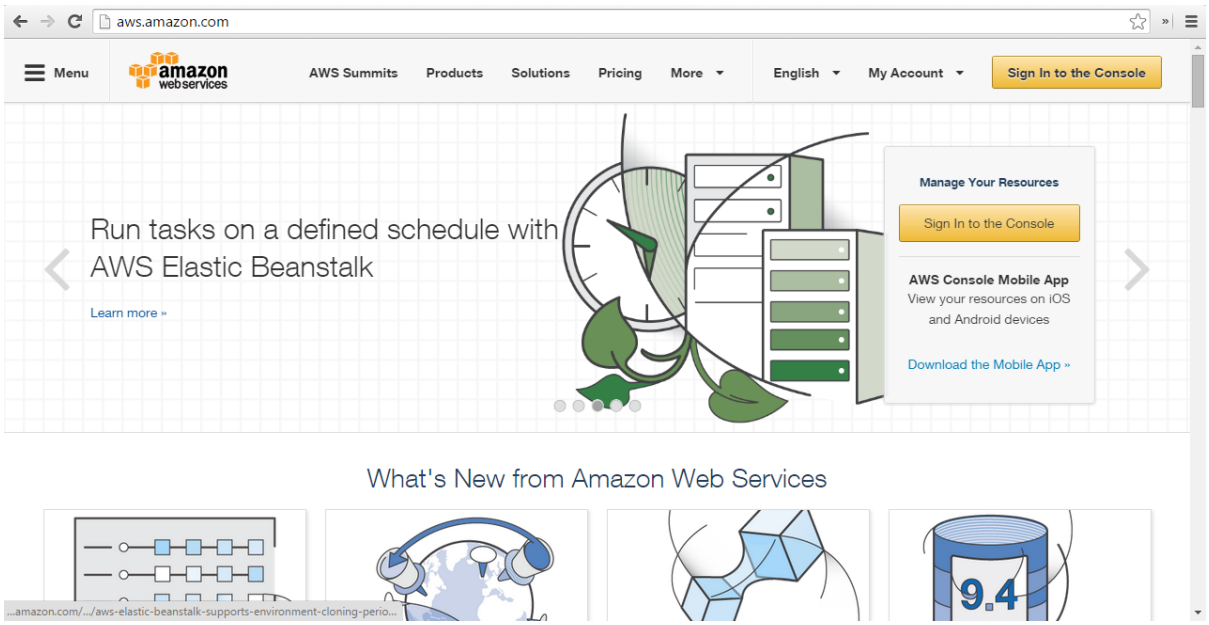
Chapter 1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AWS Console Mobile App
View your resources on iOS and Android devices
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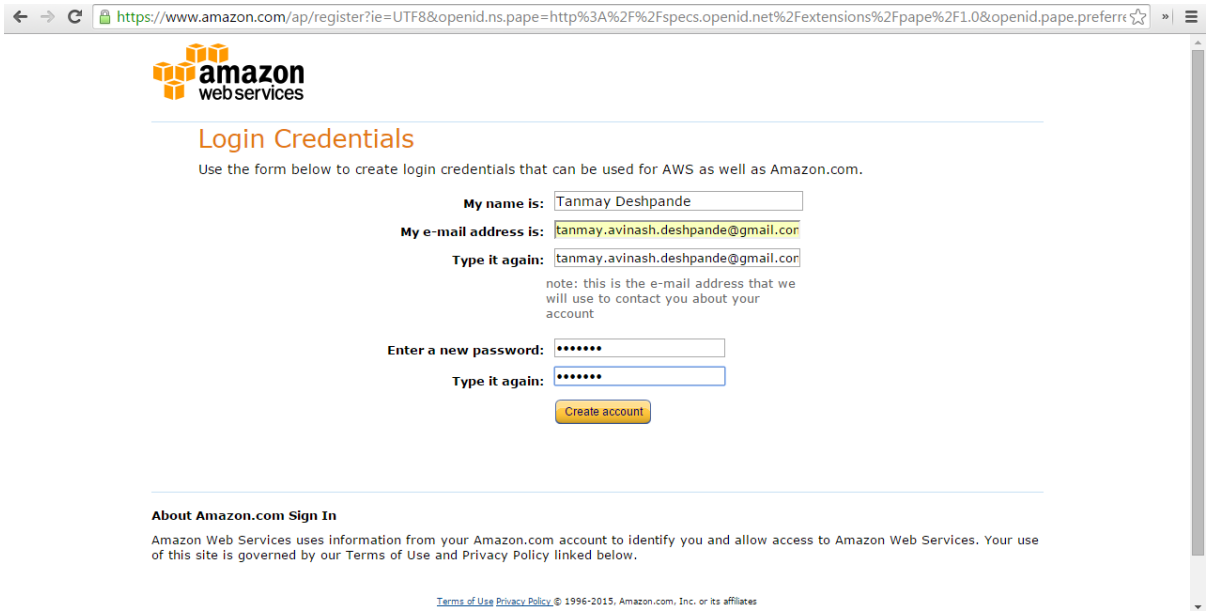
9.4


https://www.amazon.com/ap/register?ie=UTF8&openid.ns.pape=http%3A%2F%2Fspecs.openid.net%2Fextensions%2Fpape%2F1.0&openid.pape.preferr
amazon web services
Login Credentials
Use the form below to create login credentials that can be used for AWS as well as Amazon.com.
My name is:
Tanmay Deshpande
My e-mail address is:
tanmay.avinash.deshpande@gmail.cor
Type it again:
tanmay.avinash.deshpande@gmail.cor
note: this is the e-mail address that we will use to contact you about your account
Enter a new password:
Type it again:
Create account
About Amazon.com Sign In
Amazon Web Services uses information from your Amazon.com account to identify you and allow access to Amazon Web Services. Your use of this site is governed by our Terms of Use and Privacy Policy linked below.
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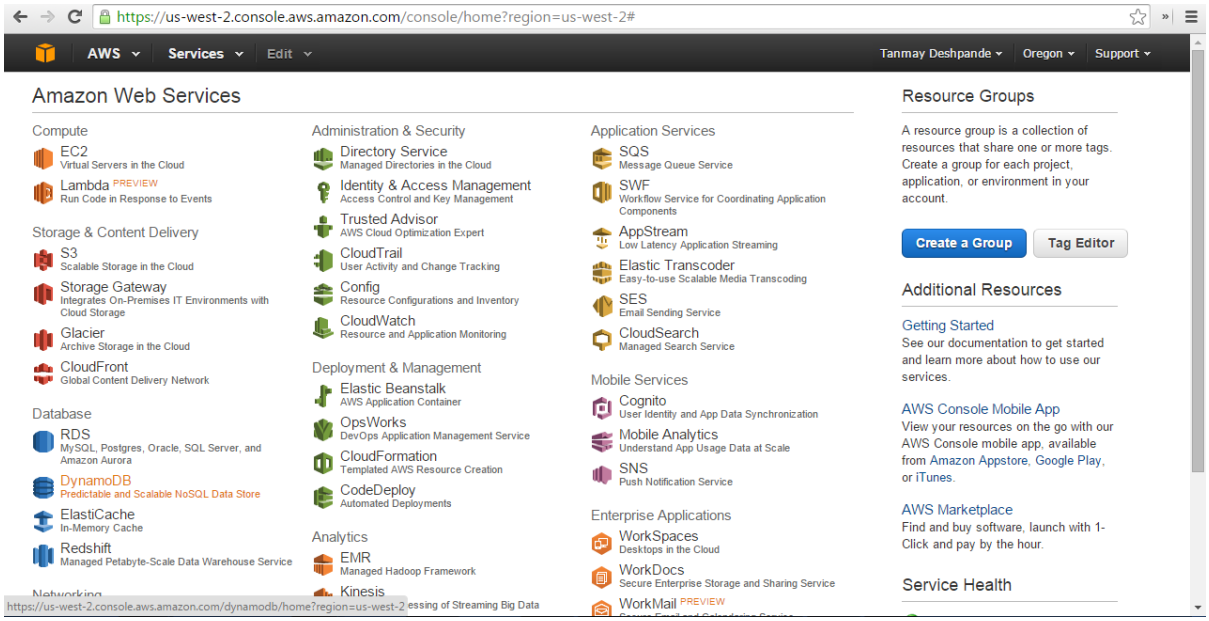
https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2#
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Services
Edit
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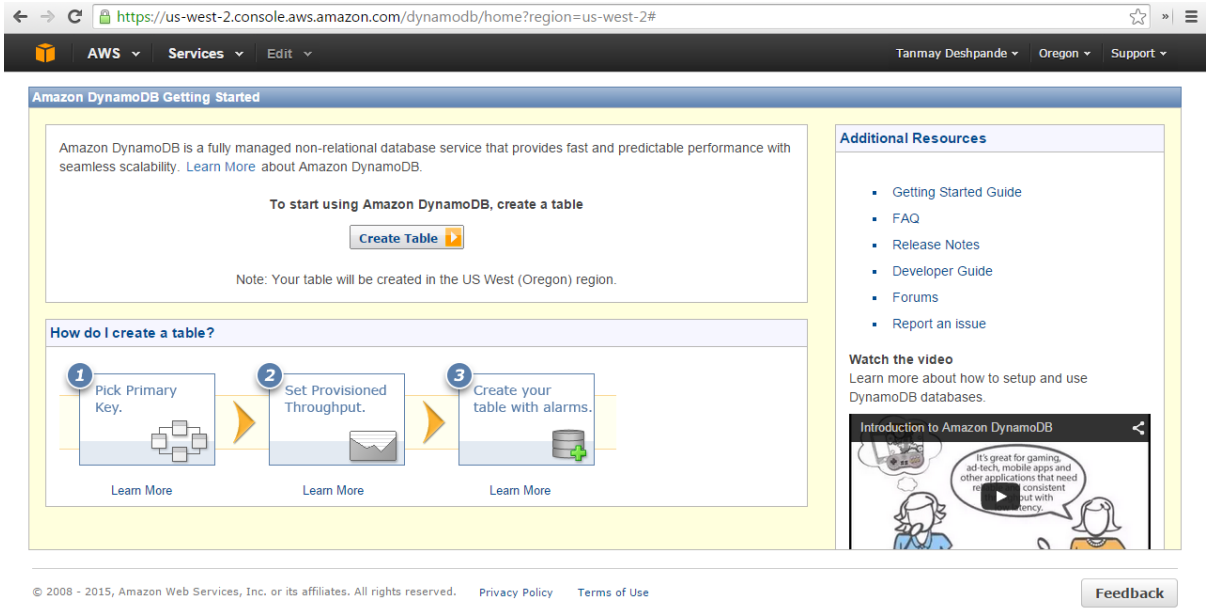
Support
Amazon Web Services
Compute
EC2
Virtual Servers in the Cloud
Lambda PREVIEW
Run Code in Response to Events
Storage & Content Delivery
S3
Scalable Storage in the Cloud
Storage Gateway
Integrates On-Premises IT Environments with Cloud Storage
Glacier
Archive Storage in the Cloud
CloudFront
Global Content Delivery Network
Database
RDS
MySQL, Postgres, Oracle, SQL Server, and Amazon Aurora
DynamoDB
Predictable and Scalable NoSQL Data Store
ElastiCache
In-Memory Cache
Redshift
Managed Petabyte-Scale Data Warehouse Service
Administration & Security
Directory Service
Managed Directories in the Cloud
Identity & Access Management
Access Control and Key Management
Trusted Advisor
AWS Cloud Optimization Expert
CloudTrail
User Activity and Change Tracking
Config
Resource Configurations and Inventory
CloudWatch
Resource and Application Monitoring
Deployment & Management
Elastic Beanstalk
AWS Application Container
OpsWorks
DevOps Application Management Service
CloudFormation
Templated AWS Resource Creation
CodeDeploy
Automated Deployments
Analytics
EMR
Managed Hadoop Framework
Application Services
SQS
Message Queue Service
SWF
Workflow Service for Coordinating Application Components
AppStream
Low Latency Application Streaming
Elastic Transcoder
Easy-to-use Scalable Media Transcoding
SES
Email Sending Service
CloudSearch
Managed Search Service
Mobile Services
Cognito
User Identity and App Data Synchronization
Mobile Analytics
Understand App Usage Data at Scale
SNS
Push Notification Service
Enterprise Applications
WorkSpaces
Desktops in the Cloud
WorkDocs
Secure Enterprise Storage and Sharing Service
WorkMail PREVIEW
Resource Groups
A resource group is a collection of resources that share one or more tags. Create a group for each project, application, or environment in your account.
Create a Group
Tag Editor
Additional Resources
Getting Started
See our documentation to get started and learn more about how to use our services.
AWS Console Mobile App
View your resources on the go with our AWS Console mobile app, available from Amazon Appstore, Google Play, or iTunes.
AWS Marketplace
Find and buy software, launch with 1-Click and pay by the hour.
Service Health
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2


