .Please refer log file for
 details.
2018-03-19 00:38:44,617 INFO Execution_complete.
```

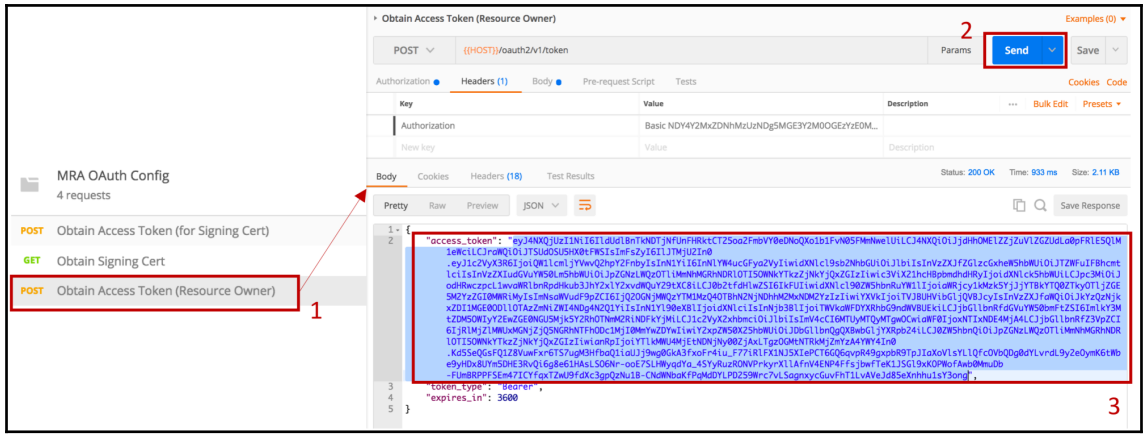

APIs
Show Editable
MRA Media Catalogue
1.0
Published
Alpha
Clone
Delete
MRA Media Catalogue API
Iteration 42
Last Updated By weblogic Mar 8, 2018 11:02 AM +00:00
API Implementation
Request
Response
API Request
catalogue
MRA Key Validation
CORS Policy for MRA API
Available Policies
To apply, hover over a policy and click "Apply".
Security
OAuth 2.0 | 1.0
Apply
Key Validation | 1.0
Basic Auth | 1.0
Service Level Auth | 1.0
Deprecated

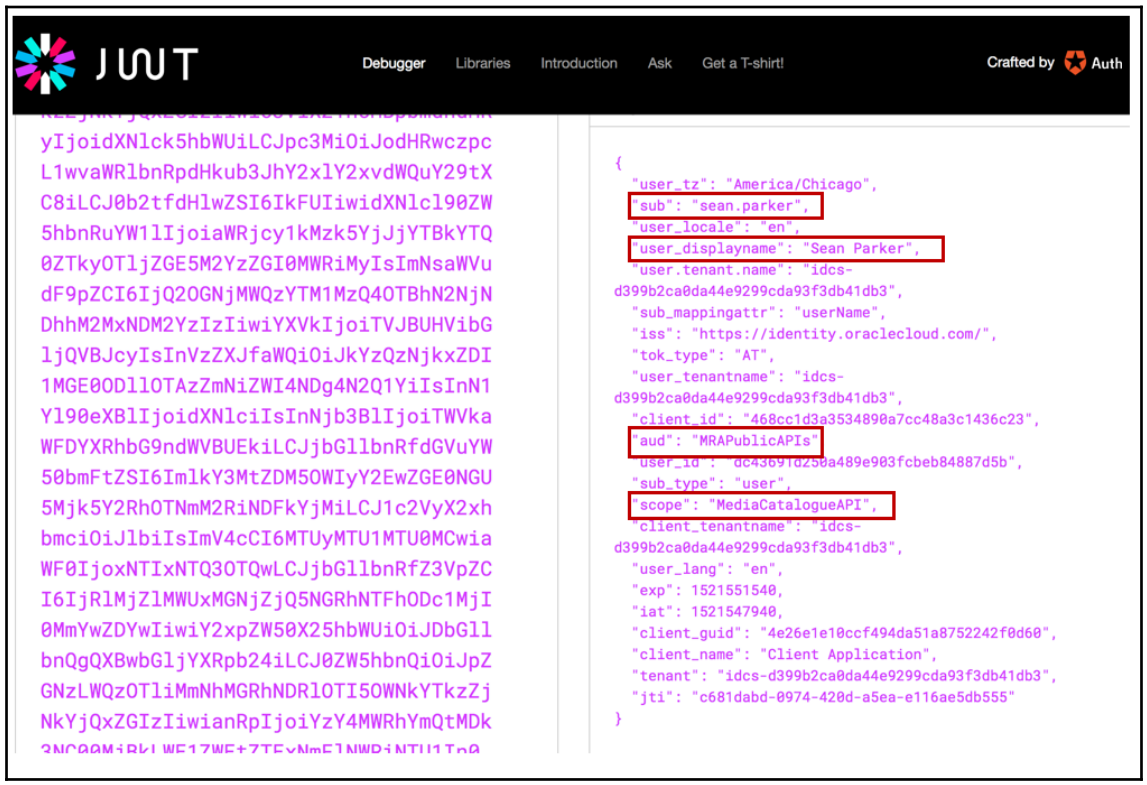

Apply Policy - OAuth 2.0 | 1.0
Enforces using the OAuth 2.0 protocol, that access to this API is only available to request on behalf of one of the listed accounts below. Learn More
Your Policy Name
OAuth 2.0
Comments
Describe why you are applying this policy.
Place after the following policy
MRA Key Validation
1
Apply Policy - OAuth 2.0
Complete all fields. Comments are optional. You may add as many user accounts or groups as you like. Learn More
REJECT the request if it is not sent on behalf of the specified users or groups.
Scope Enforcement Options
2
Any
At Least One
HTTP Method Restricted
Valid Scope
3
MediaCatalogueAPI
4
Apply as Draft
Apply

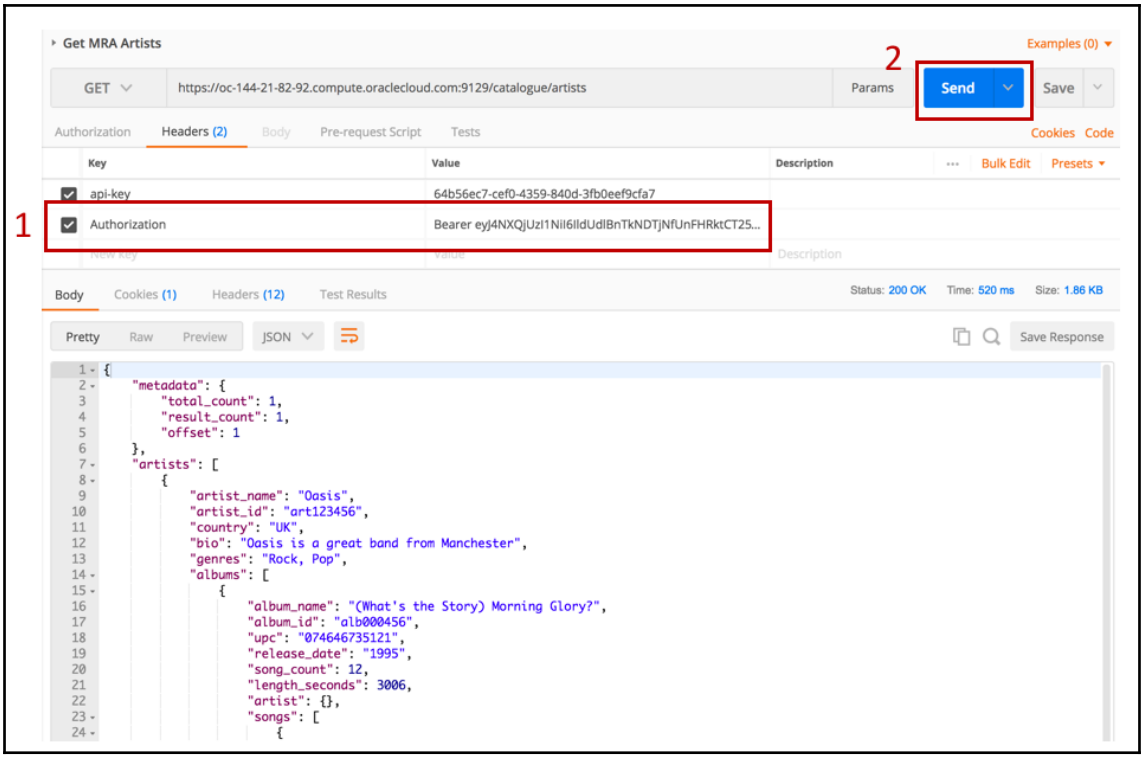

Discard
Save Changes


Get MRA Artists
Examples (0)
GET
https://
/catalogue/artists
Params
Send
Save
Authorization
Headers (1)
Body
Pre-request Script
Tests
Cookies
Code
Key
Value
Description
Bulk Edit
Presets
api-key
64b56ec7-cef0-4359-840d-3fb0eef9cfa7
New key
Value
Description
Body
Cookies (1)
Headers (5)
Test Results
Status: 401 Unauthorized
Time: 79 ms
Size: 1.68 KB
Pretty
Raw
Preview
HTML
Save Response
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Draft//EN">
<HTML>
<HEAD>
<TITLE>Error 401--Unauthorized</TITLE>
</HEAD>
<BODY bgcolor="white">
<FONT FACE=Helvetica>
<BR CLEAR=all>
<TABLE border=0 cellspacing=5>
<TR>
<TD>
<BR CLEAR=all>
<FONT FACE="Helvetica" COLOR="black" SIZE="3">
<H2>Error 401--Unauthorized</H2>
</FONT>
</TD>
</TR>
</TABLE>
<TABLE border=0 width=100% cellpadding=10>
<TR>
<TD VALIGN=top WIDTH=100% BGCOLOR=white>
<FONT FACE="Courier New">
<FONT FACE="Helvetica" SIZE="3">
<H3>From RFC 2068
Hypertext Transfer Protocol -- HTTP/1.1:

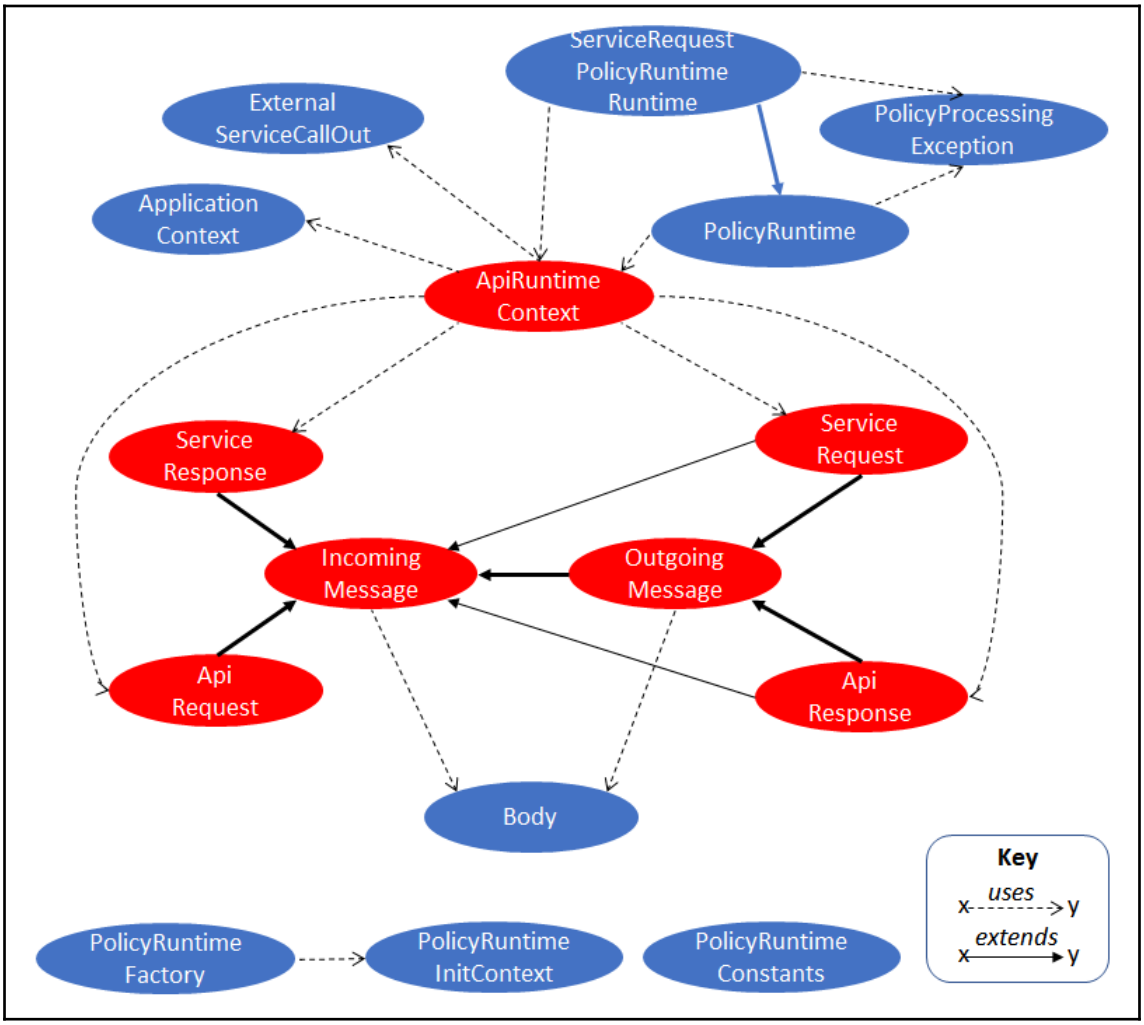

MANAGE ENVIRONMENTS
Manage Environments
Environment Templates
Edit Environment
MRA
Key
Value
Bulk Edit
HOST
https://idcs-d399b2ca0da44e9299cda93f3db41db3.i...