https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#
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Amazon DynamoDB Getting Started
Amazon DynamoDB is a fully managed non-relational database service that provides fast and predictable performance with seamless scalability. Learn More about Amazon DynamoDB.
To start using Amazon DynamoDB, create a table
Create Table
Note: Your table will be created in the US West (Oregon) region.
How do I create a table?
1 Pick Primary Key.
2 Set Provisioned Throughput.
3 Create your table with alarms.
Learn More
Learn More
Learn More
Additional Resources
Getting Started Guide
FAQ
Release Notes
Developer Guide
Forums
Report an issue
Watch the video
Learn more about how to setup and use DynamoDB databases.
Introduction to Amazon DynamoDB
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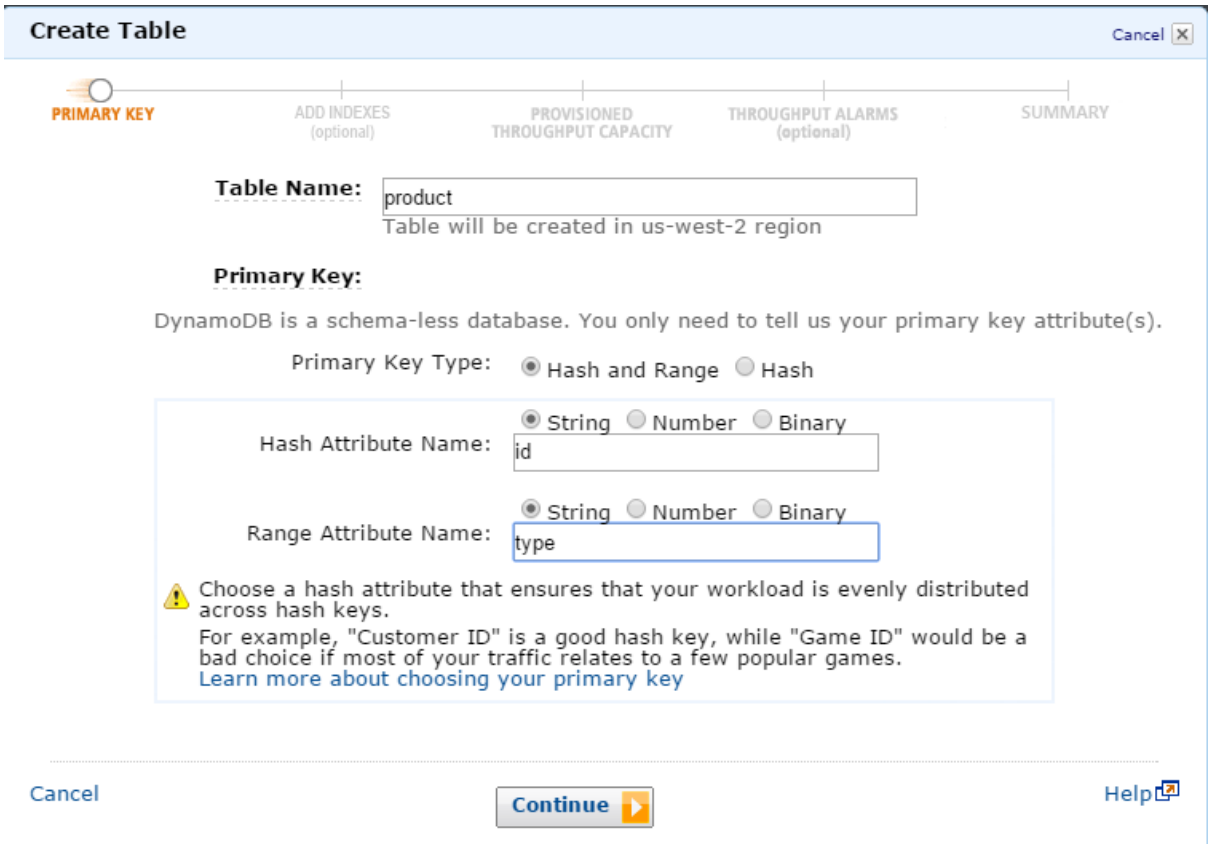
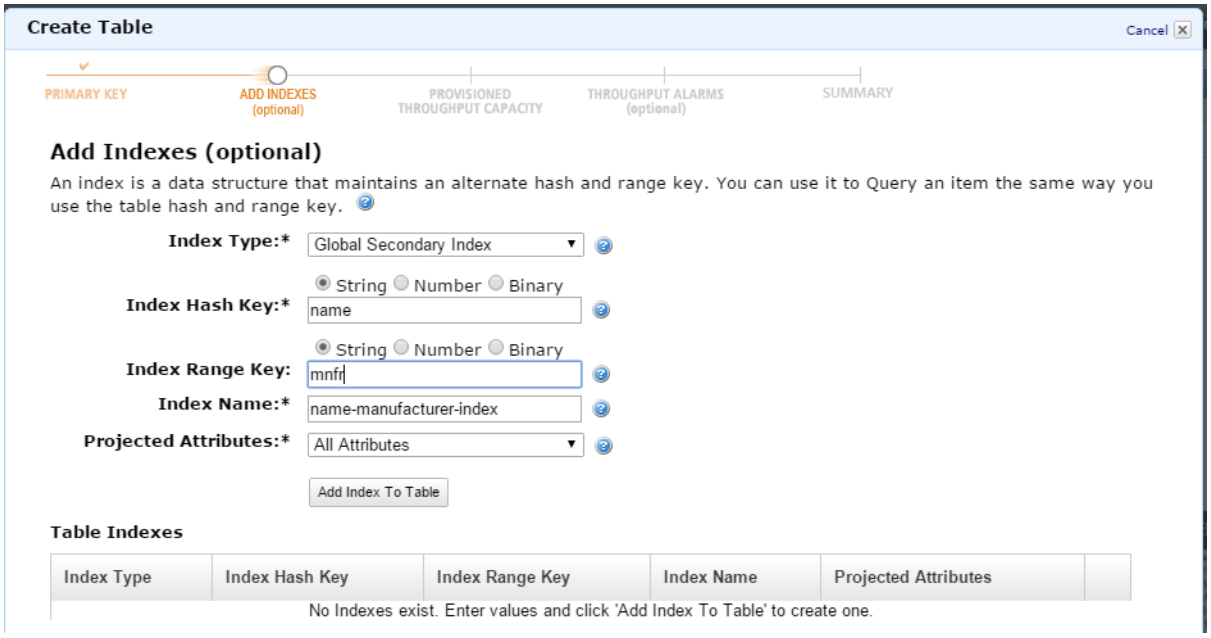
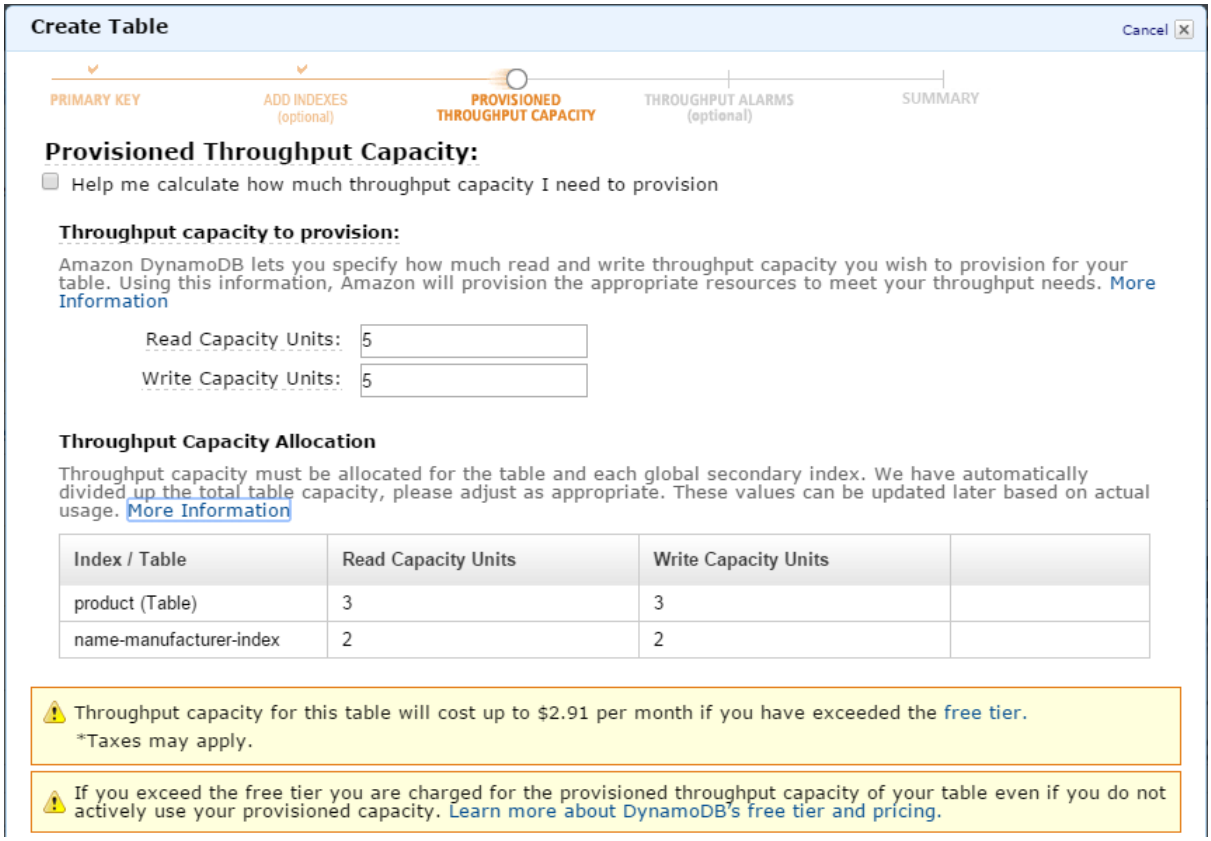
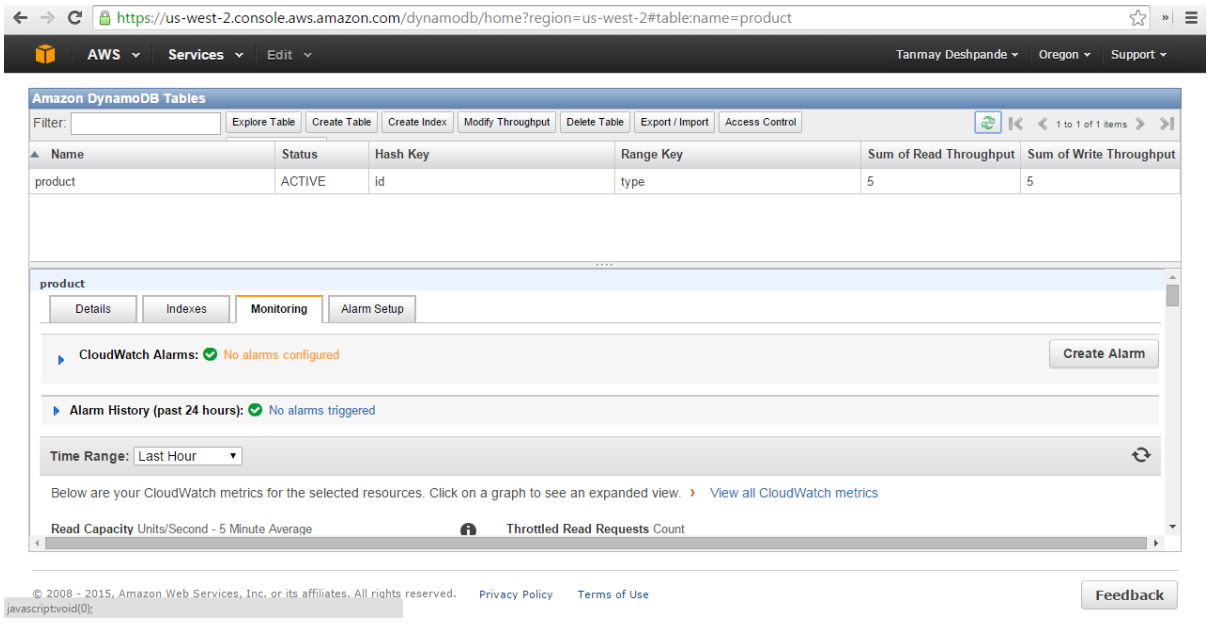

Create Table
Cancel
PRIMARY KEY
ADD INDEXES (optional)
PROVISIONED THROUGHPUT CAPACITY
THROUGHPUT ALARMS (optional)
SUMMARY
Table Name:
product
Table will be created in us-west-2 region
Primary Key:
DynamoDB is a schema-less database. You only need to tell us your primary key attribute(s).
Primary Key Type:
Hash and Range
Hash
Hash Attribute Name:
String
Number
Binary
id
Range Attribute Name:
String
Number
Binary
type
Choose a hash attribute that ensures that your workload is evenly distributed across hash keys.
For example, "Customer ID" is a good hash key, while "Game ID" would be a bad choice if most of your traffic relates to a few popular games.
Learn more about choosing your primary key
Cancel
Continue
Help


Create Table
Cancel
PRIMARY KEY
ADD INDEXES (optional)
PROVISIONED THROUGHPUT CAPACITY
THROUGHPUT ALARMS (optional)
SUMMARY
Add Indexes (optional)
An index is a data structure that maintains an alternate hash and range key. You can use it to Query an item the same way you use the table hash and range key.
Index Type:*
Global Secondary Index
Index Hash Key:*
String
Number
Binary
name
Index Range Key:
String
Number
Binary
mnfr
Index Name:*
name-manufacturer-index
Projected Attributes:*
All Attributes
Add Index To Table
Table Indexes
Index Type
Index Hash Key
Index Range Key
Index Name
Projected Attributes
No Indexes exist. Enter values and click 'Add Index To Table' to create one.


Create Table
Cancel
PRIMARY KEY
ADD INDEXES (optional)
PROVISIONED THROUGHPUT CAPACITY
THROUGHPUT ALARMS (optional)
SUMMARY
Provisioned Throughput Capacity:
Help me calculate how much throughput capacity I need to provision
Throughput capacity to provision:
Amazon DynamoDB lets you specify how much read and write throughput capacity you wish to provision for your table. Using this information, Amazon will provision the appropriate resources to meet your throughput needs. More Information
Read Capacity Units: 5
Write Capacity Units: 5
Throughput Capacity Allocation
Throughput capacity must be allocated for the table and each global secondary index. We have automatically divided up the total table capacity, please adjust as appropriate. These values can be updated later based on actual usage. More Information
Index / Table | Read Capacity Units | Write Capacity Units
product (Table) | 3 | 3
name-manufacturer-index | 2 | 2
Throughput capacity for this table will cost up to $2.91 per month if you have exceeded the free tier.
*Taxes may apply.
If you exceed the free tier you are charged for the provisioned throughput capacity of your table even if you do not actively use your provisioned capacity. Learn more about DynamoDB's free tier and pricing.


https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#table:name=product
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Amazon DynamoDB Tables
Filter:
Explore Table
Create Table
Create Index
Modify Throughput
Delete Table
Export / Import
Access Control
1 to 1 of 1 items
Name | Status | Hash Key | Range Key | Sum of Read Throughput | Sum of Write Throughput
product | ACTIVE | id | type | 5 | 5
product
Details
Indexes
Monitoring
Alarm Setup
CloudWatch Alarms: No alarms configured
Create Alarm
Alarm History (past 24 hours): No alarms triggered
Time Range: Last Hour
Below are your CloudWatch metrics for the selected resources. Click on a graph to see an expanded view.
View all CloudWatch metrics
Read Capacity Units/Second - 5 Minute Average
Throttled Read Requests Count
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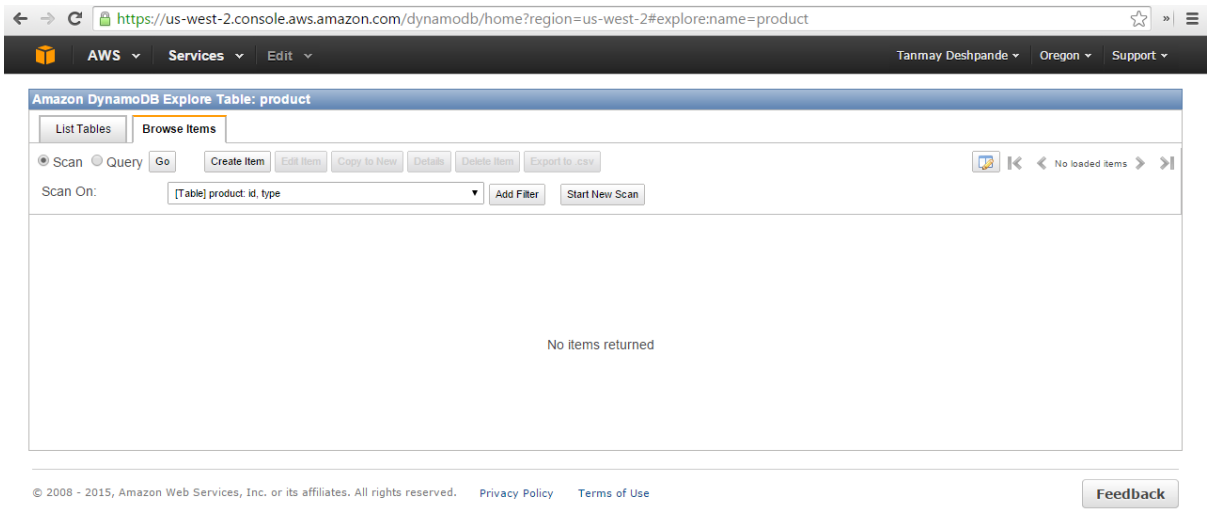
javascript:void(0);