CLIENT_ID
468cc1d3a3534890a7cc48a3c1436c23
CLIENT_SECRET
74ad0a2f-f071-4627-a5e2-feafec45dfd7
ACCESS_TOKEN
eyJ4NXQjUzI1NiI6IldUdlBnTkNDTjNfUnFHRktCT25oa...
1
USER_LOGIN
sean.parker
USER_PW
password
New key
Value
2
Cancel
Update

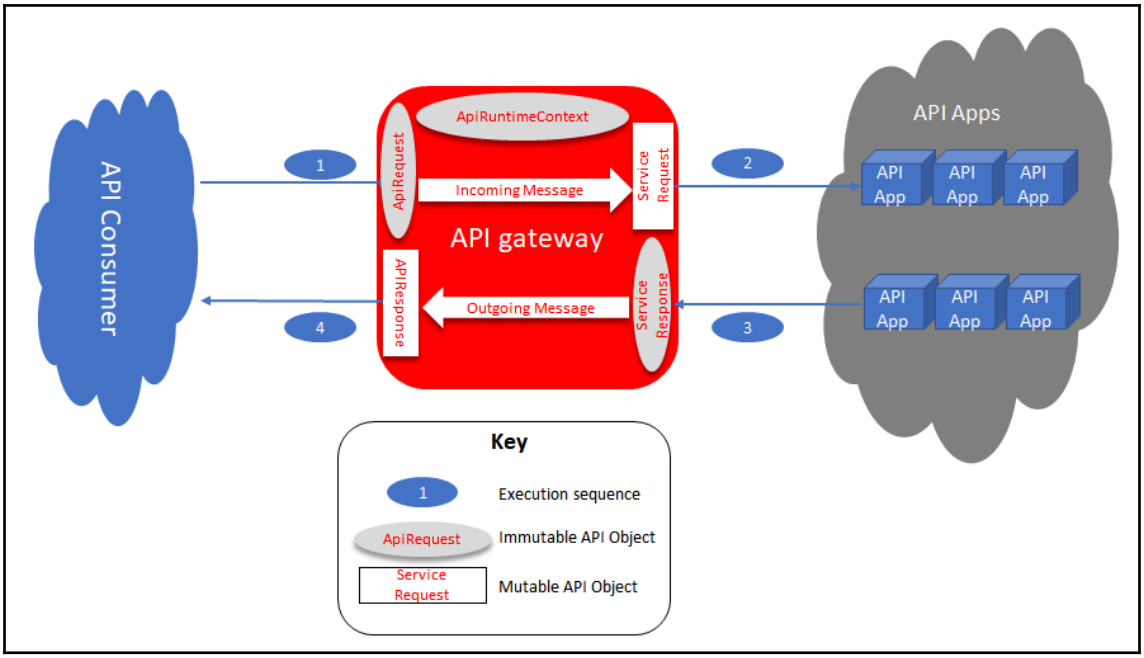

MRA OAuth Config
4 requests
POST Obtain Access Token (for Signing Cert)
GET Obtain Signing Cert
POST Obtain Access Token (Resource Owner)
1
Obtain Access Token (Resource Owner)
POST
{{HOST}}/oauth2/v1/token
Params
Send
Save
2
Authorization
Headers (1)
Body
Pre-request Script
Tests
Cookies
Code
Key
Value
Description
Bulk Edit
Presets
Authorization
Basic NDY4Y2MxZDNhMzUzNDg5MGE3Y2M0OGEzYzE0M...
New key
Value
Description
Body
Cookies
Headers (18)
Test Results
Status: 200 OK
Time: 933 ms
Size: 2.11 KB
Pretty
Raw
Preview
JSON
Save Response
"access_token": "eyJ4NXQjUzI1NiI6IldUdlBnTkNDTjNfUnFHRktCT25oa2FmbVY0eDNoQXo1b1FvN05FMmNwelUiLCJ4NXQiOiJjdHhOMElZZjZuVlZGZUdLaQpFRlE5QlM
1eWciLCJraWQiOiJTSUdOSU5HX0tFWSIsImFsZyI6IlJTMjU2In0
.eyJ1c2VyX3R6IjoiQW1lcmljYVwvQ2hpY2FnbyIsInN1YiI6InNlYW4ucGFya2VyIiwidXNlcl9sb2NhbGUiOiJlbiIsInVzZXJfZGlzcGxheWFtZSI6IlNlYW4gUGFya2VyIiwidGVuYW50LmN5hbWUiOiJpZGNzLWQzOTliMmNhMGRhNDRlOTI5OWNkYTkzZjNkYjQxZDMiLCJpc3MiOiJodHRwczpcL1wvaWRlbnRpdHkub3JhY2xlY2xvdWQuY29tXC8iLCJ0b2tfdHlwZSI6IkFUIiwidXNlcl90ZW5hbnRuYW1lIjoiaWRjcy1kMzk5YjJjYTBkYTQ0ZTkyOTljZGE
5M2YzZGI0MWRiMyIsImNsaWVudF9pZCI6IjQ2OGNjMWQzYTM1MzQ4OTBhN2NjNDhhM2MxNDM2YzIzIiwiYXVkIjoiTVJBUHVibGljQVBJcyIsInVzZXJfaWQiOiJkYzQzNjkxZDI
1MGE0ODllOTAzZmNiZWI4NDg4N2Q1YiIsInN1Yl90eXBlIjoiTWVkaWFDYXRhbG9ndWVBUEkiLCJjbGllbnRfdGVuYW50bmFtZSI6ImlkY3MtZDM5OWIyY2EwZGE0NGU5Mjk5Y2RhOTNmM2RiNDFkYjMiLCJ1c2VyX2xhbmciOiJlbiIsImV4cCI6MTUyMTQyMTgwOCwiaWF0IjoxNTIxNDE4MjA4LCJjbGllbnRfZ3VpZCI
6IjRlMjZlMWUxMGNjZjQ5NGRhNTFhODc1MjI0MmYwZDYwIiwiY2xpZW50X2lkIjoiSDBsbGljYXRpb24iLCJ0ZW5hbnQiOiJpZGNzLWQzOTliMmNhMGRhNDRlOTI5OWNkYTkzZjNkYjQxZDMiLCJpc3MiOiJodHRwczpcL1wvaWRlbnRpdHkub3JhY2xlY2xvdWQuY29tXC8iLCJ0b2tfdHlwZSI6IkFUIiwidXNlcl90ZW5hbnRuYW1lIjoiaWRjcy1kMzk5YjJjYTBkYTQ0ZTkyOTljZGE
.Kd5SeQGsFQ1Z8VuwFxr6T57ugM3HfbaQ1idUJj9wg0GkA3fxoFr4iu_F77iRlFX1NJ5XIePCT6GQ6qvpR49gxpbR9TpJIaXoVlsYLlQfcOVbQDg0dYLvrdL9y2eOymK6tWb
e9yHDx8UYm5DHE3RvQi6g8e61HAsLSO6Nr-ooE7SLHWyqdYa_4SYyRuzRONVPrkyrXllAfnV4ENP4FfsjbwfTeK1JSGl9xKOPWofAwb0MmuDb
-FUm8RPPFSEm47ICYfqxTZW9fdXc3gpQzNu18-CNdWNbaKfPqMdDYLPDZS9Mrc7vLSagnxycGuvFhTiLvAVeJd85eXnhhu1sY3ong",
"token_type": "Bearer",
"expires_in": 3600
3


JWT
Debugger
Libraries
Introduction
Ask
Get a T-shirt!