https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#explore:name=product
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Services
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Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
No loaded items
Scan On:
[Table] product: id, type
Add Filter
Start New Scan
No items returned
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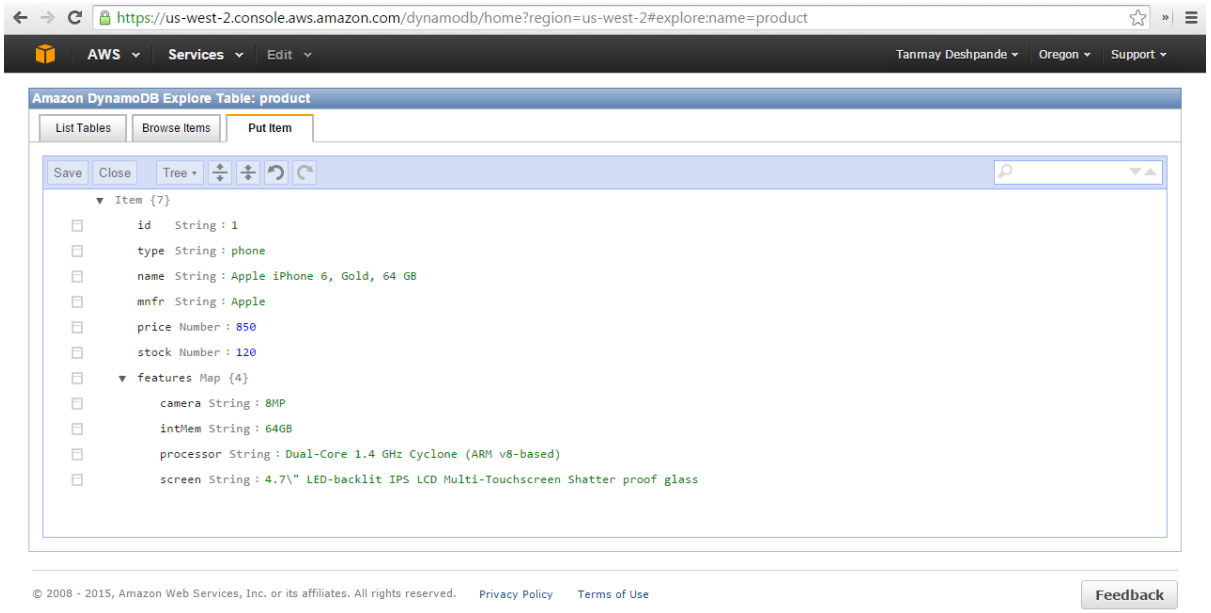
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#explore:name=product
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Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Put Item
Save
Close
Tree
Item {7}
id String : 1
type String : phone
name String : Apple iPhone 6, Gold, 64 GB
mnfr String : Apple
price Number : 850
stock Number : 120
features Map {4}
camera String : 8MP
intMem String : 64GB
processor String : Dual-Core 1.4 GHz Cyclone (ARM v8-based)
screen String : 4.7\" LED-backlit IPS LCD Multi-Touchscreen Shatter proof glass
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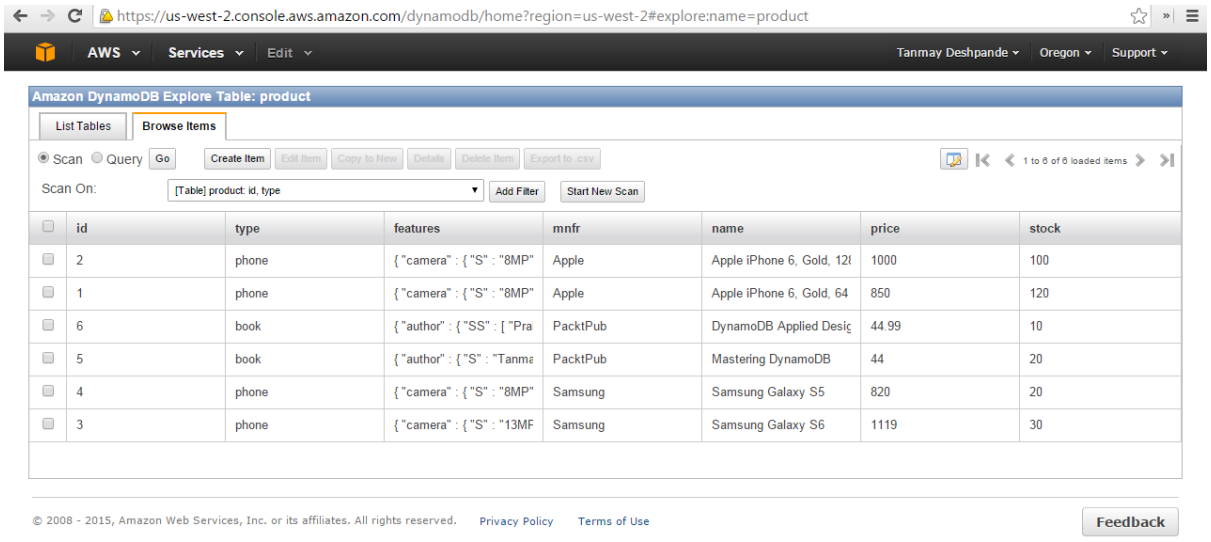
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#explore:name=product
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Support
Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 6 of 6 loaded items
Scan On:
[Table] product: id, type
Add Filter
Start New Scan
id
type
features
mnfr
name
price
stock
2 phone { "camera" : { "S" : "8MP" Apple Apple iPhone 6, Gold, 12(1000 100
1 phone { "camera" : { "S" : "8MP" Apple Apple iPhone 6, Gold, 64 850 120
6 book { "author" : { "SS" : ["Pra PacktPub DynamoDB Applied Desig 44.99 10
5 book { "author" : { "S" : "Tanma PacktPub Mastering DynamoDB 44 20
4 phone { "camera" : { "S" : "8MP" Samsung Samsung Galaxy S5 820 20
3 phone { "camera" : { "S" : "13MF Samsung Samsung Galaxy S6 1119 30
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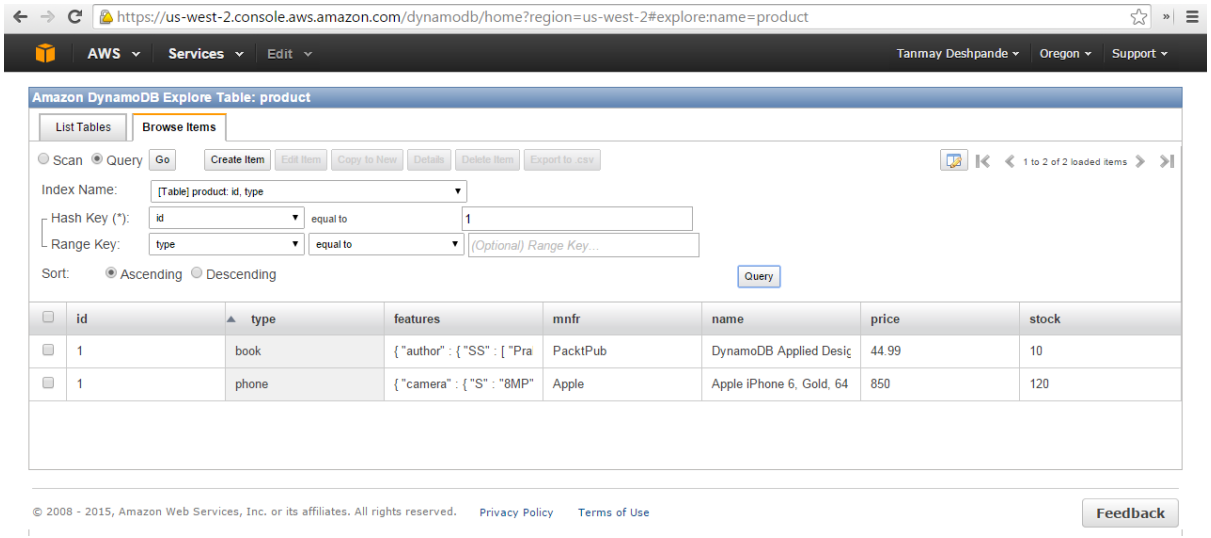
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#explore:name=product
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Support
Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 2 of 2 loaded items
Index Name:
[Table] product: id, type
Hash Key (*):
id
equal to
1
Range Key:
type
equal to
(Optional) Range Key...
Sort:
Ascending
Descending
Query
id
type
features
mnfr
name
price
stock
1
book
{ "author" : { "SS" : ["Pra
PacktPub
DynamoDB Applied Desig
44.99
10
1
phone
{ "camera" : { "S" : "8MP"
Apple
Apple iPhone 6, Gold, 64
850
120
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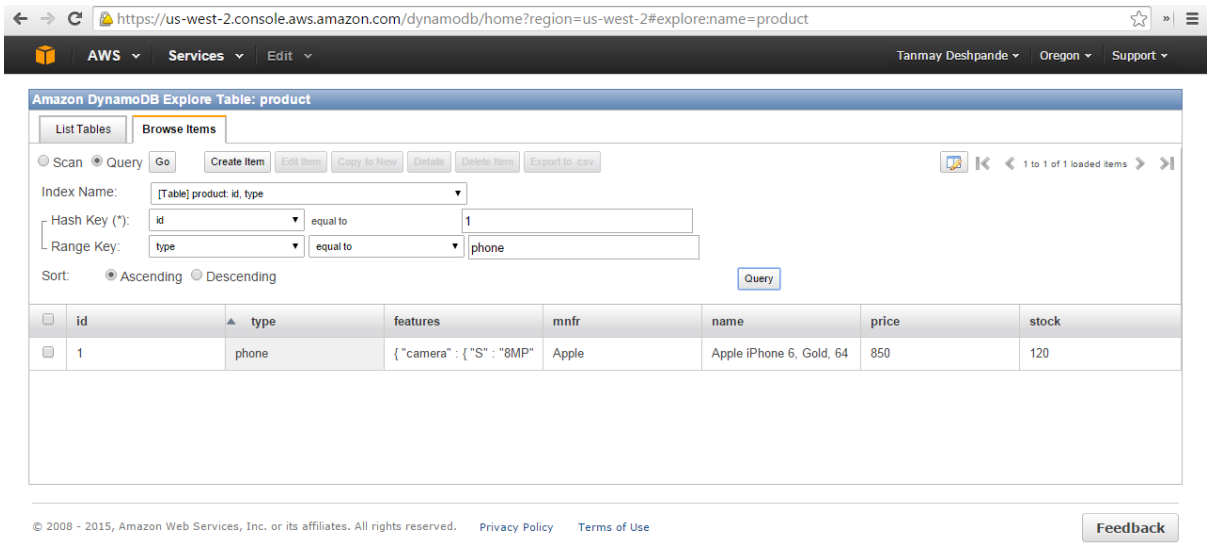
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Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 1 of 1 loaded items
Index Name:
[Table] product: id, type
Hash Key (*):
id
equal to
1
Range Key:
type
equal to
phone
Sort:
Ascending
Descending
Query
id
type
features
mnfr
name
price
stock
1
phone
{ "camera" : { "S" : "8MP"
Apple
Apple iPhone 6, Gold, 64
850
120
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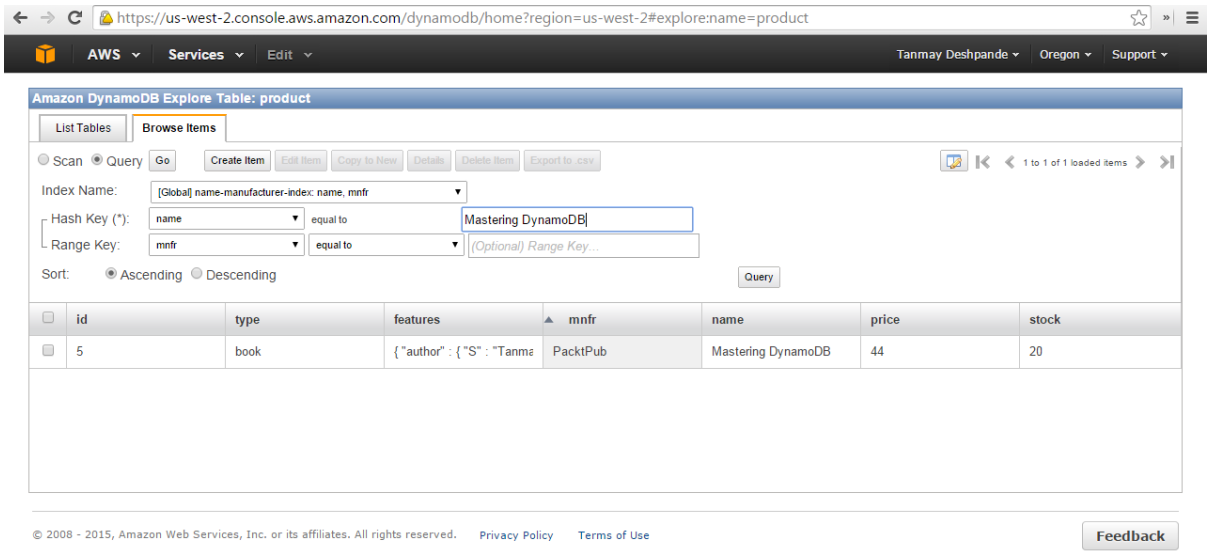
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#explore:name=product
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Support
Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 1 of 1 loaded items
Index Name:
[Global] name-manufacturer-index: name, mnfr
Hash Key (*):
name
equal to
Mastering DynamoDB
Range Key:
mnfr
equal to
(Optional) Range Key...
Sort:
Ascending
Descending
Query
id
type
features
mnfr
name
price
stock
5
book
{ "author" : { "S" : "Tanma
PacktPub
Mastering DynamoDB
44
20
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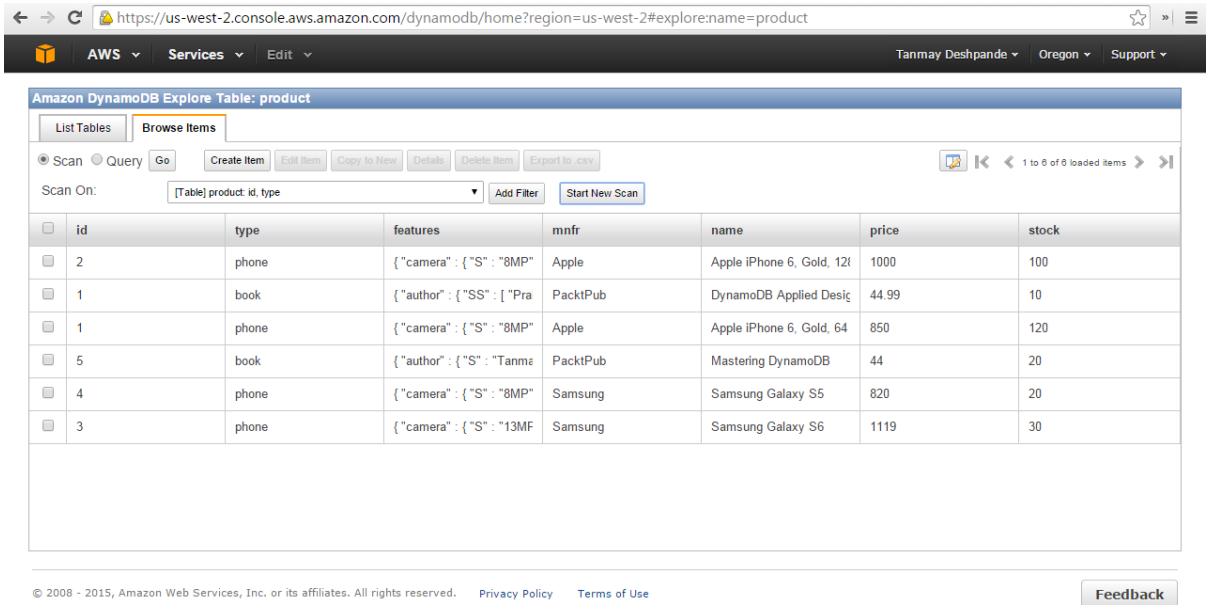
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Services
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Support
Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 6 of 6 loaded items
Scan On:
[Table] product: id, type
Add Filter
Start New Scan
id
type
features
mnfr
name
price
stock
2 phone { "camera" : { "S" : "8MP" Apple Apple iPhone 6, Gold, 12 1000 100
1 book { "author" : { "SS" : ["Pra PacktPub DynamoDB Applied Desig 44.99 10
1 phone { "camera" : { "S" : "8MP" Apple Apple iPhone 6, Gold, 64 850 120
5 book { "author" : { "S" : "Tanma PacktPub Mastering DynamoDB 44 20
4 phone { "camera" : { "S" : "8MP" Samsung Samsung Galaxy S5 820 20
3 phone { "camera" : { "S" : "13MF Samsung Samsung Galaxy S6 1119 30
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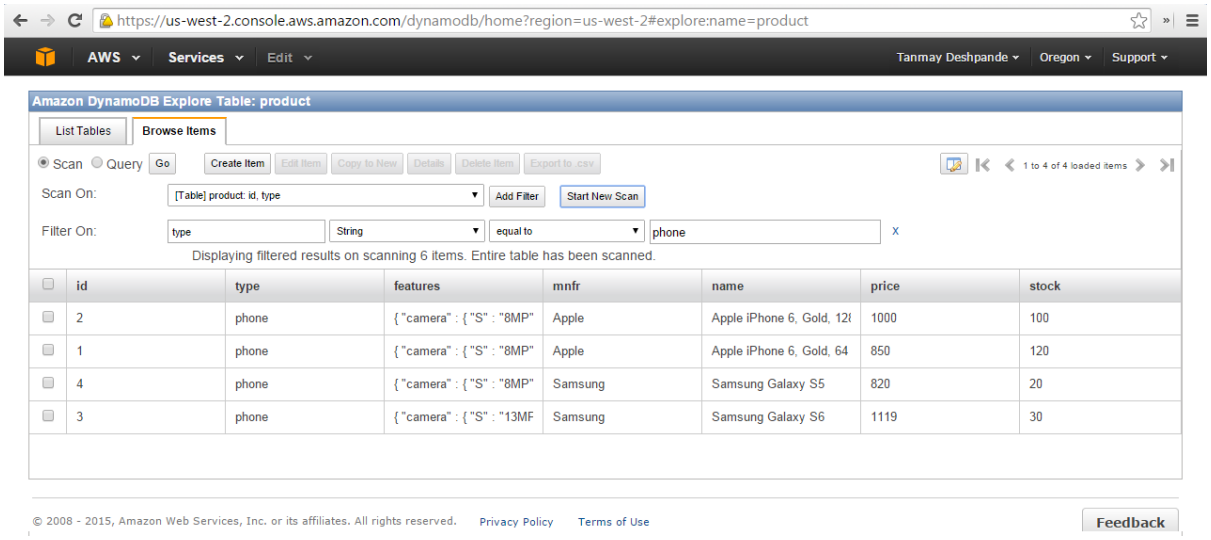
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Services
Edit
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Oregon
Support
Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 4 of 4 loaded items
Scan On:
[Table] product: id, type
Add Filter
Start New Scan
Filter On:
type
String
equal to
phone
x
Displaying filtered results on scanning 6 items. Entire table has been scanned.
id
type
features
mnfr
name
price
stock
2 phone { "camera" : { "S" : "8MP" Apple Apple iPhone 6, Gold, 12 1000 100
1 phone { "camera" : { "S" : "8MP" Apple Apple iPhone 6, Gold, 64 850 120
4 phone { "camera" : { "S" : "8MP" Samsung Samsung Galaxy S5 820 20
3 phone { "camera" : { "S" : "13MF Samsung Samsung Galaxy S6 1119 30
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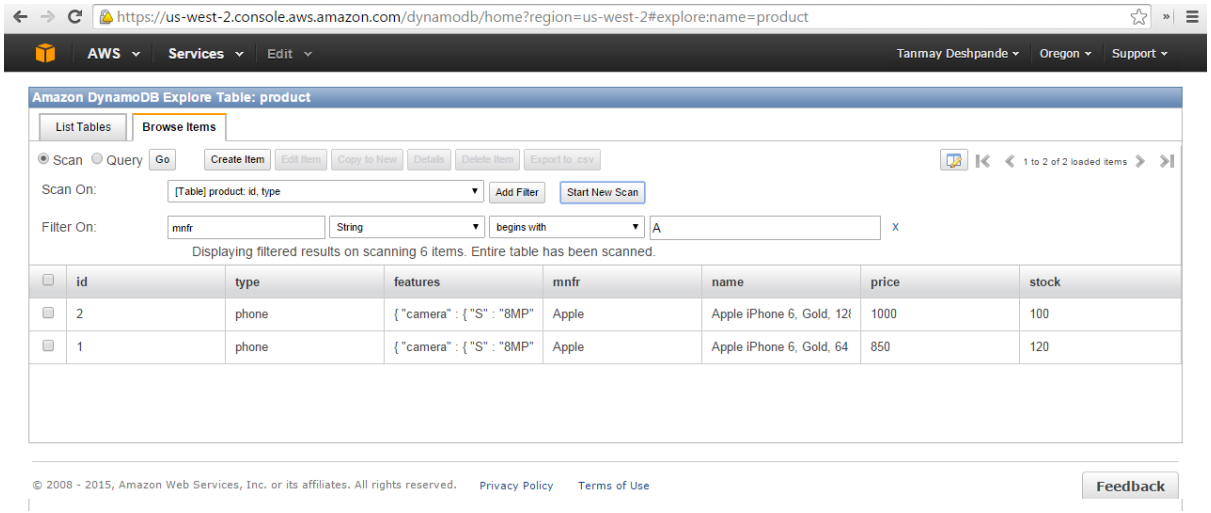
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#explore:name=product
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Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon DynamoDB Explore Table: product
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 2 of 2 loaded items
Scan On:
[Table] product: id, type
Add Filter
Start New Scan
Filter On:
mnfr
String
begins with
A
Displaying filtered results on scanning 6 items. Entire table has been scanned.
id
type
features
mnfr
name
price
stock
2
phone
{ "camera" : { "S" : "8MP"
Apple
Apple iPhone 6, Gold, 12
1000
100
1
phone
{ "camera" : { "S" : "8MP"
Apple
Apple iPhone 6, Gold, 64
850
120
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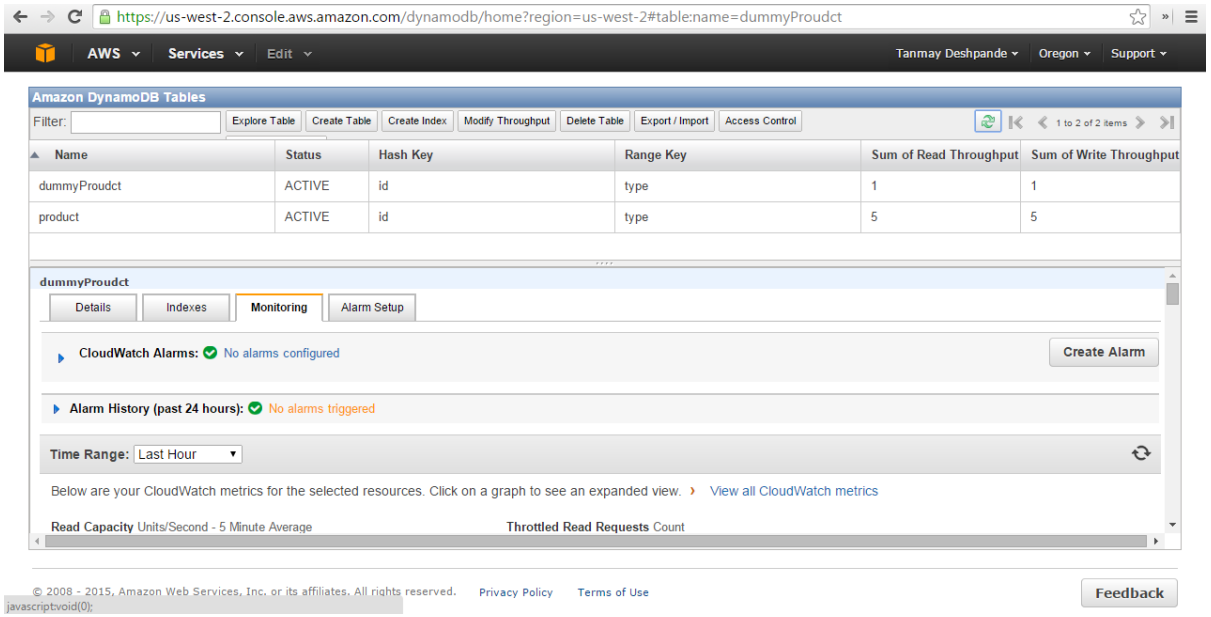
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#table:name=dummyProudct
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Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon DynamoDB Tables
Filter:
Explore Table
Create Table
Create Index
Modify Throughput
Delete Table
Export / Import
Access Control
1 to 2 of 2 items
Name
Status
Hash Key
Range Key
Sum of Read Throughput
Sum of Write Throughput
dummyProudct
ACTIVE
id
type
1
1
product
ACTIVE
id
type
5
5
dummyProudct
Details
Indexes
Monitoring
Alarm Setup
CloudWatch Alarms:
No alarms configured
Create Alarm
Alarm History (past 24 hours):
No alarms triggered
Time Range:
Last Hour
Below are your CloudWatch metrics for the selected resources. Click on a graph to see an expanded view.
View all CloudWatch metrics
Read Capacity Units/Second - 5 Minute Average
Throttled Read Requests Count
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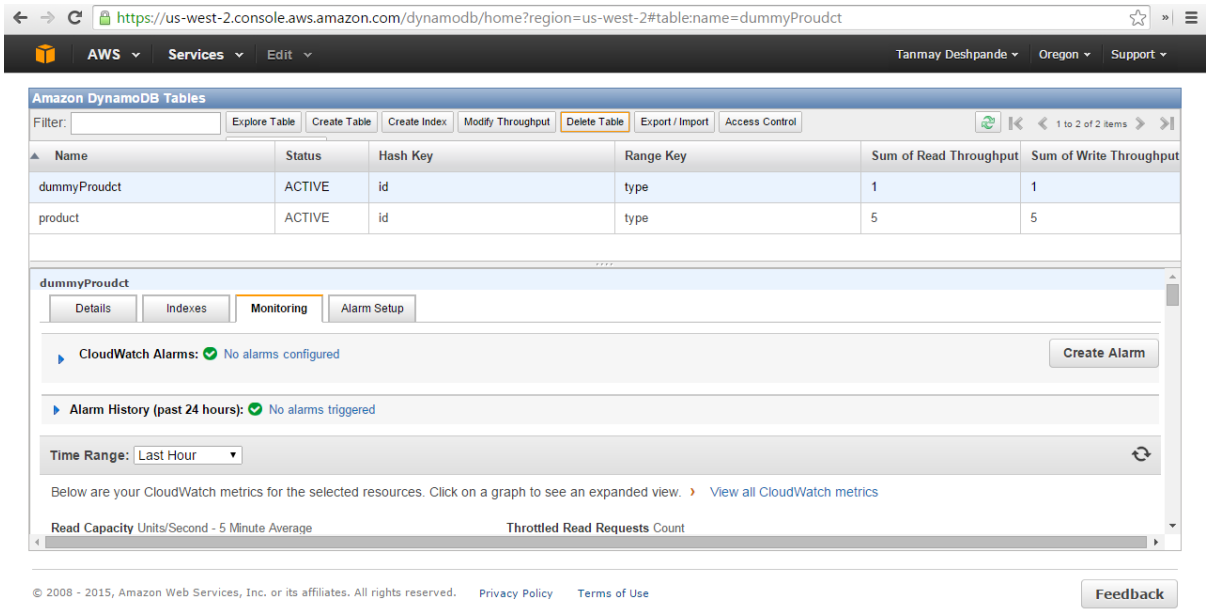
https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#table:name=dummyProudct
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Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon DynamoDB Tables
Filter:
Explore Table
Create Table
Create Index
Modify Throughput
Delete Table
Export / Import
Access Control
1 to 2 of 2 items
Name
Status
Hash Key
Range Key
Sum of Read Throughput
Sum of Write Throughput
dummyProudct
ACTIVE
id
type
1
1
product
ACTIVE
id
type
5
5
dummyProudct
Details
Indexes
Monitoring
Alarm Setup
CloudWatch Alarms: No alarms configured
Create Alarm
Alarm History (past 24 hours): No alarms triggered
Time Range: Last Hour
Below are your CloudWatch metrics for the selected resources. Click on a graph to see an expanded view.
View all CloudWatch metrics
Read Capacity Units/Second - 5 Minute Average
Throttled Read Requests Count
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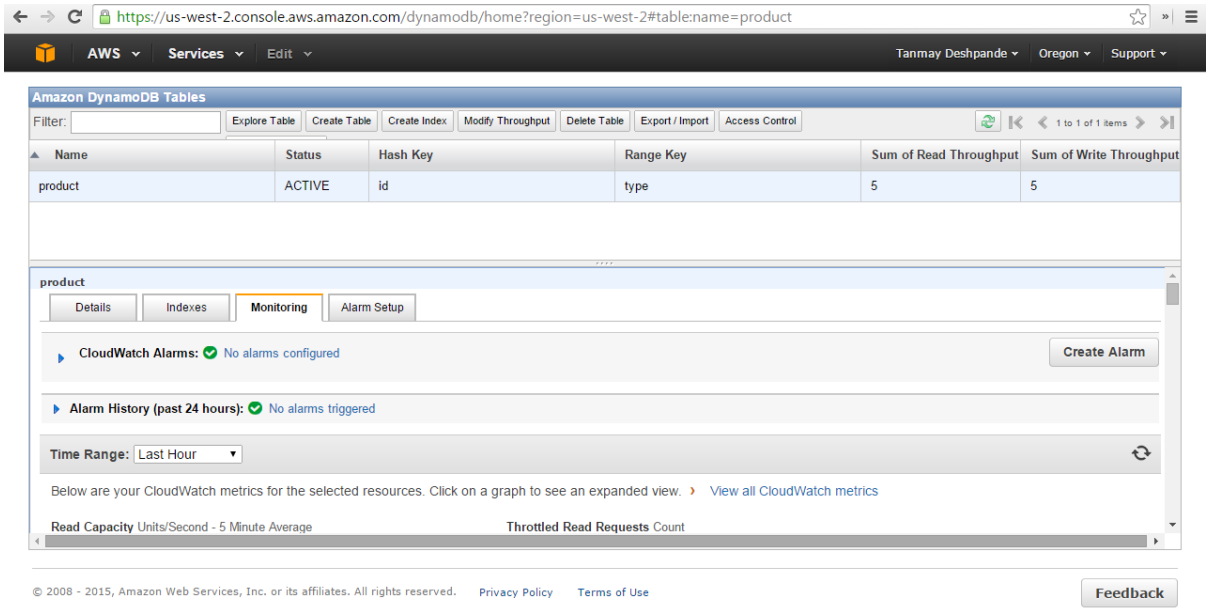
Feedback