Crafted by Auth
yIjoidXNlck5hbWUiLCJpc3MiOiJodHRwczpc
L1wvaWRlbnRpdHkub3JhY2xlY2xvdWQuY29tX
C8iLCJ0b2tfdHlwZSI6IkFUIiwidXNlcl90ZW
5hbnRuYW1lIjoiaWRjcy1kMzk5YjJjYTBkYTQ
0ZTkyOTljZGE5M2YzZGI0MWRiMyIsImNsaWVu
dF9pZCI6IjQ2OGNjMWQzYTM1MzQ4OTBhN2NjN
DhhM2MxNDM2YzIzIiwiYXVkIjoiTVJBUHVibG
ljQVBJcyIsInVzZXJfaWQiOiJkYzQzNjkxZDI
1MGE0ODllOTAzZmNiZWI4NDg4N2Q1YiIsInN1
Yl90eXBlIjoiTWVka
WFDYXRhbG9ndWVBUEkiLCJjbGllbnRfdGVuYW
50bmFtZSI6ImlkY3MtZDM5OWIyY2EwZGE0NGU
5Mjk5Y2RhOTNmM2RiNDFkYjMiLCJ1c2VyX2xh
bmciOiJlbiIsImV4cCI6MTUyMTU1MTU0MCwia
WF0IjoxNTIxNTQ3OTQwLCJjbGllbnRfZ3VpZC
I6IjRlMjZlMWUxMGNjZjQ5NGRhNTFhODc1MjI
0MmYwZDYwIiwiY2xpZW50X25hbWUiOiJDbGll
bnQgQXBwbGljYXRpb24iLCJ0ZW5hbnQiOiJpZ
GNzLWQzOTliMmNhMGRhNDRlOTI5OWNkYTkzZj
NkYjQxZGIzIiwianRpIjoiYzY4MWRhYmQtMDk
{
"user_tz": "America/Chicago",
"sub": "sean.parker",
"user_locale": "en",
"user_displayname": "Sean Parker",
"user.tenant.name": "idcs-
d399b2ca0da44e9299cda93f3db41db3",
"sub_mappingattr": "userName",
"iss": "https://identity.oraclecloud.com/",
"tok_type": "AT",
"user_tenantname": "idcs-
d399b2ca0da44e9299cda93f3db41db3",
"client_id": "468cc1d3a3534890a7cc48a3c1436c23",
"aud": "MRAPublicAPIs"
"user_id": "dc43691d250a489e903fcbeb84887d5b",
"sub_type": "user",
"scope": "MediaCatalogueAPI",
"client_tenantname": "idcs-
d399b2ca0da44e9299cda93f3db41db3",
"user_lang": "en",
"exp": 1521551540,
"iat": 1521547940,
"client_guid": "4e26e1e10ccf494da51a8752242f0d60",
"client_name": "Client Application",
"tenant": "idcs-d399b2ca0da44e9299cda93f3db41db3",
"jti": "c681dabd-0974-420d-a5ea-e116ae5db555"
}

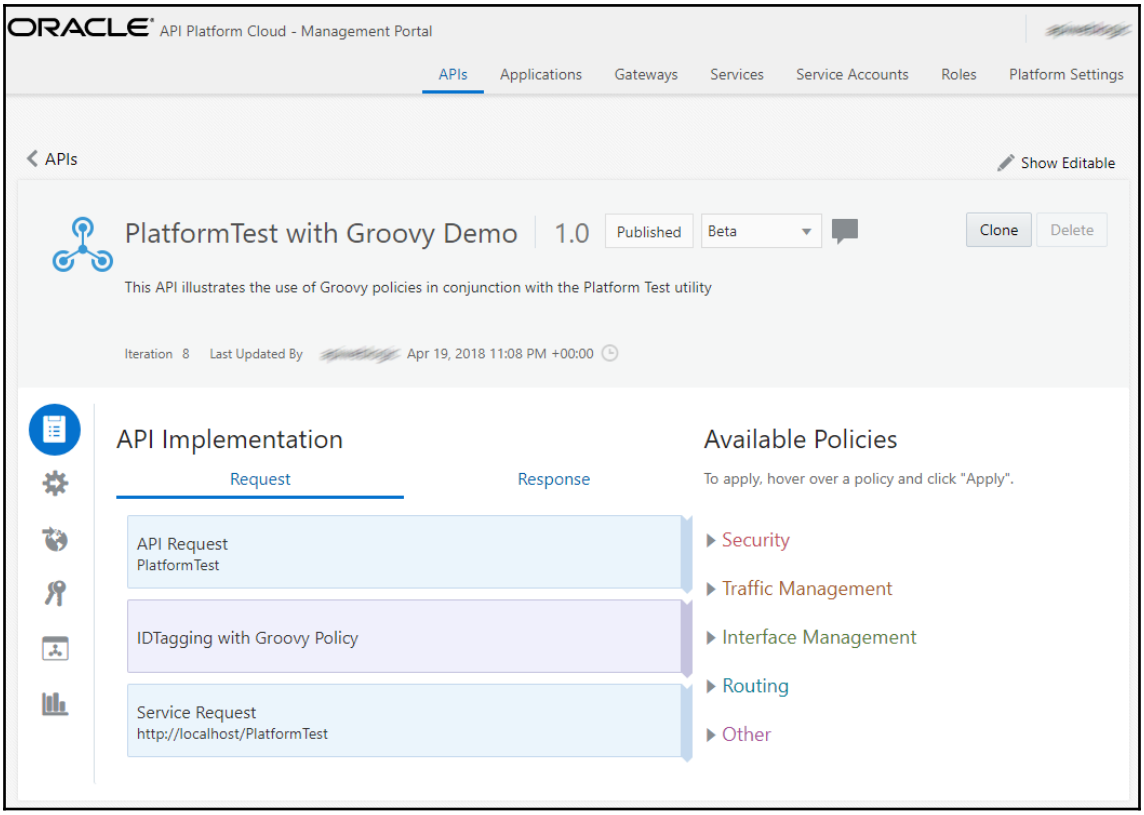

Get MRA Artists
Examples (0)
2
GET
https://oc-144-21-82-92.compute.oraclecloud.com:9129/catalogue/artists
Params
Send
Save
Authorization
Headers (2)
Body
Pre-request Script
Tests
Cookies
Code
Key
Value
Description
Bulk Edit
Presets
api-key
64b56ec7-cef0-4359-840d-3fb0eef9cfa7
1
Authorization
Bearer eyJ4NXQjUzI1NiI6IldUdlBnTkNDTjNfUnFHRktCT25...
Body
Cookies (1)
Headers (12)
Test Results
Status: 200 OK
Time: 520 ms
Size: 1.86 KB
Pretty
Raw
Preview
JSON
Save Response
{
"metadata": {
"total_count": 1,
"result_count": 1,
"offset": 1
},
"artists": [
{
"artist_name": "Oasis",
"artist_id": "art123456",
"country": "UK",
"bio": "Oasis is a great band from Manchester",
"genres": "Rock, Pop",
"albums": [
{
"album_name": "(What's the Story) Morning Glory?",
"album_id": "alb000456",
"upc": "074646735121",
"release_date": "1995",
"song_count": 12,
"length_seconds": 3006,
"artist": {},
"songs": [
{

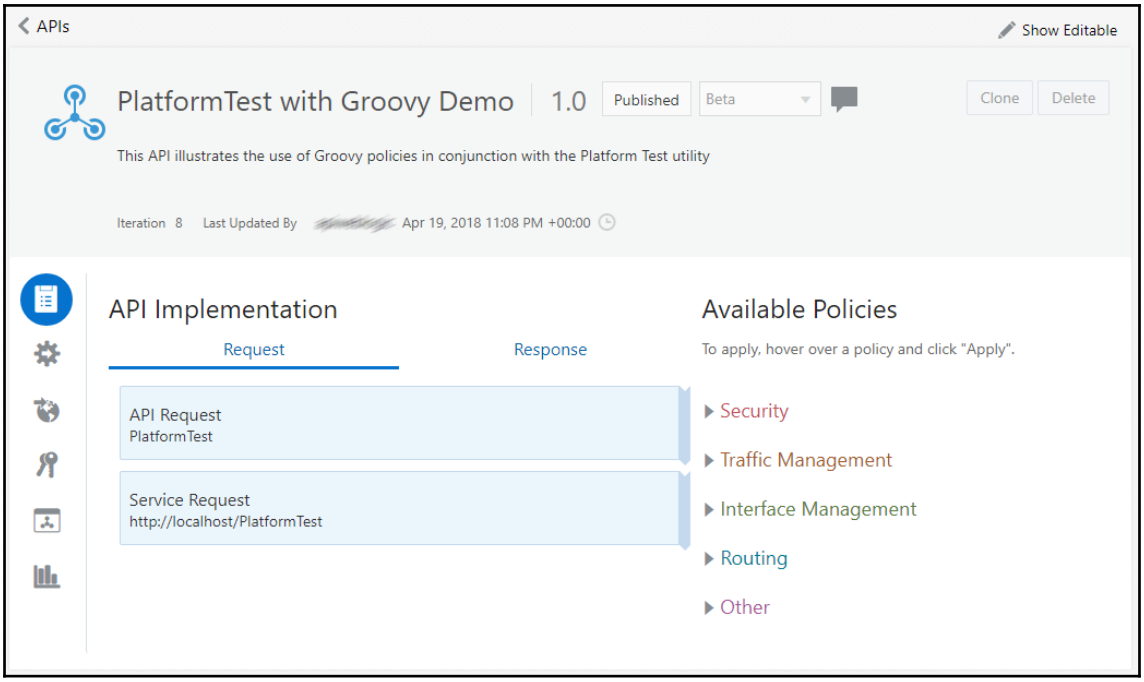
Chapter 9: Implementing Custom Policies






```
[Jan 18, 2018 03:04:14 PM UTC:DEBUG actions.BaseDeploymentAction] ActionVerification payLoad:{"verifyAction":{"actionConfig":"<?xml version = '1.0' encoding = 'UTF-8'?>\
n<apipActionConfig>\n    <instanceId>o:GroovyScript/1.0/9<\/instanceId>\n    <config>{\"script\":\"context.getServiceRequest().setHeader(\\\"traceId\\\", System.getenv(\\\
"GWAY_NODE_NAME\\\"))\\n\\ndef time = new java.util.Date()\\ndef generator = new java.util.Random(time.getTime())\\n\\ncontext.getServiceRequest().setHeader(\\\"spanId\\
\", generator.nextLong())\"}<\/config>\n<\/apipActionConfig>\n","name":"ApipAction"}}

[Jan 18, 2018 03:04:14 PM UTC:DEBUG ocsg.ApipAction] Initiating policy: o:GroovyScript/1.0

[Jan 18, 2018 03:04:14 PM UTC:ERROR ocsg.ApipAction] Failed to create policy runtime

org.codehaus.groovy.control.MultipleCompilationErrorsException: startup failed:
Script151628785418919732403 39.groovy: 16: [Static type checking] - Cannot find matching method oracle.apiplatform.policies.sdk.context.ServiceRequest#setHeader(java.lan
.String, long). Please check if the declared type is right and if the method exists.
 @ line 16, column 1.
   context.getServiceRequest().setHeader("spanId", generator.nextLong())
   ^

1 error

        at org.codehaus.groovy.control.ErrorCollector.failIfErrors(ErrorCollector.java:310)
        at org.codehaus.groovy.control.CompilationUnit.applyToPrimaryClassNodes(CompilationUnit.java:1073)
        at org.codehaus.groovy.control.CompilationUnit.doPhaseOperation(CompilationUnit.java:591)
        at org.codehaus.groovy.control.CompilationUnit.processPhaseOperations(CompilationUnit.java:569)
        at org.codehaus.groovy.control.CompilationUnit.compile(CompilationUnit.java:546)
        at groovy.lang.GroovyClassLoader.doParseClass(GroovyClassLoader.java:298)
        at groovy.lang.GroovyClassLoader.parseClass(GroovyClassLoader.java:268)
        at groovy.lang.GroovyClassLoader.parseClass(GroovyClassLoader.java:254)
        at groovy.lang.GroovyClassLoader.parseClass(GroovyClassLoader.java:211)
        at groovy.lang.GroovyClassLoader.parseClass(GroovyClassLoader.java:221)
        at oracle.apiplatform.policies.groovyscript.GroovyScriptRuntime.<init>(GroovyScriptRuntime.java:90)
        at oracle.apiplatform.policies.groovyscript.GroovyScriptRuntimeFactory.getRuntime(GroovyScriptRuntimeFactory.java:24)
        at oracle.apiplatform.policies.sdk.ocsg.ApipAction.doInit(ApipAction.java:54)
        at oracle.apiplatform.policies.sdk.ocsg.ApipAction.doInit(ApipAction.java:26)
        at oracle.apiplatform.policies.sdk.ocsg.BaseAction.init(BaseAction.java:27)
```


ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
APIs
Show Editable