Delete Table?
Cancel
Delete confirmation for: dummyProudct
Warning: Deleting dummyProudct will permanently erase all data stored in the table.
Delete this table
Delete all CloudWatch alarms for this table
Delete all export/import pipelines for this table
Cancel
Delete


https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#table:name=product
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon DynamoDB Tables
Filter:
Explore Table
Create Table
Create Index
Modify Throughput
Delete Table
Export / Import
Access Control
1 to 1 of 1 items
Name
Status
Hash Key
Range Key
Sum of Read Throughput
Sum of Write Throughput
product
ACTIVE
id
type
5
5
product
Details
Indexes
Monitoring
Alarm Setup
CloudWatch Alarms: No alarms configured
Create Alarm
Alarm History (past 24 hours): No alarms triggered
Time Range: Last Hour
Below are your CloudWatch metrics for the selected resources. Click on a graph to see an expanded view.
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Read Capacity Units/Second - 5 Minute Average
Throttled Read Requests Count
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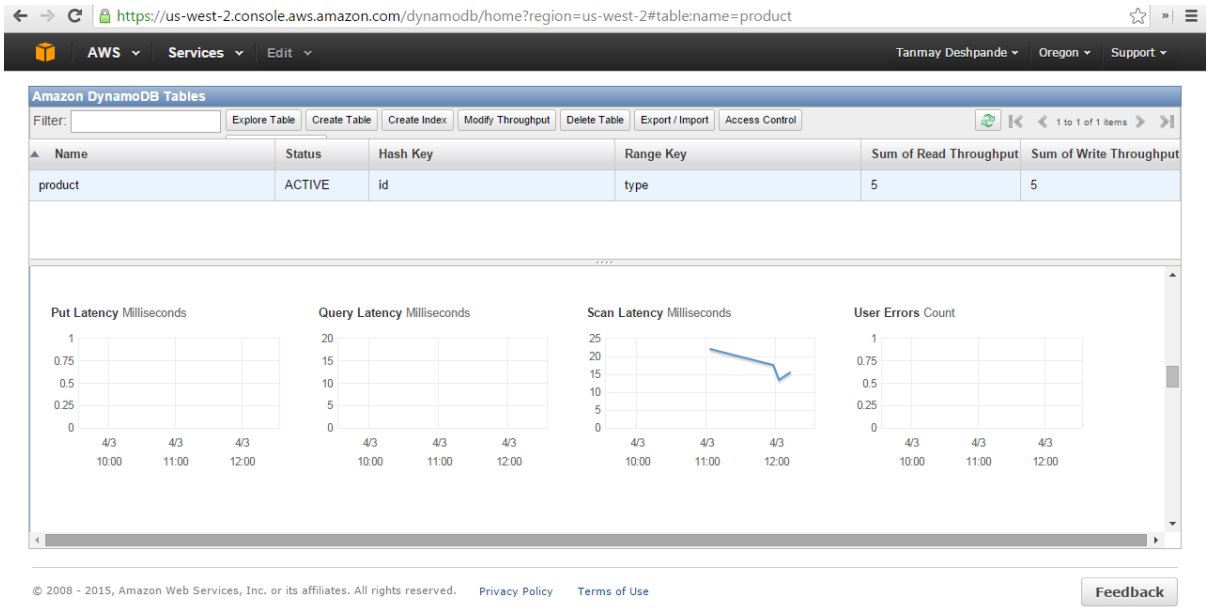
Feedback


https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#table:name=product
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon DynamoDB Tables
Filter:
Explore Table
Create Table
Create Index
Modify Throughput
Delete Table
Export / Import
Access Control
1 to 1 of 1 items
Name
Status
Hash Key
Range Key
Sum of Read Throughput
Sum of Write Throughput
product
ACTIVE
id
type
5
5
Put Latency Milliseconds
Query Latency Milliseconds
Scan Latency Milliseconds
User Errors Count
4/3 10:00
4/3 11:00
4/3 12:00
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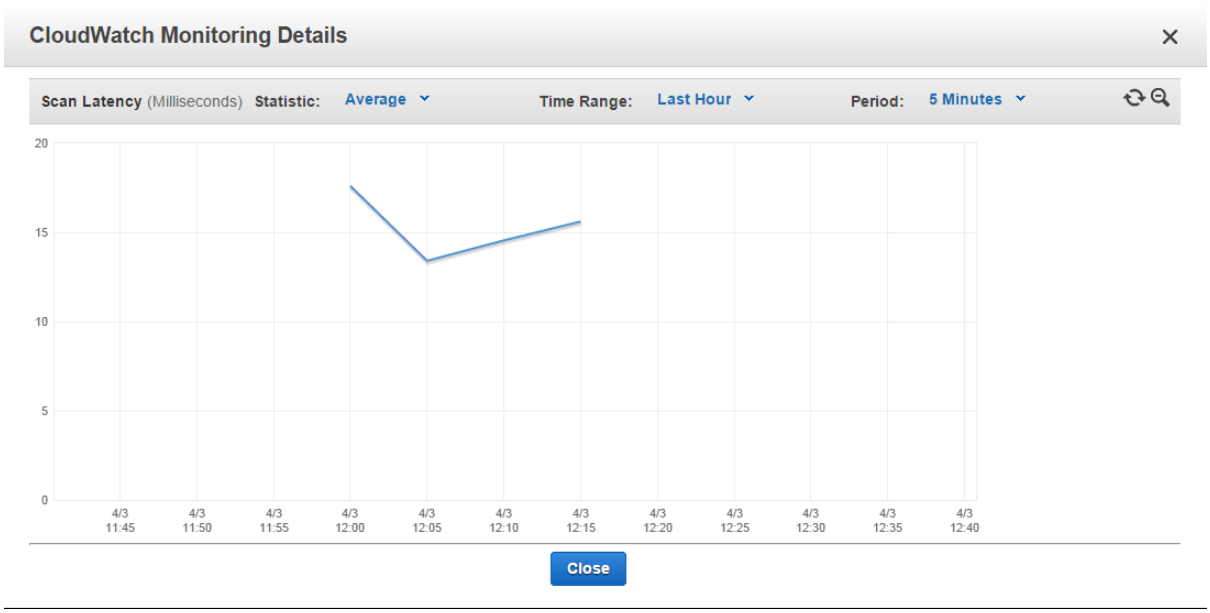
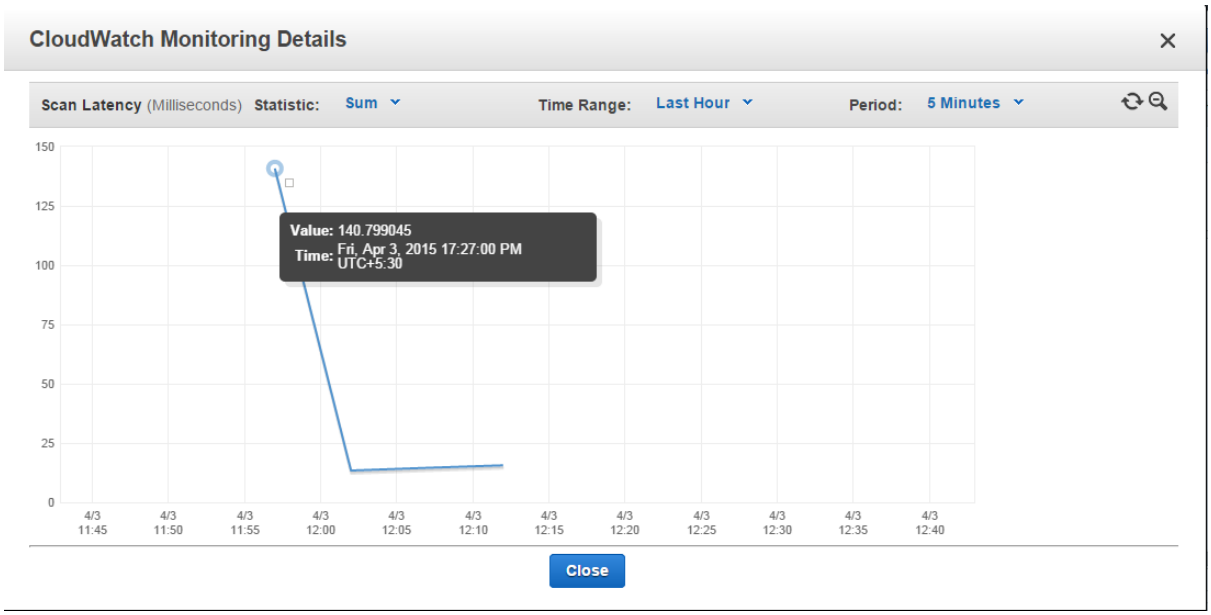
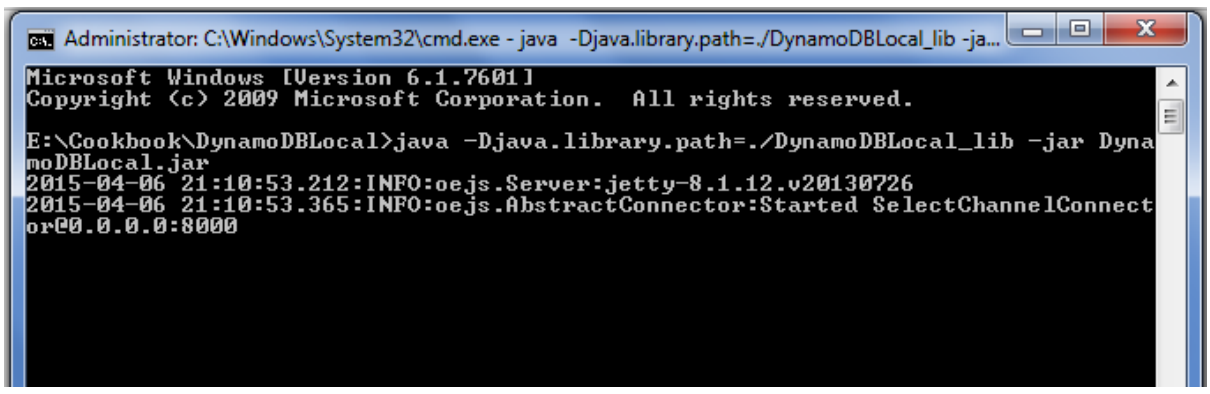
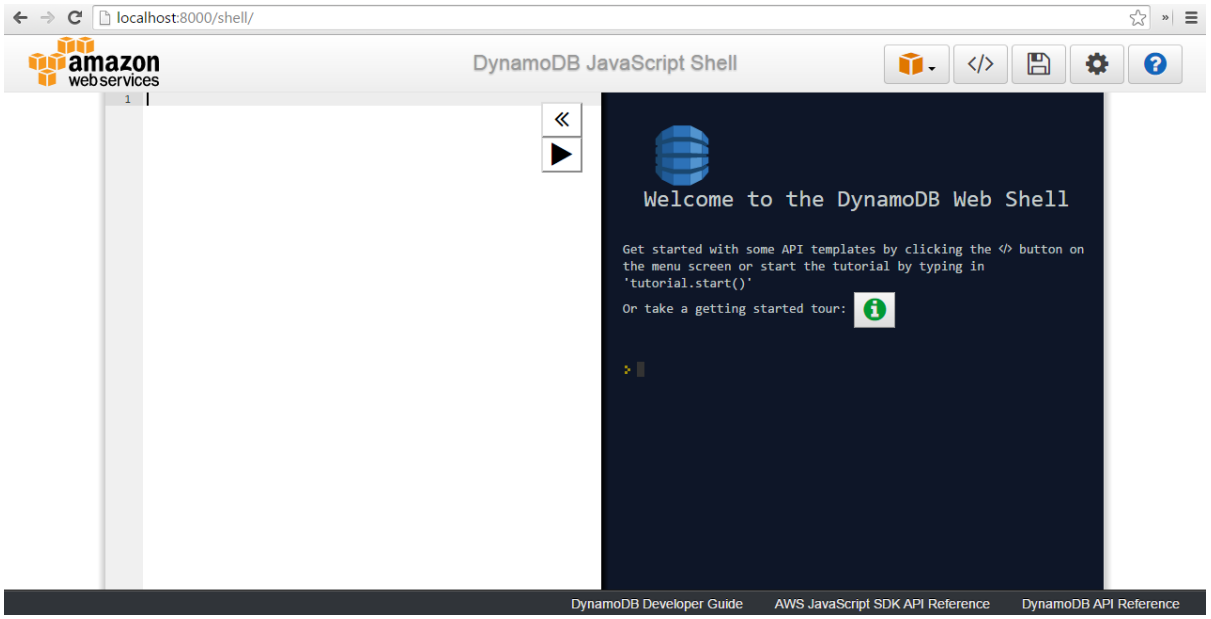
Feedback