PlatformTest with Groovy Demo
1.0
Published
Beta
Clone
Delete
This API illustrates the use of Groovy policies in conjunction with the Platform Test utility
Iteration 8
Last Updated By
Apr 19, 2018 11:08 PM +00:00
API Implementation
Request
Response
API Request
PlatformTest
IDTagging with Groovy Policy
Service Request
http://localhost/PlatformTest
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other


APIs
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PlatformTest with Groovy Demo
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API Implementation
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API Request
PlatformTest
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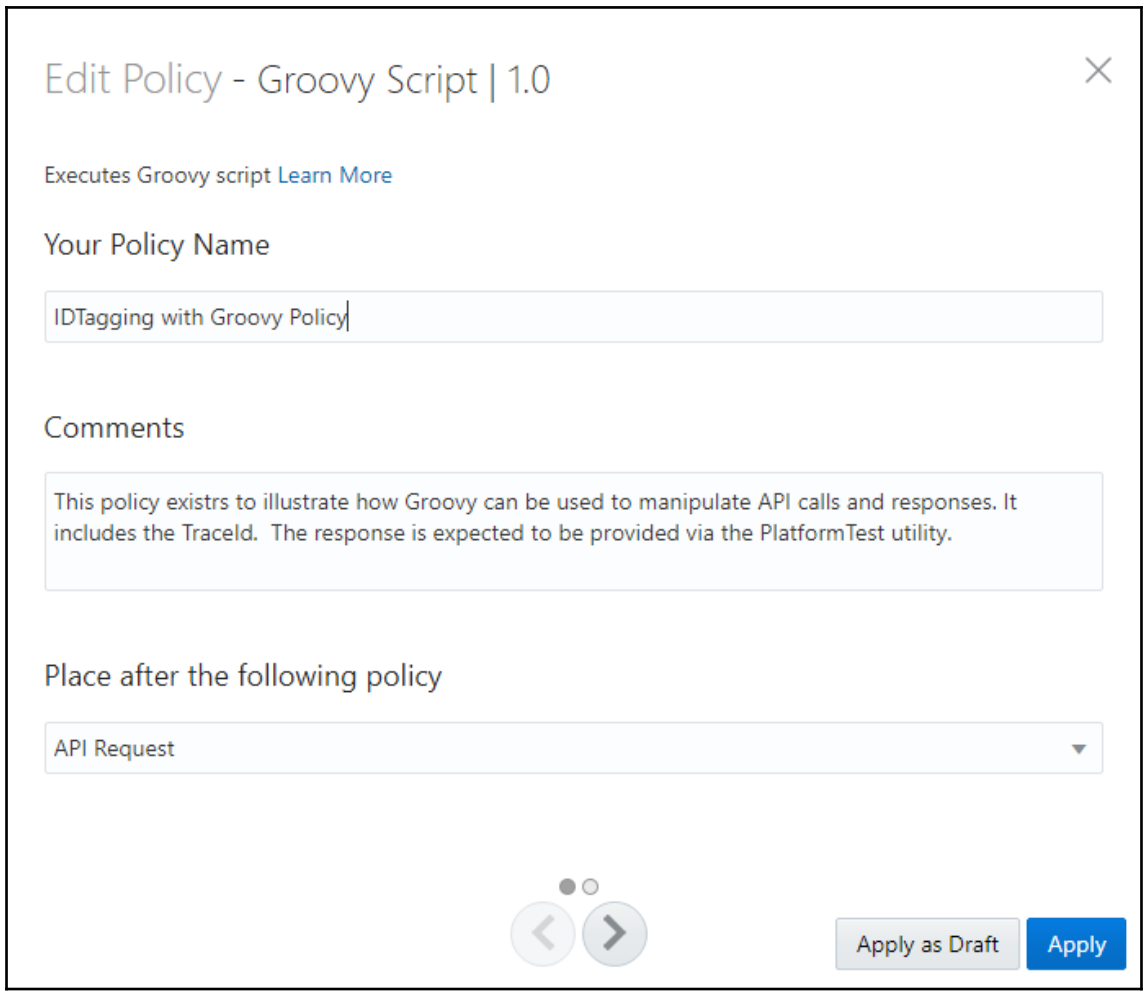
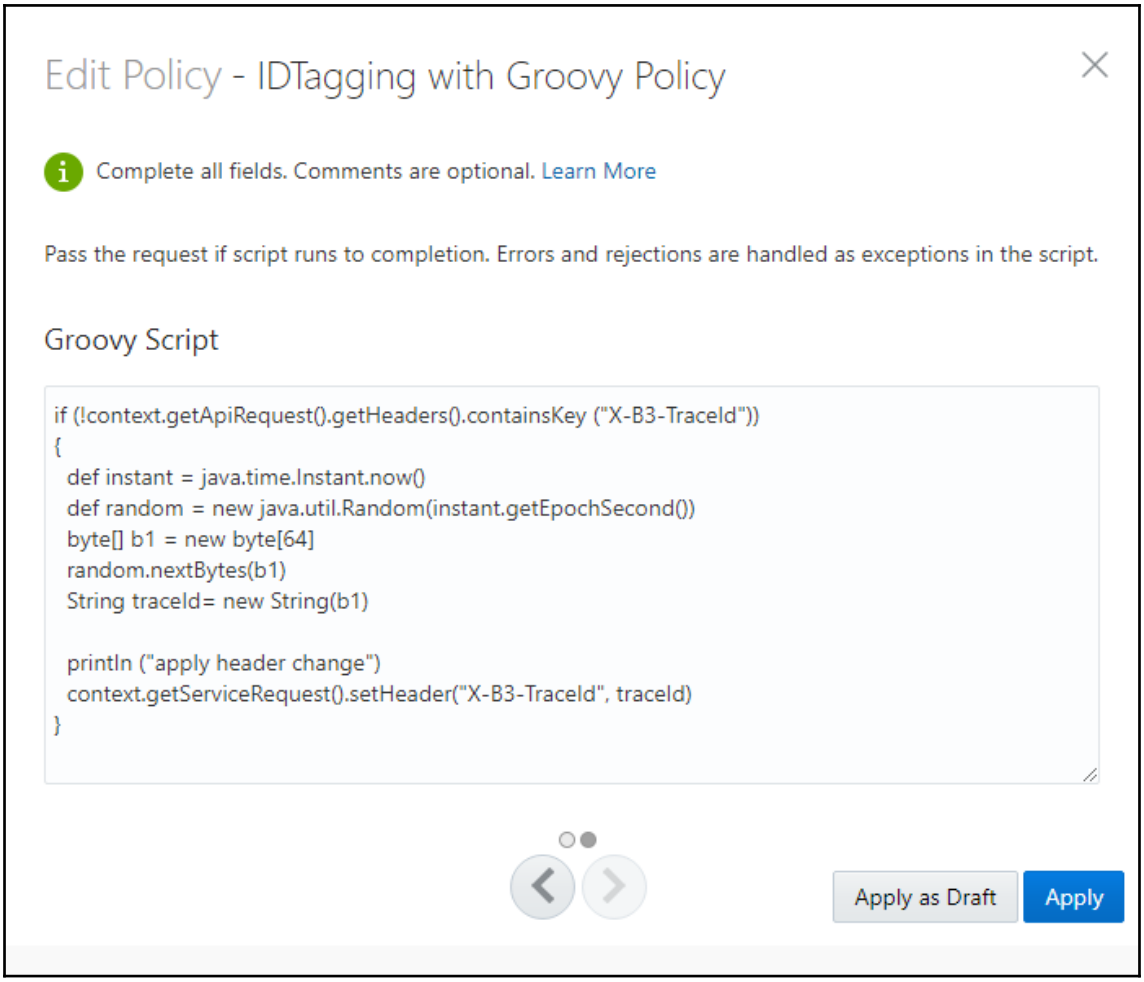
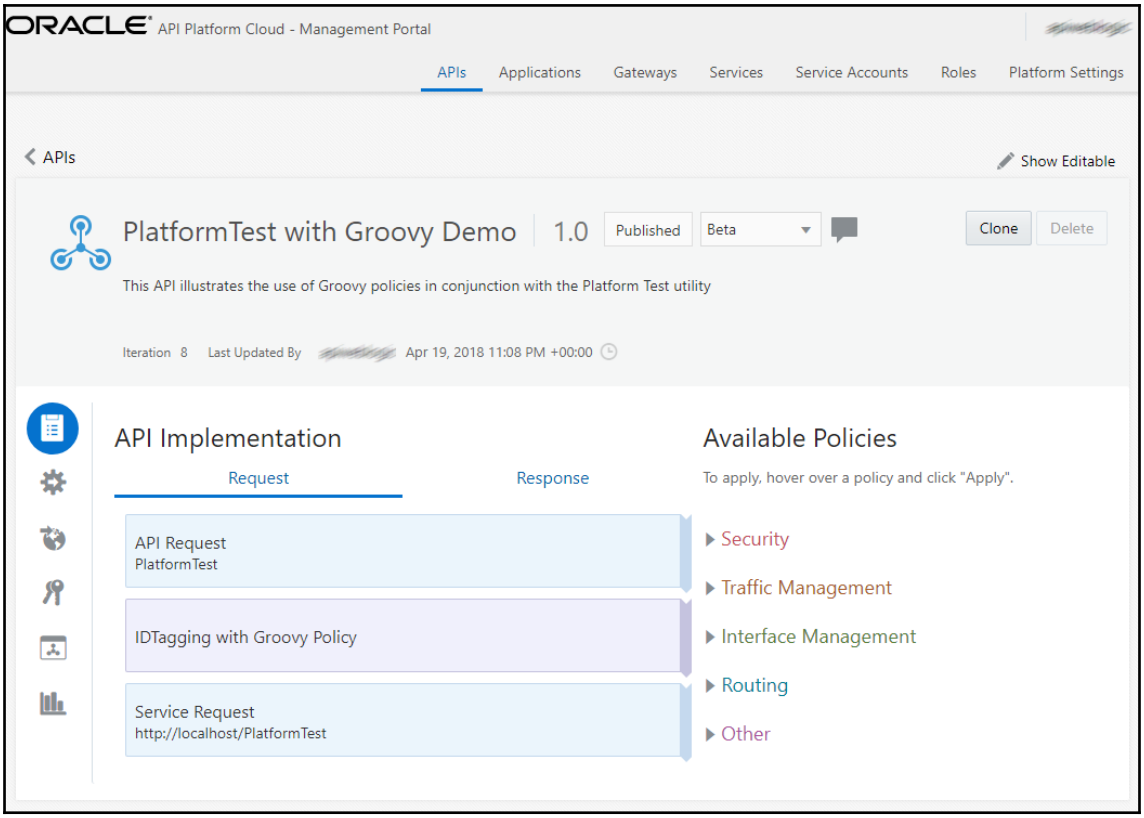
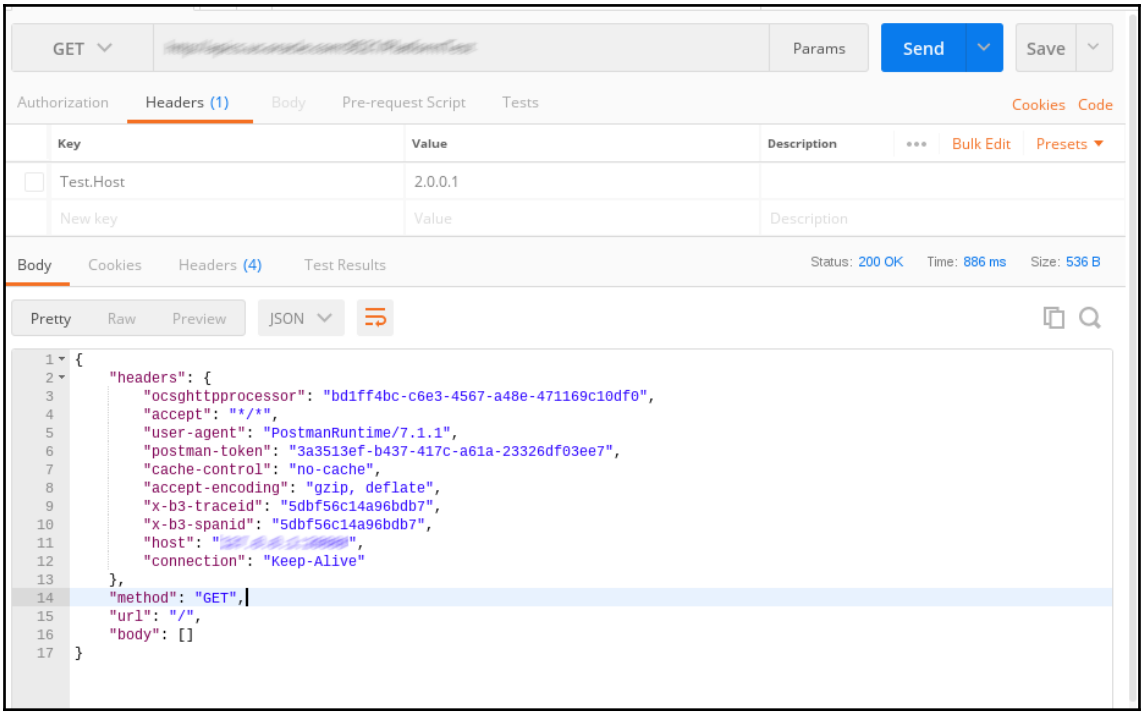
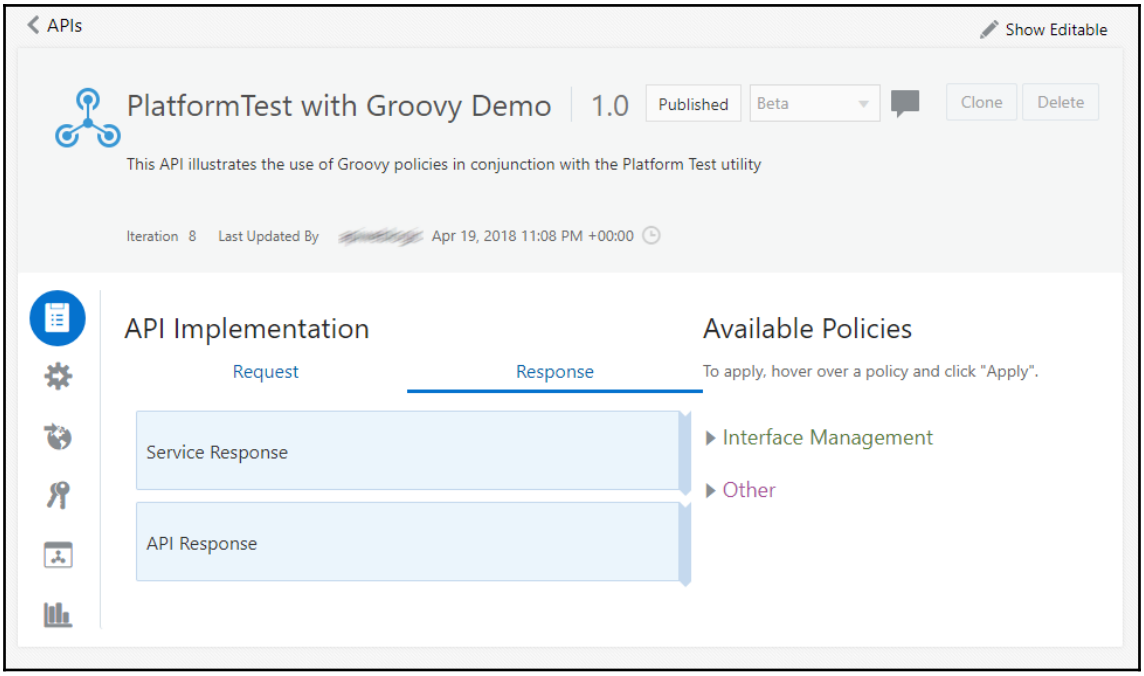
Other

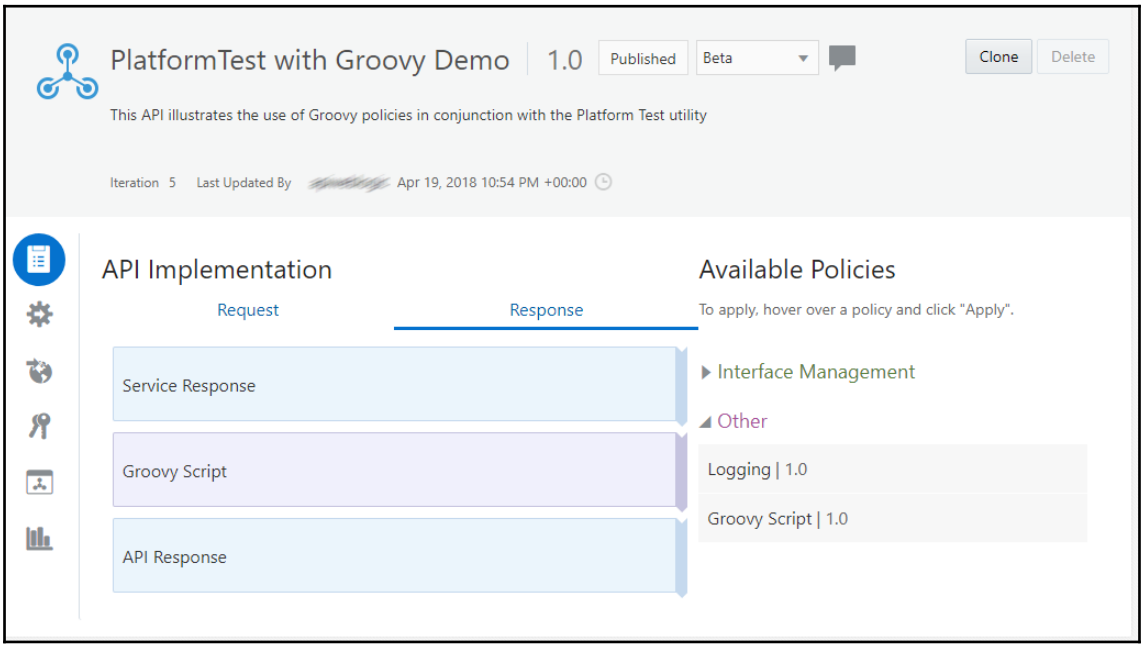

Edit Policy - Groovy Script | 1.0
Executes Groovy script Learn More
Your Policy Name
IDTagging with Groovy Policy
Comments
This policy existrs to illustrate how Groovy can be used to manipulate API calls and responses. It includes the TraceId. The response is expected to be provided via the PlatformTest utility.
Place after the following policy
API Request
Apply as Draft
Apply

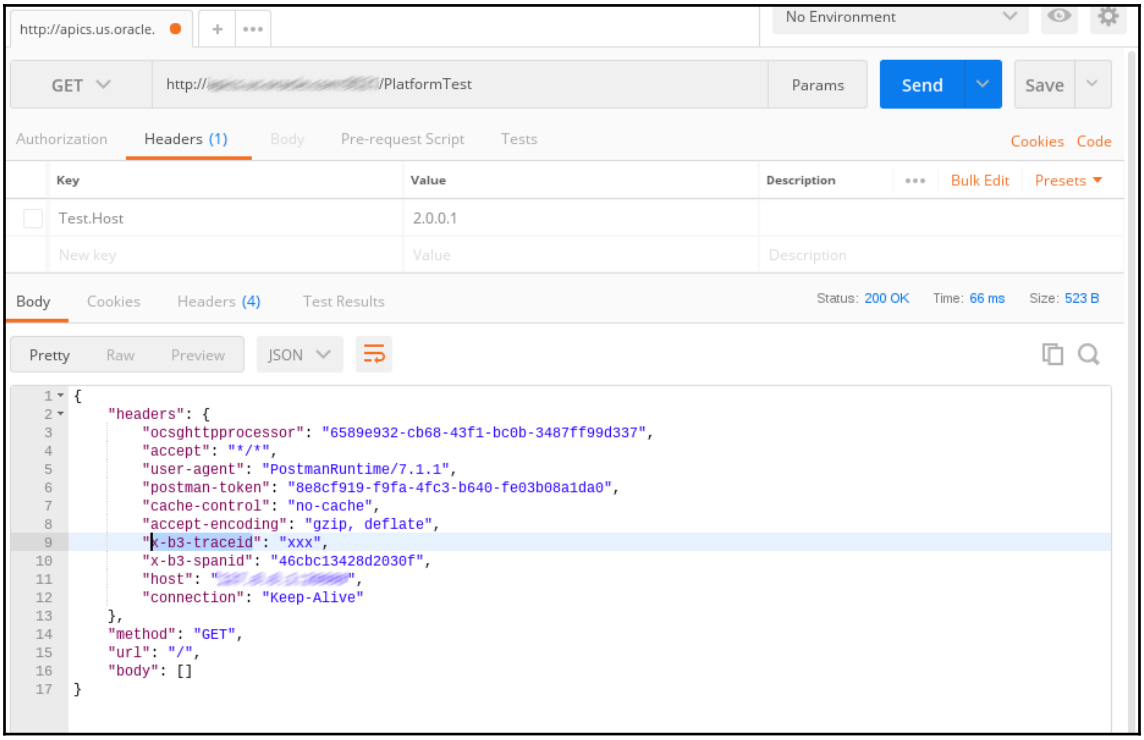

Edit Policy - IDTagging with Groovy Policy
Complete all fields. Comments are optional. Learn More
Pass the request if script runs to completion. Errors and rejections are handled as exceptions in the script.
Groovy Script
if (!context.getApiRequest().getHeaders().containsKey ("X-B3-TraceId"))
{
def instant = java.time.Instant.now()
def random = new java.util.Random(instant.getEpochSecond())
byte[] b1 = new byte[64]
random.nextBytes(b1)
String traceId= new String(b1)
println ("apply header change")
context.getServiceRequest().setHeader("X-B3-TraceId", traceId)
}
Apply as Draft
Apply

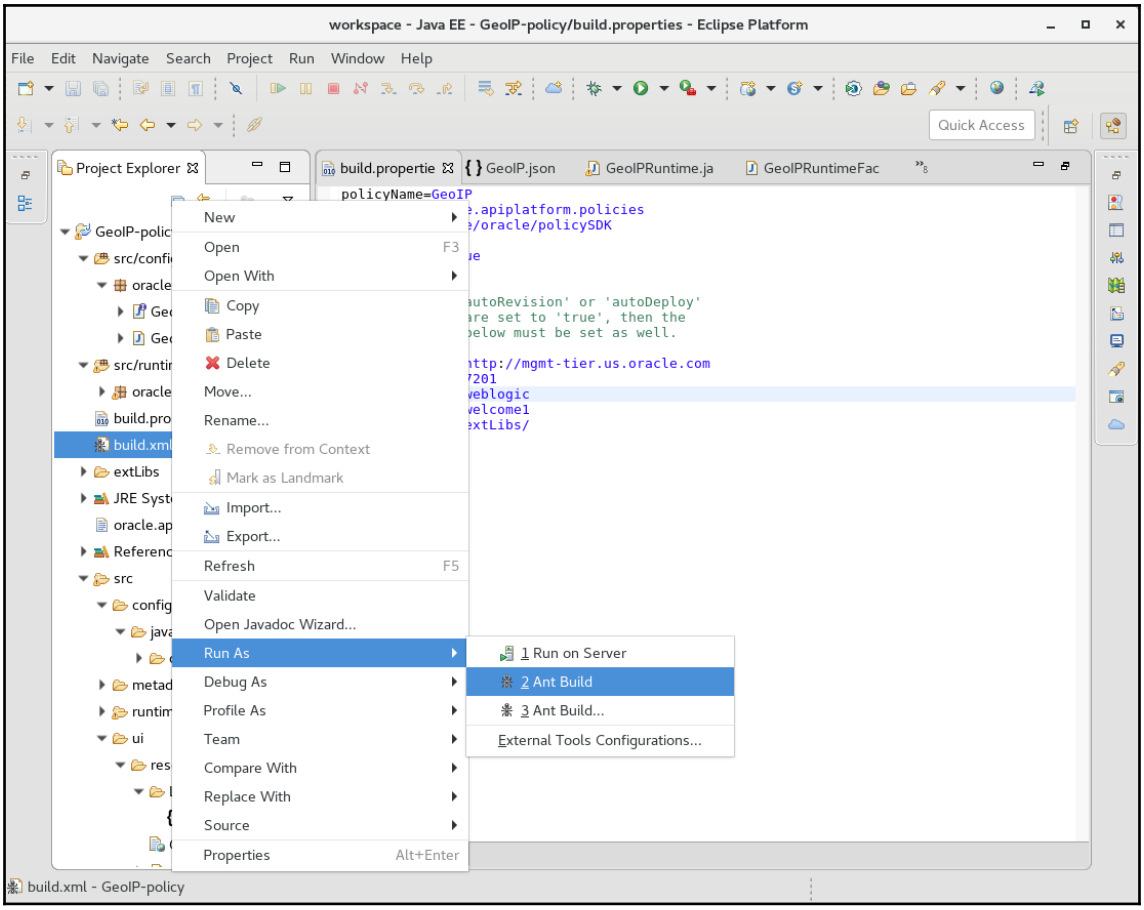

ORACLE API Platform Cloud - Management Portal
APIs
Applications
Gateways
Services
Service Accounts
Roles
Platform Settings
APIs
Show Editable
PlatformTest with Groovy Demo
1.0
Published
Beta
Clone
Delete
This API illustrates the use of Groovy policies in conjunction with the Platform Test utility
Iteration 8
Last Updated By
Apr 19, 2018 11:08 PM +00:00
API Implementation
Request
Response
API Request
PlatformTest
IDTagging with Groovy Policy
Service Request
http://localhost/PlatformTest
Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other

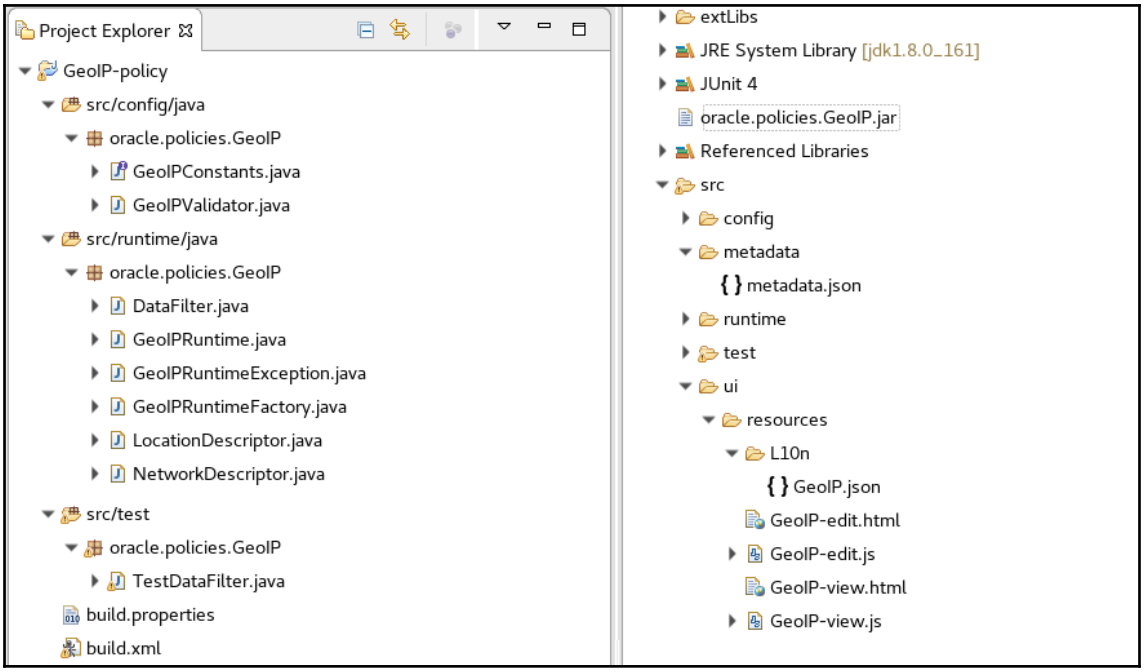

GET
Params
Send
Save
Authorization
Headers (1)
Body
Pre-request Script
Tests
Cookies
Code
Key
Value
Description
Bulk Edit
Presets
Test.Host
2.0.0.1
New key
Value
Description
Body
Cookies
Headers (4)
Test Results
Status: 200 OK
Time: 886 ms
Size: 536 B
Pretty
Raw
Preview
JSON
{
"headers": {
"ocsghttpprocessor": "bd1ff4bc-c6e3-4567-a48e-471169c10df0",
"accept": "*/*",
"user-agent": "PostmanRuntime/7.1.1",
"postman-token": "3a3513ef-b437-417c-a61a-23326df03ee7",
"cache-control": "no-cache",
"accept-encoding": "gzip, deflate",
"x-b3-traceid": "5dbf56c14a96bdb7",
"x-b3-spanid": "5dbf56c14a96bdb7",
"host": "
"connection": "Keep-Alive"
},
"method": "GET",
"url": "/",
"body": []
}

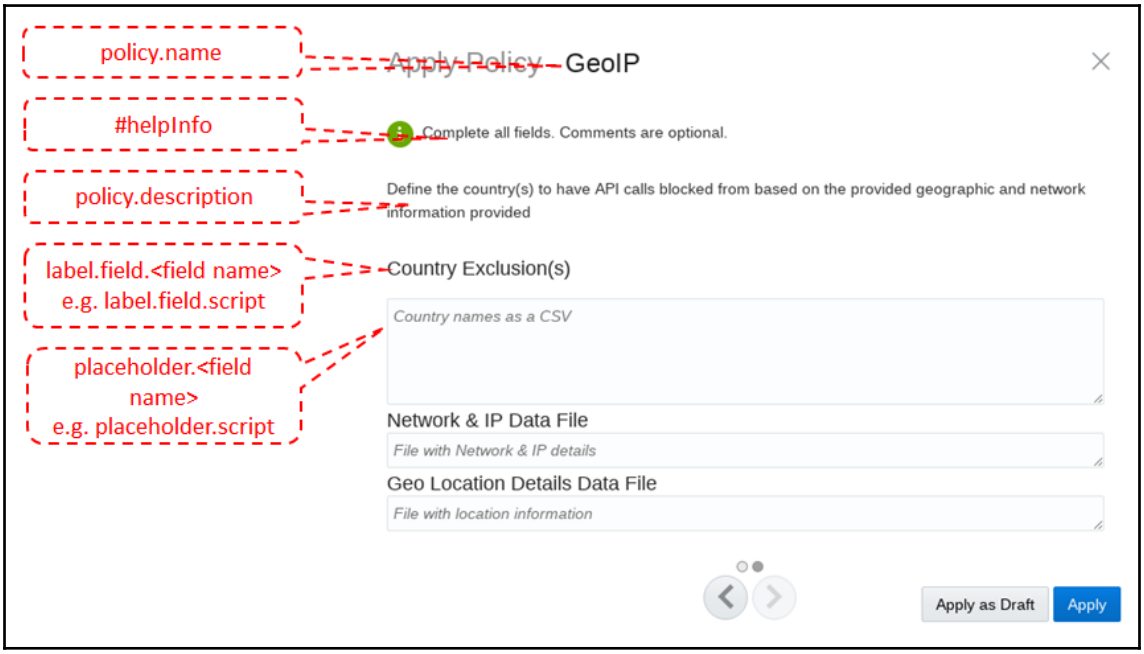

APIs
Show Editable
PlatformTest with Groovy Demo
1.0
Published
Beta
Clone
Delete
This API illustrates the use of Groovy policies in conjunction with the Platform Test utility
Iteration 8
Last Updated By
Apr 19, 2018 11:08 PM +00:00
API Implementation
Request
Response
Service Response
API Response
Available Policies
To apply, hover over a policy and click "Apply".