CloudWatch Monitoring Details
Scan Latency (Milliseconds) Statistic: Average Time Range: Last Hour Period: 5 Minutes
20
15
10
5
0
4/3 11:45
4/3 11:50
4/3 11:55
4/3 12:00
4/3 12:05
4/3 12:10
4/3 12:15
4/3 12:20
4/3 12:25
4/3 12:30
4/3 12:35
4/3 12:40
Close


CloudWatch Monitoring Details
Scan Latency (Milliseconds) Statistic: Sum Time Range: Last Hour Period: 5 Minutes
150
125
100
75
50
25
0
Value: 140.799045
Time: Fri, Apr 3, 2015 17:27:00 PM UTC+5:30
4/3 11:45
4/3 11:50
4/3 11:55
4/3 12:00
4/3 12:05
4/3 12:10
4/3 12:15
4/3 12:20
4/3 12:25
4/3 12:30
4/3 12:35
4/3 12:40
Close

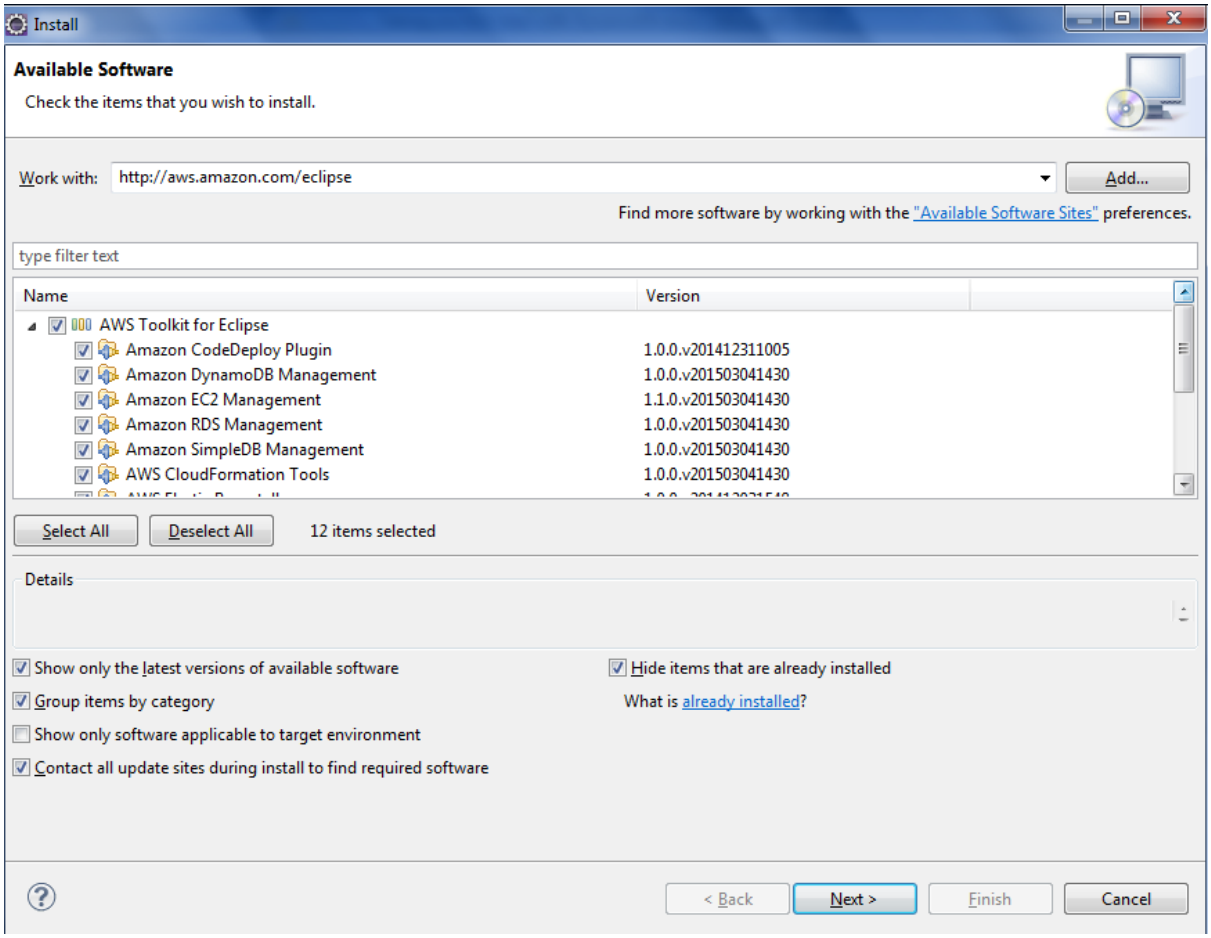

Administrator: C:\Windows\System32\cmd.exe - java -Djava.library.path=./DynamoDBLocal_lib -ja...
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
E:\Cookbook\DynamoDBLocal>java -Djava.library.path=./DynamoDBLocal_lib -jar DynamoDBLocal.jar
2015-04-06 21:10:53.212:INFO:oejs.Server:jetty-8.1.12.v20130726
2015-04-06 21:10:53.365:INFO:oejs.AbstractConnector:Started SelectChannelConnector@0.0.0.0:8000

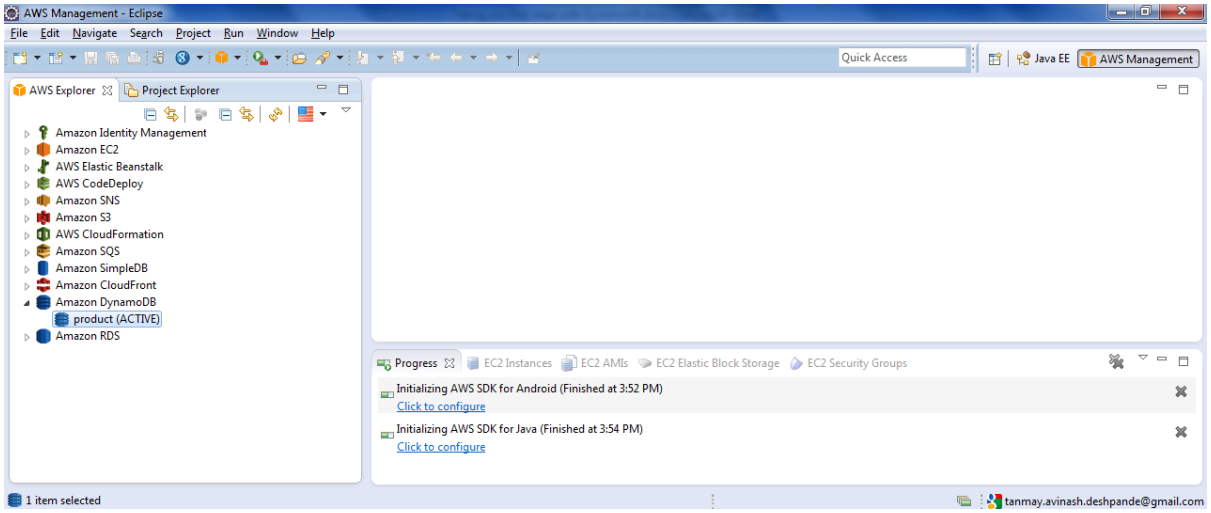
```
Administrator: C:\Windows\System32\cmd.exe
or@0.0.0.0:8000

E:\Cookbook\DynamoDBLocal>java -Djava.library.path=./DynamoDBLocal_lib -jar Dyna
moDBLocal.jar -help
usage: java -Djava.library.path=./DynamoDBLocal_lib -jar DynamoDBLocal.jar
            [-port <port-no.>] [-inMemory] [-delayTransientStatuses]
            [-dbPath <path>][-sharedDb] [-cors <allow-list>]
 -cors <arg>                  Enable CORS support for javascript against a
                              specific allow-list list the domains
                              serporated by , [use '*' for public access]
 -dbPath <path>               Specify the location of your database file.
                              Default is the current directory.
 -delayTransientStatuses      When specified, DynamoDB Local will introduce
                              delays to hold various transient table and
                              index statuses so that it simulates actual
                              service more closely. Currently works only for
                              CREATING and DELETING online index statuses.
 -help                        Display DynamoDB Local usage and options.
 -inMemory                    When specified, DynamoDB Local will run in
                              memory.
 -optimizeDbBeforeStartup     Optimize the underlying backing store database
                              tables before starting up the server
 -port <port-no.>             Specify a port number. Default is 8000
 -sharedDb                    When specified, DynamoDB Local will use a
                              single database instead of separate databases
                              for each credential and region. As a result,
                              all clients will interact with the same set of
                              tables, regardless of their region and
                              credential configuration.
Error processing the supplied command line arguments
E:\Cookbook\DynamoDBLocal>
```

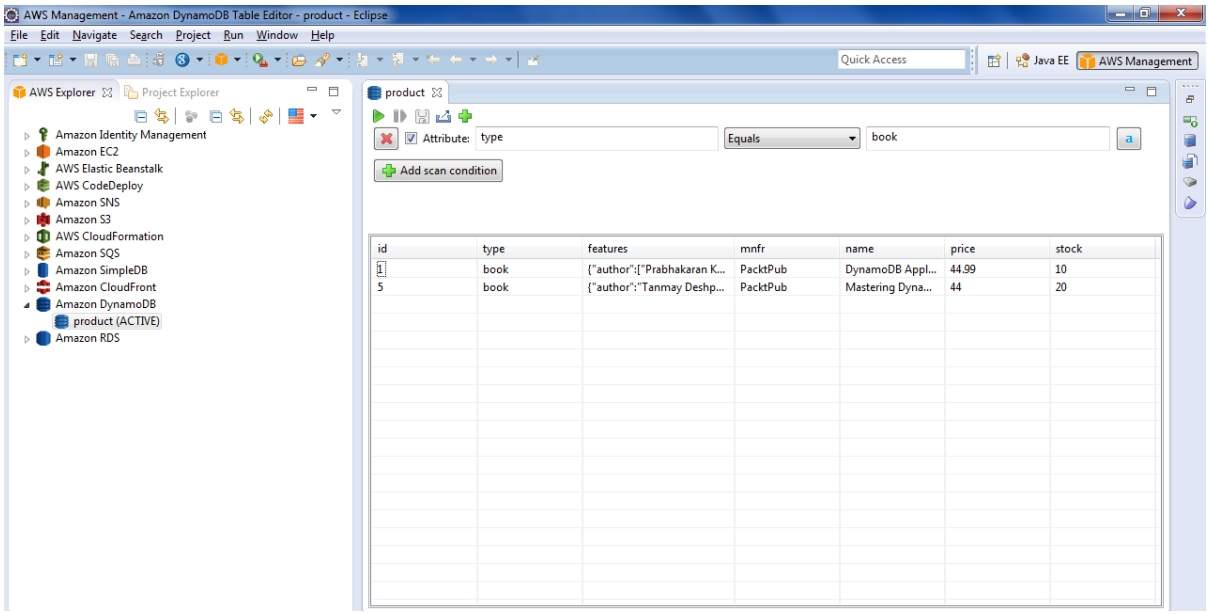



```
C:\Users\TDeshpande>aws dynamodb list-tables
{
    "TableNames": [
        "product"
    ]
}

C:\Users\TDeshpande>_
```