Interface Management
Other

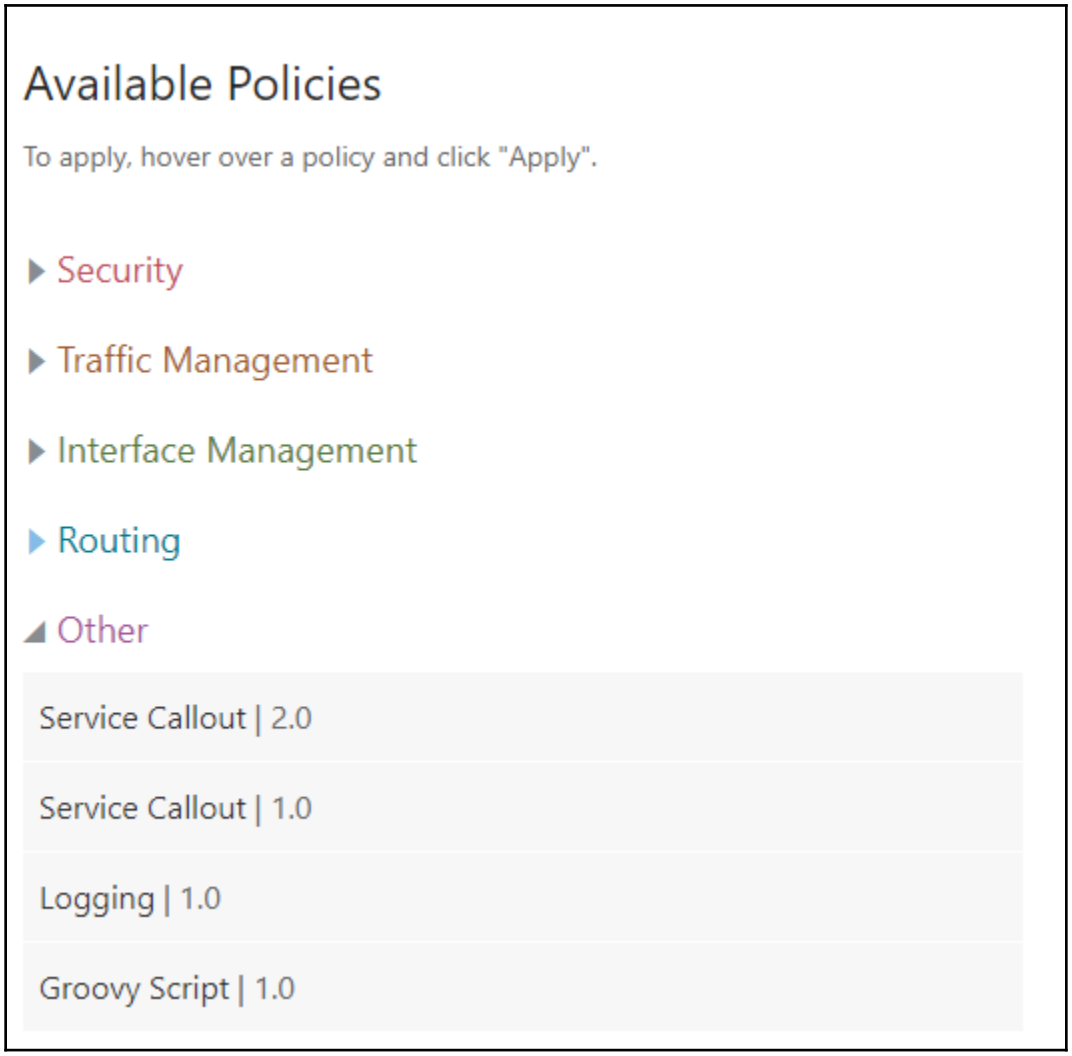

PlatformTest with Groovy Demo
1.0
Published
Beta
Clone
Delete
This API illustrates the use of Groovy policies in conjunction with the Platform Test utility
Iteration 5
Last Updated By
Apr 19, 2018 10:54 PM +00:00
API Implementation
Request
Response
Service Response
Groovy Script
API Response
Available Policies
To apply, hover over a policy and click "Apply".
Interface Management
Other
Logging | 1.0
Groovy Script | 1.0


http://apics.us.oracle.
No Environment
GET
http://[redacted]/PlatformTest
Params
Send
Save
Authorization
Headers (1)
Body
Pre-request Script
Tests
Cookies
Code
Key
Value
Description
Bulk Edit
Presets
Test.Host
2.0.0.1
New key
Value
Description
Body
Cookies
Headers (4)
Test Results
Status: 200 OK
Time: 66 ms
Size: 523 B
Pretty
Raw
Preview
JSON
{
"headers": {
"ocsghttpprocessor": "6589e932-cb68-43f1-bc0b-3487ff99d337",
"accept": "*/*",
"user-agent": "PostmanRuntime/7.1.1",
"postman-token": "8e8cf919-f9fa-4fc3-b640-fe03b08a1da0",
"cache-control": "no-cache",
"accept-encoding": "gzip, deflate",
"x-b3-traceid": "xxx",
"x-b3-spanid": "46cbc13428d2030f",
"host": "[redacted]",
"connection": "Keep-Alive"
},
"method": "GET",
"url": "/",
"body": []
}

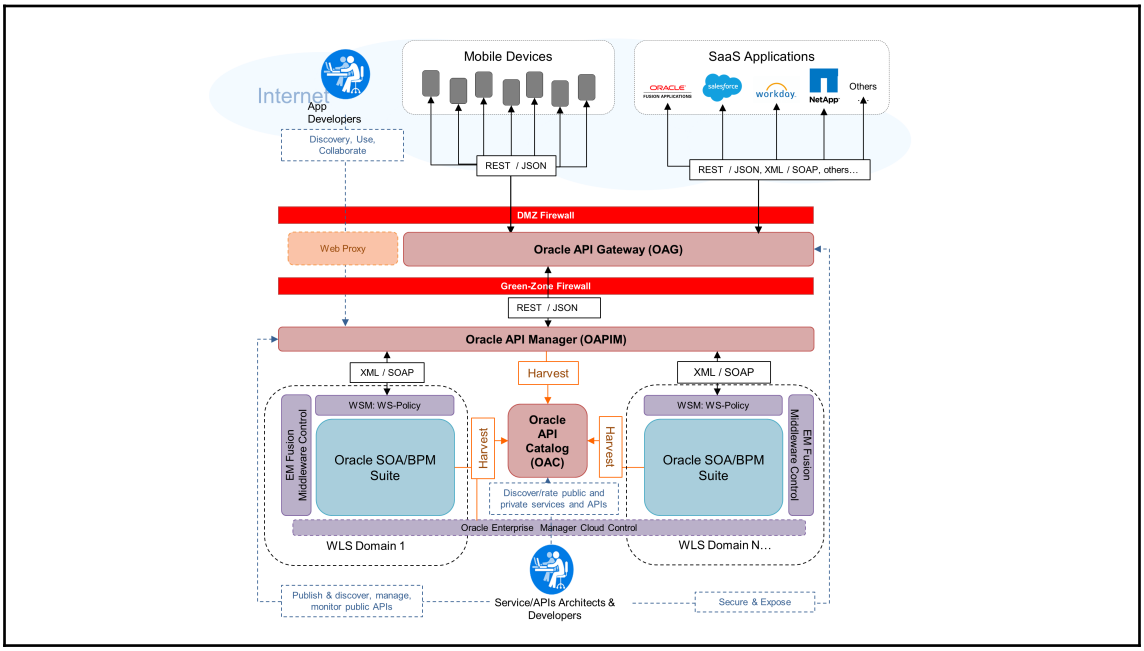

workspace - Java EE - GeoIP-policy/build.properties - Eclipse Platform
File Edit Navigate Search Project Run Window Help
Quick Access
Project Explorer
build.propertie
GeoIP.json
GeoIPRuntime.ja
GeoIPRuntimeFac
policyName=GeoIP
New
Open F3
Open With
Copy
Paste
Delete
Move...
Rename...
Remove from Context
Mark as Landmark
Import...
Export...
Refresh F5
Validate
Open Javadoc Wizard...
Run As
Debug As
Profile As
Team
Compare With
Replace With
Source
Properties Alt+Enter
1 Run on Server
2 Ant Build
3 Ant Build...
External Tools Configurations...
build.xml - GeoIP-policy

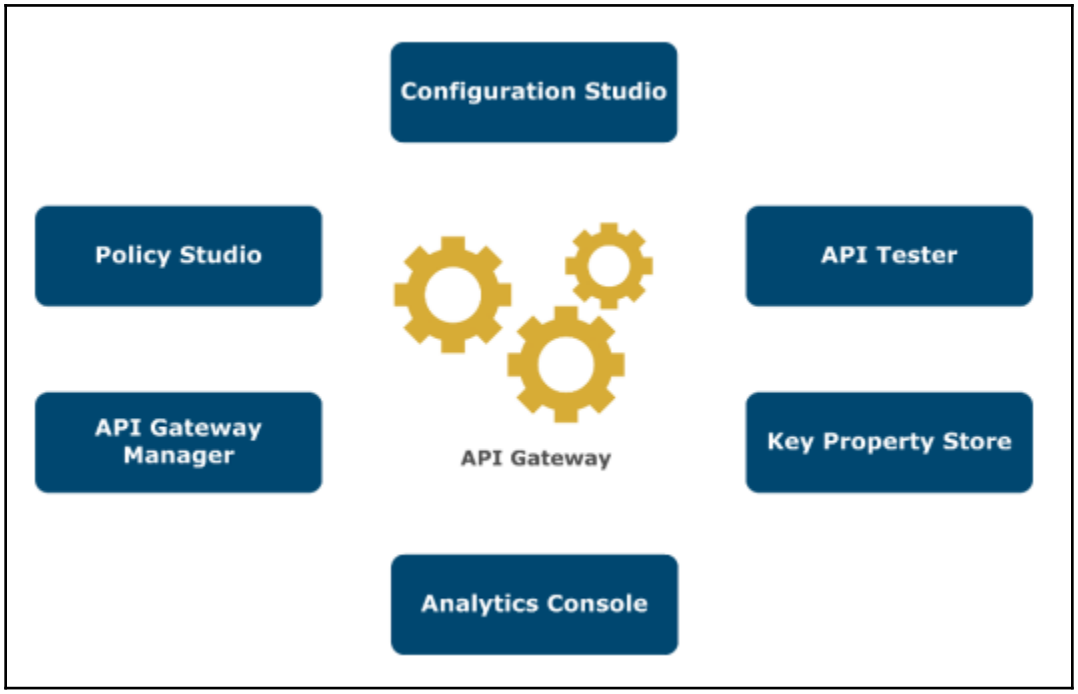

Project Explorer
GeoIP-policy
src/config/java
oracle.policies.GeoIP
GeoIPConstants.java
GeoIPValidator.java
src/runtime/java
oracle.policies.GeoIP
DataFilter.java
GeoIPRuntime.java
GeoIPRuntimeException.java
GeoIPRuntimeFactory.java
LocationDescriptor.java
NetworkDescriptor.java
src/test
oracle.policies.GeoIP
TestDataFilter.java
build.properties
build.xml
extLibs
JRE System Library [jdk1.8.0_161]
JUnit 4
oracle.policies.GeoIP.jar
Referenced Libraries
src
config
metadata
metadata.json
runtime
test
ui
resources
L10n
GeoIP.json
GeoIP-edit.html
GeoIP-edit.js
GeoIP-view.html
GeoIP-view.js

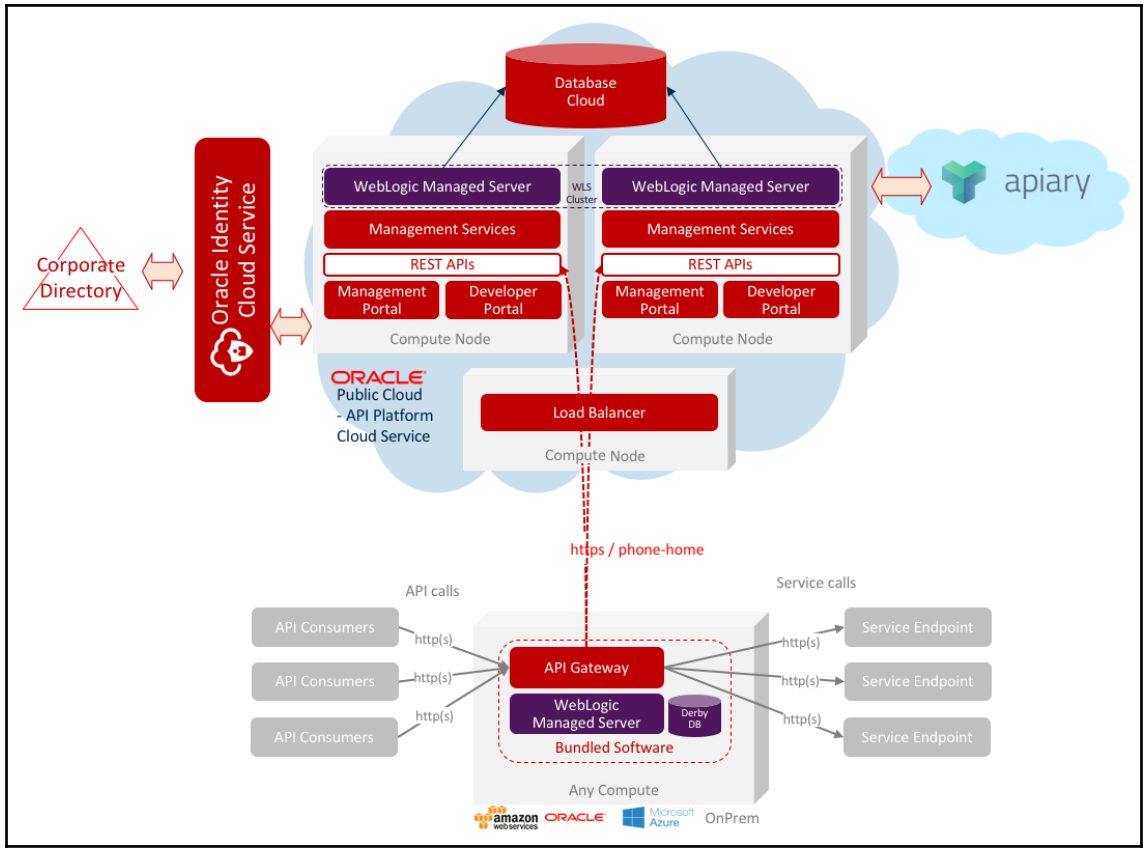

policy.name
#helpInfo
policy.description
label.field.<field name>
e.g. label.field.script
placeholder.<field
name>
e.g. placeholder.script
Apply Policy - GeoIP
Complete all fields. Comments are optional.