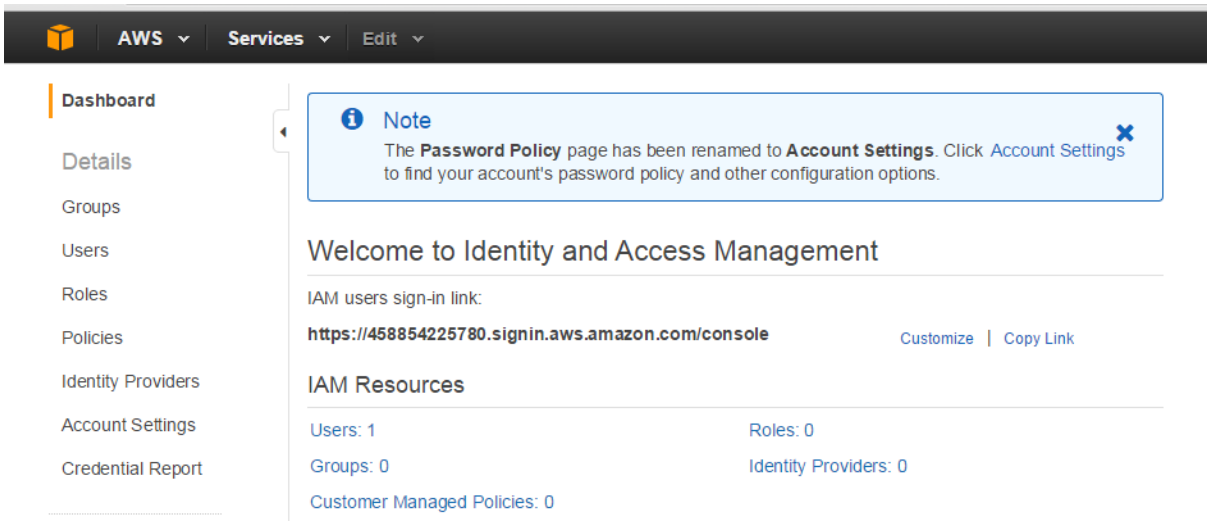
```
C:\Users\TDeshpande>aws dynamodb query --table-name product --key-conditions fil
e://conditions.json
{
    "Count": 1,
    "Items": [
        {
            "mnfr": {
                "S": "PacktPub"
            },
            "features": {
                "M": {
                    "paperback": {
                        "S": "230 Pages"
                    },
                    "ISBN": {
                        "S": "978-1783551958"
                    },
                    "dimensions": {
                        "S": "7.5 x 0.5 x 9.2 inches"
                    },
                    "author": {
                        "S": "Tanmay Deshpande"
                    }
                }
            },
            "price": {
                "N": "44"
            },
            "name": {
                "S": "Mastering DynamoDB"
            },
            "type": {
                "S": "book"
            },
            "id": {
                "S": "5"
            },
            "stock": {
                "N": "20"
            }
        }
    ],
    "ScannedCount": 1,
    "ConsumedCapacity": null
}
```

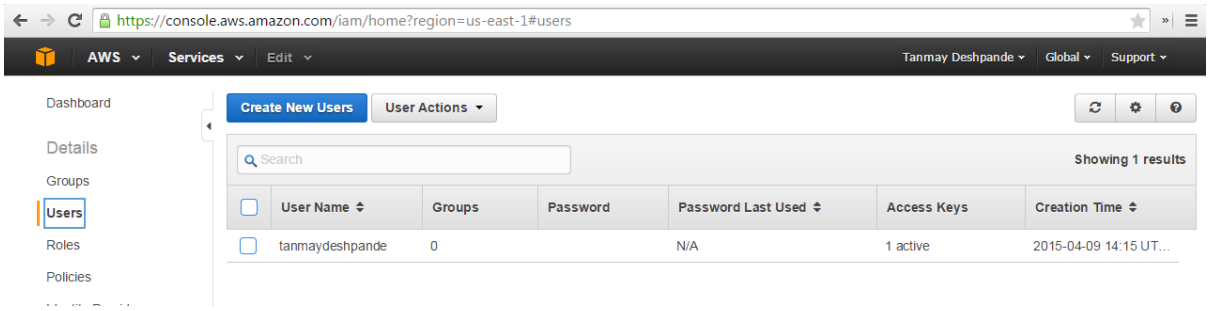

Install
Available Software
Check the items that you wish to install.
Work with:
http://aws.amazon.com/eclipse
Add...
Find more software by working with the "Available Software Sites" preferences.
type filter text
Name
Version
AWS Toolkit for Eclipse
Amazon CodeDeploy Plugin 1.0.0.v201412311005
Amazon DynamoDB Management 1.0.0.v201503041430
Amazon EC2 Management 1.1.0.v201503041430
Amazon RDS Management 1.0.0.v201503041430
Amazon SimpleDB Management 1.0.0.v201503041430
AWS CloudFormation Tools 1.0.0.v201503041430
Select All
Deselect All
12 items selected
Details
Show only the latest versions of available software
Hide items that are already installed
Group items by category
What is already installed?
Show only software applicable to target environment
Contact all update sites during install to find required software
< Back
Next >
Finish
Cancel

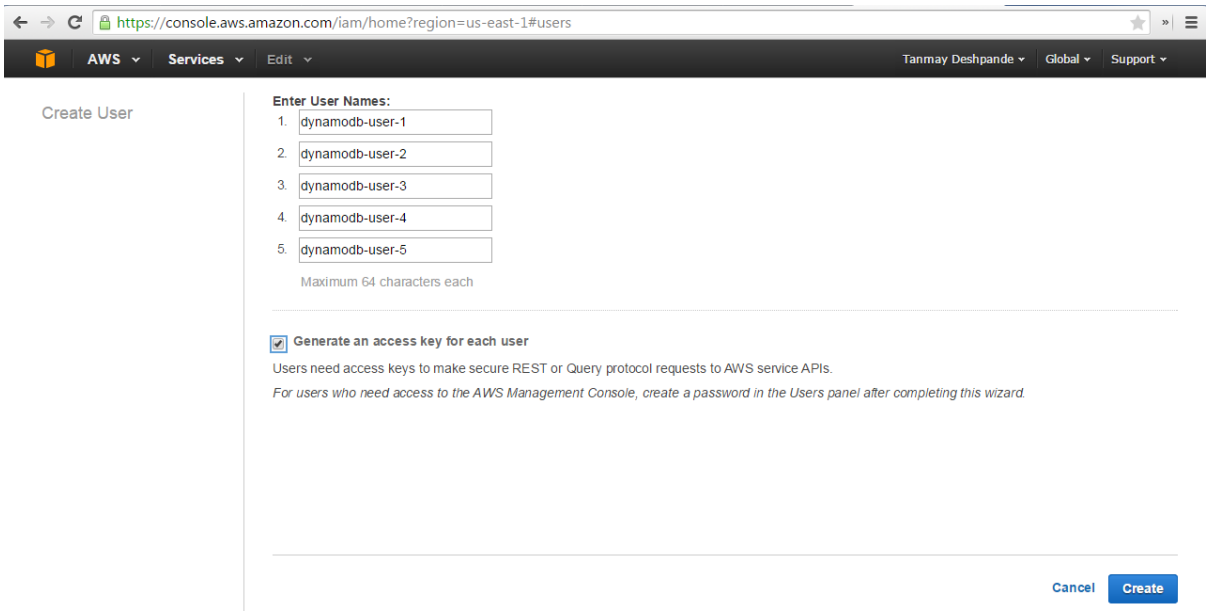

AWS Management - Eclipse
File Edit Navigate Search Project Run Window Help
Quick Access
Java EE
AWS Management
AWS Explorer
Project Explorer
Amazon Identity Management
Amazon EC2
AWS Elastic Beanstalk
AWS CodeDeploy
Amazon SNS
Amazon S3
AWS CloudFormation
Amazon SQS
Amazon SimpleDB
Amazon CloudFront
Amazon DynamoDB
product (ACTIVE)
Amazon RDS
Progress
EC2 Instances
EC2 AMIs
EC2 Elastic Block Storage
EC2 Security Groups
Initializing AWS SDK for Android (Finished at 3:52 PM)
Click to configure
Initializing AWS SDK for Java (Finished at 3:54 PM)
Click to configure
1 item selected
tanmay.avinash.deshpande@gmail.com

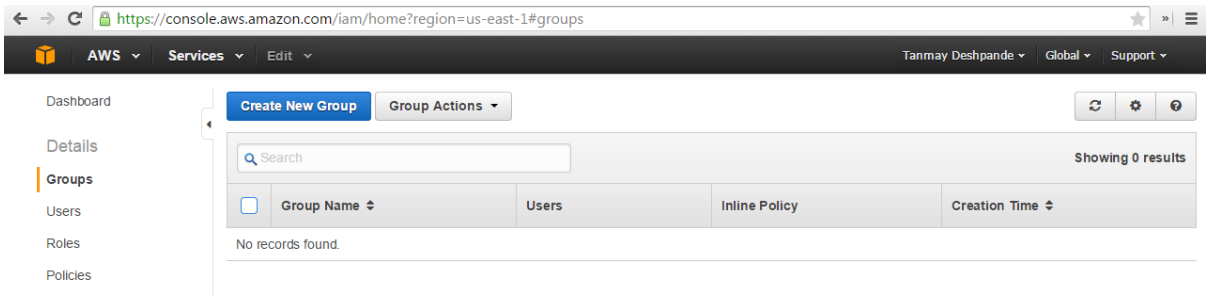

AWS Management - Amazon DynamoDB Table Editor - product - Eclipse
File Edit Navigate Search Project Run Window Help
Quick Access
Java EE
AWS Management
AWS Explorer
Project Explorer
Amazon Identity Management
Amazon EC2
AWS Elastic Beanstalk
AWS CodeDeploy
Amazon SNS
Amazon S3
AWS CloudFormation
Amazon SQS
Amazon SimpleDB
Amazon CloudFront
Amazon DynamoDB
product (ACTIVE)
Amazon RDS
product
Attribute: type
Equals
book
Add scan condition
id type features mnfr name price stock
1 book {"author":["Prabhakaran K... PacktPub DynamoDB Appl... 44.99 10
5 book {"author":"Tanmay Deshp... PacktPub Mastering Dyna... 44 20

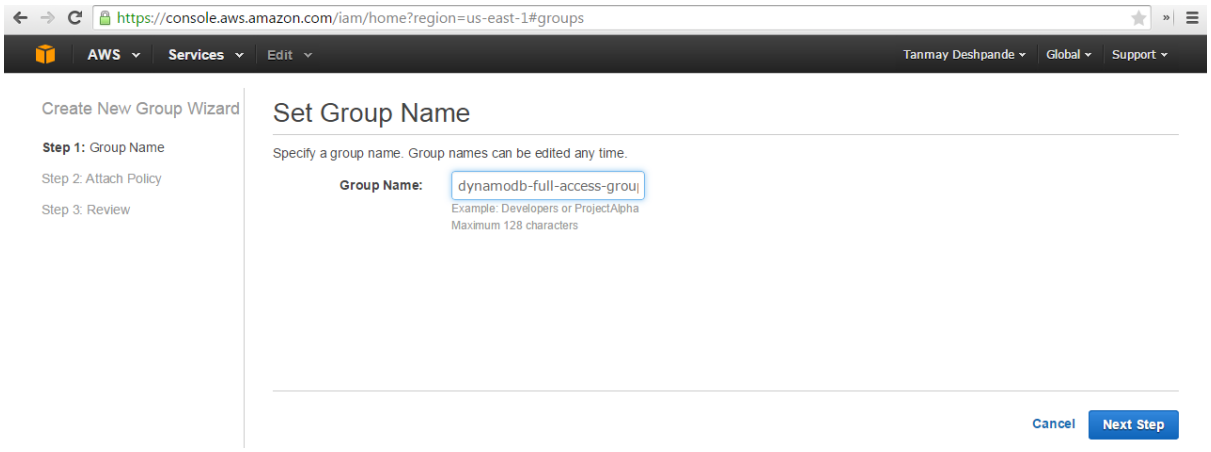
Chapter 6

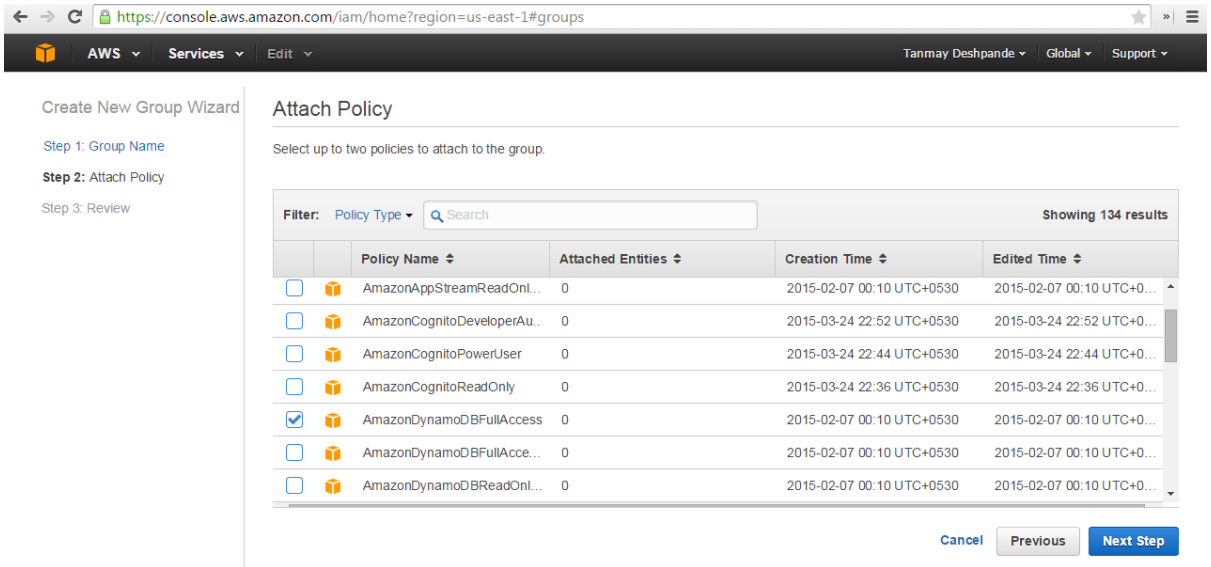

AWS
Services
Edit
Dashboard
Details
Groups
Users
Roles
Policies
Identity Providers
Account Settings
Credential Report
Note
The Password Policy page has been renamed to Account Settings. Click Account Settings to find your account's password policy and other configuration options.
Welcome to Identity and Access Management
IAM users sign-in link:
https://458854225780.signin.aws.amazon.com/console
Customize | Copy Link
IAM Resources
Users: 1
Roles: 0
Groups: 0
Identity Providers: 0
Customer Managed Policies: 0