Define the country(s) to have API calls blocked from based on the provided geographic and network information provided
Country Exclusion(s)
Country names as a CSV
Network & IP Data File
File with Network & IP details
Geo Location Details Data File
File with location information
Apply as Draft
Apply

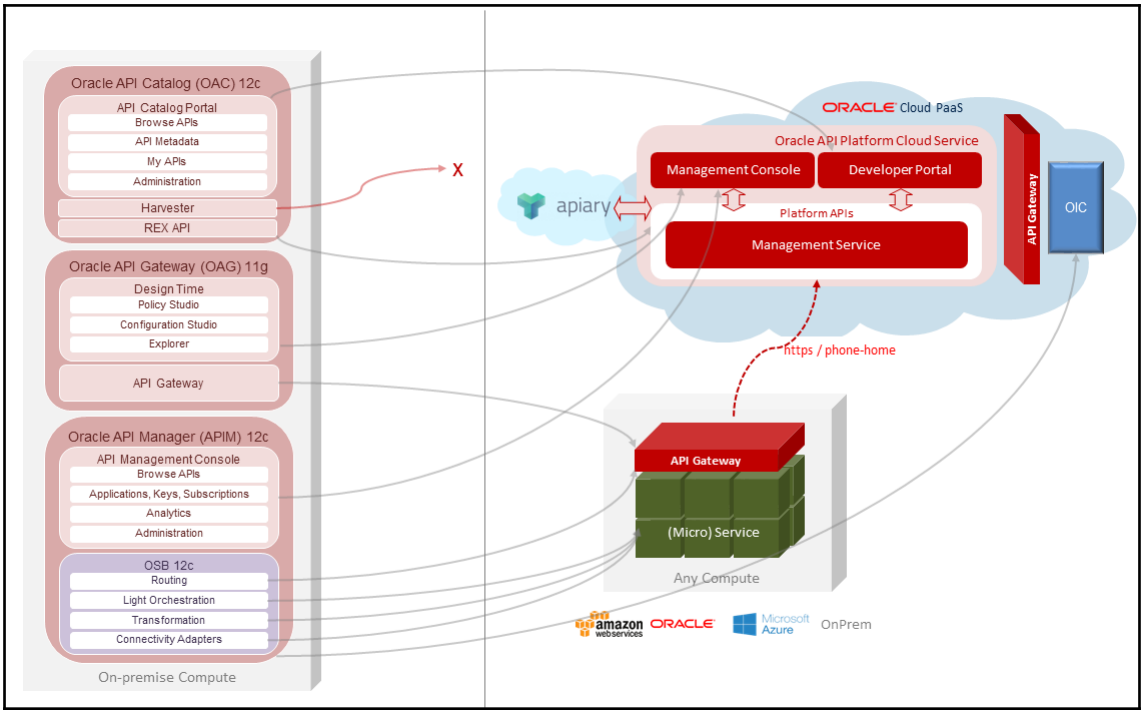

Available Policies
To apply, hover over a policy and click "Apply".
Security
Traffic Management
Interface Management
Routing
Other
Service Callout | 2.0
Service Callout | 1.0
Logging | 1.0
Groovy Script | 1.0

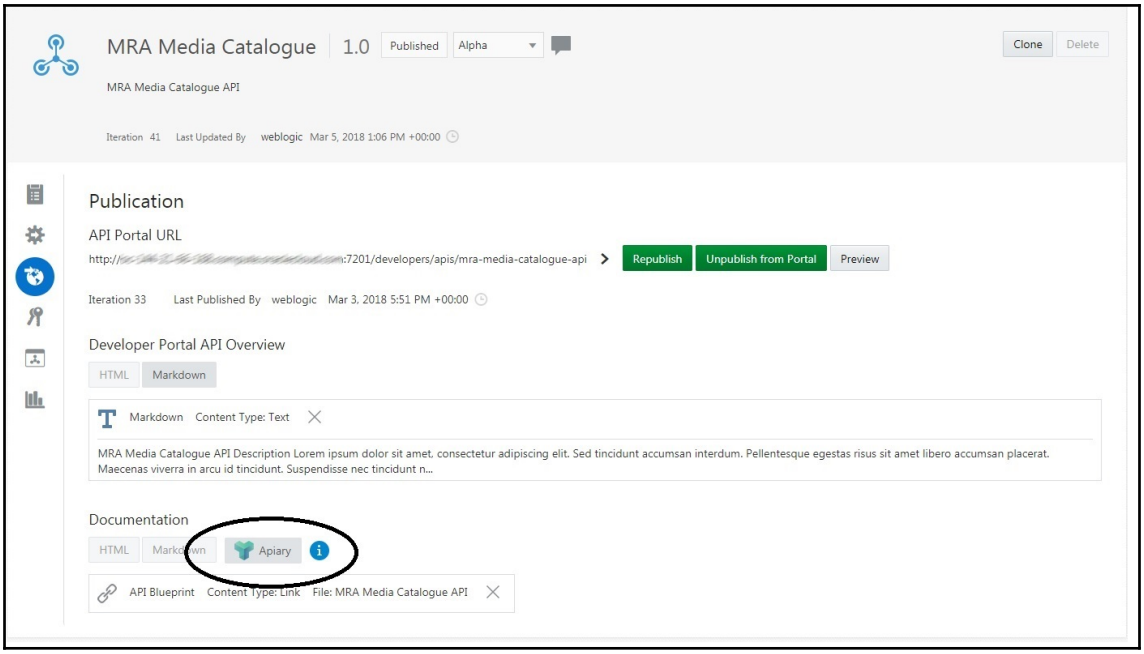
Chapter 10: Moving from API Management 12c to APIP CS




Configuration Studio
Policy Studio
API Tester
API Gateway Manager
API Gateway
Key Property Store
Analytics Console


Database Cloud
Oracle Identity Cloud Service
Corporate Directory
WebLogic Managed Server
WLS Cluster
WebLogic Managed Server
Management Services
Management Services
REST APIs
REST APIs
Management Portal
Developer Portal
Management Portal
Developer Portal
Compute Node
Compute Node
apiary
ORACLE
Public Cloud
- API Platform
Cloud Service
Load Balancer
Compute Node
https / phone-home
API calls
Service calls
API Consumers
API Consumers
API Consumers
http(s)
http(s)
http(s)
API Gateway
WebLogic Managed Server
Derby DB
Bundled Software
Any Compute
http(s)
http(s)
http(s)
Service Endpoint
Service Endpoint
Service Endpoint
amazon web services
ORACLE
Microsoft Azure
OnPrem


Oracle API Catalog (OAC) 12c
API Catalog Portal
Browse APIs
API Metadata
My APIs
Administration
Harvester
REX API
Oracle API Gateway (OAG) 11g
Design Time
Policy Studio
Configuration Studio
Explorer
API Gateway
Oracle API Manager (APIM) 12c
API Management Console
Browse APIs
Applications, Keys, Subscriptions
Analytics
Administration
OSB 12c
Routing
Light Orchestration
Transformation
Connectivity Adapters
On-premise Compute
X
apiary
ORACLE Cloud PaaS
Oracle API Platform Cloud Service
Management Console
Developer Portal
Platform APIs
Management Service
API Gateway
OIC
https / phone-home
API Gateway
(Micro) Service
Any Compute
amazon web services
ORACLE
Microsoft Azure
OnPrem


MRA Media Catalogue
1.0
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Alpha
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Delete
MRA Media Catalogue API
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weblogic
Mar 5, 2018 1:06 PM +00:00
Publication
API Portal URL
:7201/developers/apis/mra-media-catalogue-api
Republish
Unpublish from Portal
Preview
Iteration 33
Last Published By
weblogic
Mar 3, 2018 5:51 PM +00:00
Developer Portal API Overview
HTML
Markdown
Markdown
Content Type: Text
MRA Media Catalogue API Description Lorem ipsum dolor sit amet. consectetur adipiscing elit. Sed tincidunt accumsan interdum. Pellentesque egestas risus sit amet libero accumsan placerat. Maecenas viverra in arcu id tincidunt. Suspendisse nec tincidunt n...
Documentation
HTML
Apiary
API Blueprint
Content Type: Link
File: MRA Media Catalogue API