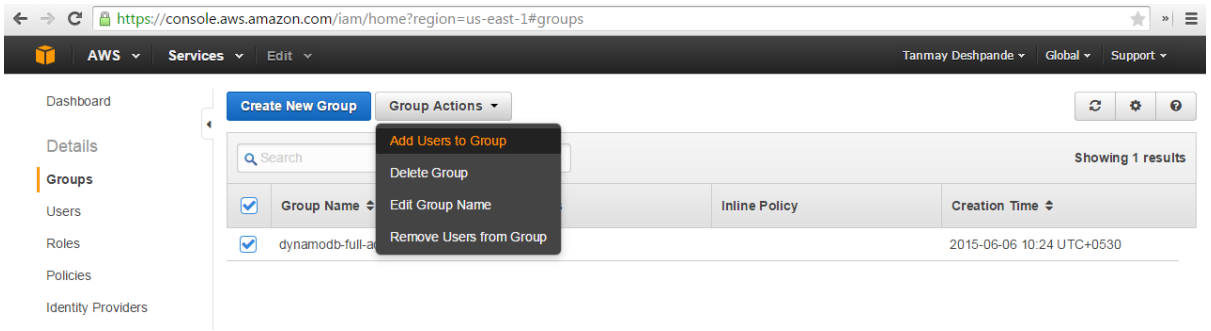

https://console.aws.amazon.com/iam/home?region=us-east-1#users
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Dashboard
Details
Groups
Users
Roles
Policies
Create New Users
User Actions
Search
Showing 1 results
User Name
Groups
Password
Password Last Used
Access Keys
Creation Time
tanmaydeshpande
0
N/A
1 active
2015-04-09 14:15 UT...

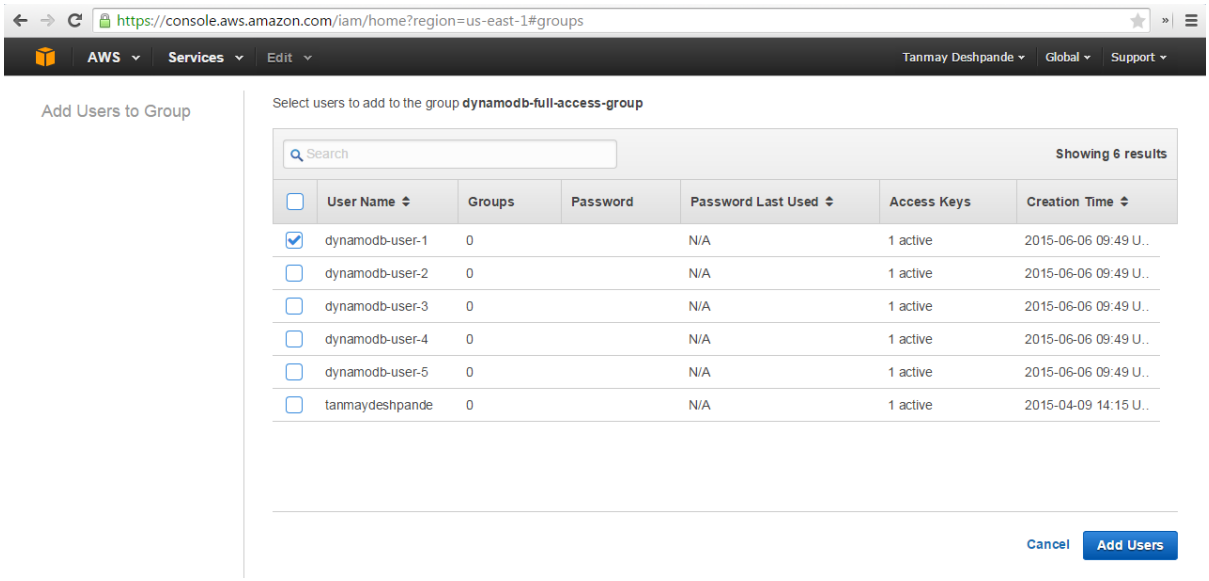

https://console.aws.amazon.com/iam/home?region=us-east-1#users
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create User
Enter User Names:
1. dynamodb-user-1
2. dynamodb-user-2
3. dynamodb-user-3
4. dynamodb-user-4
5. dynamodb-user-5
Maximum 64 characters each
Generate an access key for each user
Users need access keys to make secure REST or Query protocol requests to AWS service APIs.
For users who need access to the AWS Management Console, create a password in the Users panel after completing this wizard.
Cancel
Create

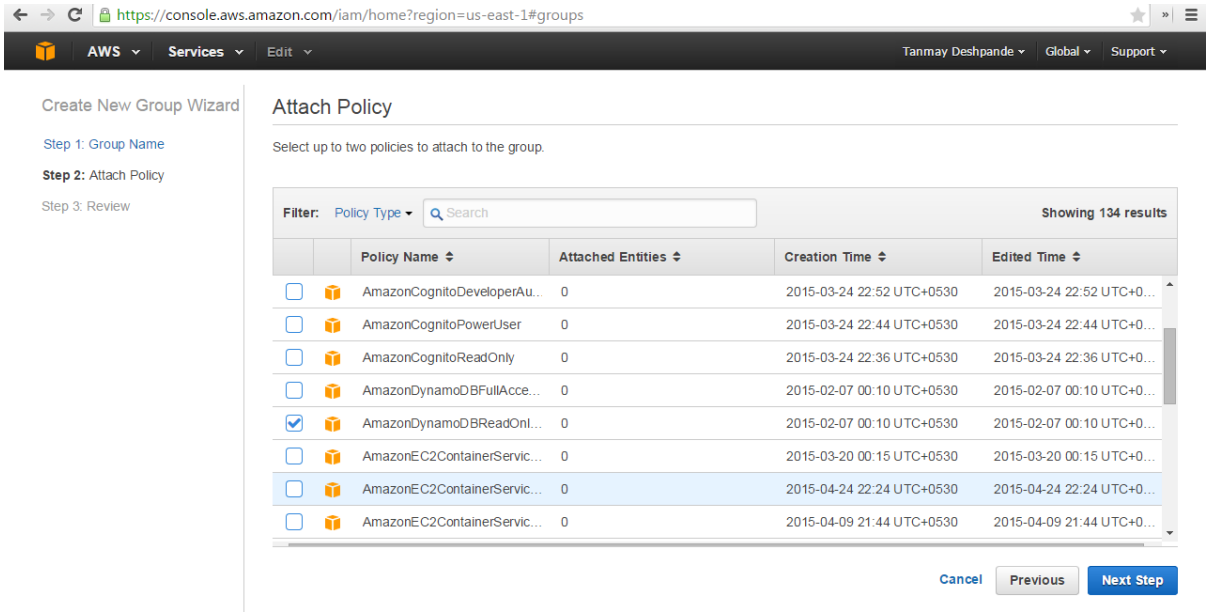

https://console.aws.amazon.com/iam/home?region=us-east-1#groups
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Dashboard
Details
Groups
Users
Roles
Policies
Create New Group
Group Actions
Search
Showing 0 results
Group Name
Users
Inline Policy
Creation Time
No records found.

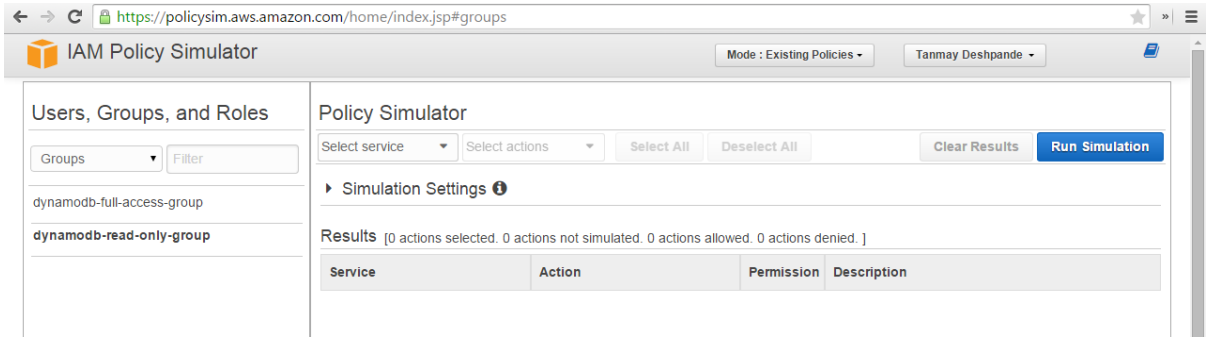

https://console.aws.amazon.com/iam/home?region=us-east-1#groups
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create New Group Wizard
Step 1: Group Name
Step 2: Attach Policy
Step 3: Review
Set Group Name
Specify a group name. Group names can be edited any time.
Group Name:
dynamodb-full-access-grou
Example: Developers or ProjectAlpha
Maximum 128 characters
Cancel
Next Step

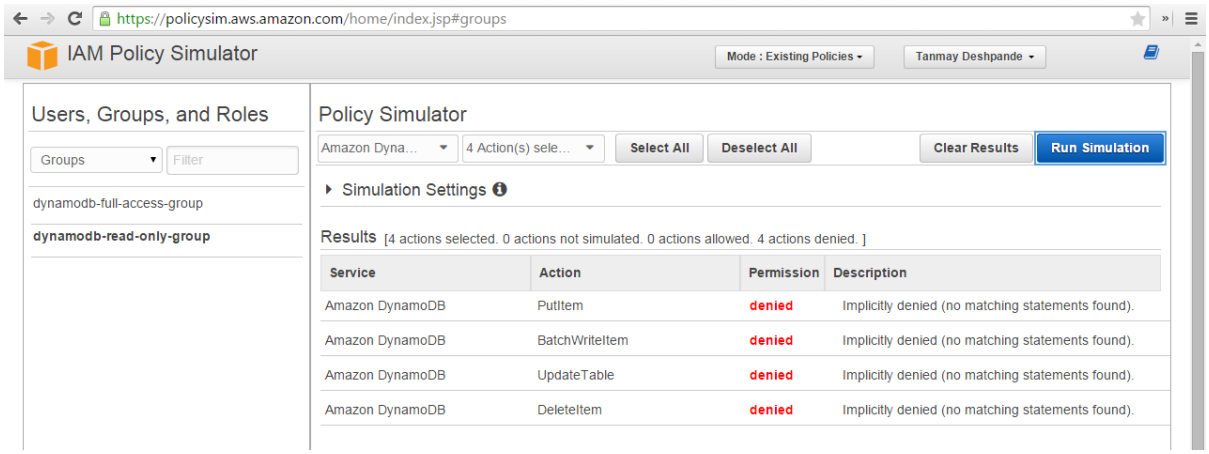

https://console.aws.amazon.com/iam/home?region=us-east-1#groups
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create New Group Wizard
Step 1: Group Name
Step 2: Attach Policy
Step 3: Review
Attach Policy
Select up to two policies to attach to the group.
Filter:
Policy Type
Search
Showing 134 results
Policy Name
Attached Entities
Creation Time
Edited Time
AmazonAppStreamReadOnl...
AmazonCognitoDeveloperAu...
AmazonCognitoPowerUser
AmazonCognitoReadOnly
AmazonDynamoDBFullAccess
AmazonDynamoDBFullAcce...
AmazonDynamoDBReadOnl...
Cancel
Previous
Next Step

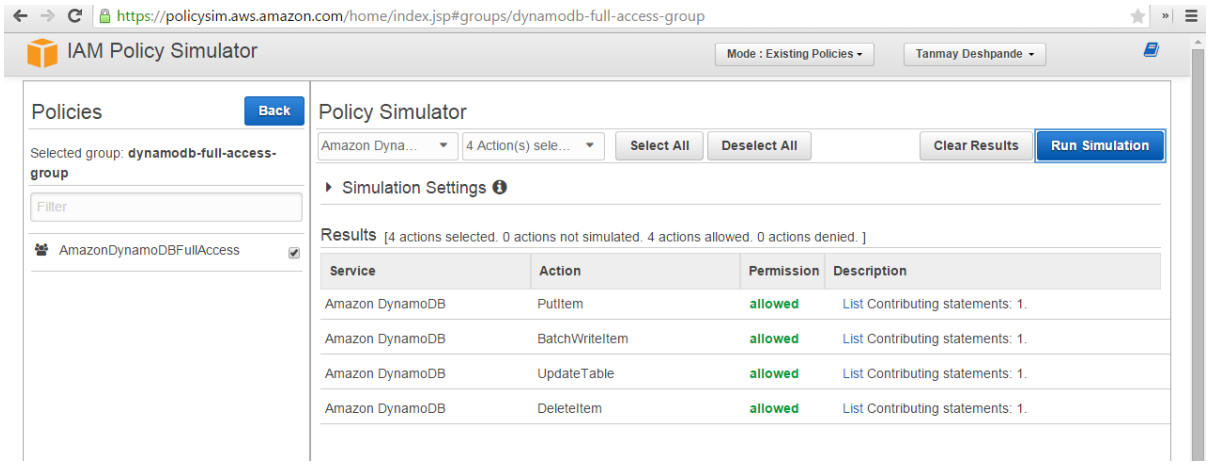

https://console.aws.amazon.com/iam/home?region=us-east-1#groups
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Dashboard
Details
Groups
Users
Roles
Policies
Identity Providers
Create New Group
Group Actions
Add Users to Group
Delete Group
Edit Group Name
Remove Users from Group
Search
Showing 1 results
Group Name
Inline Policy
Creation Time
2015-06-06 10:24 UTC+0530

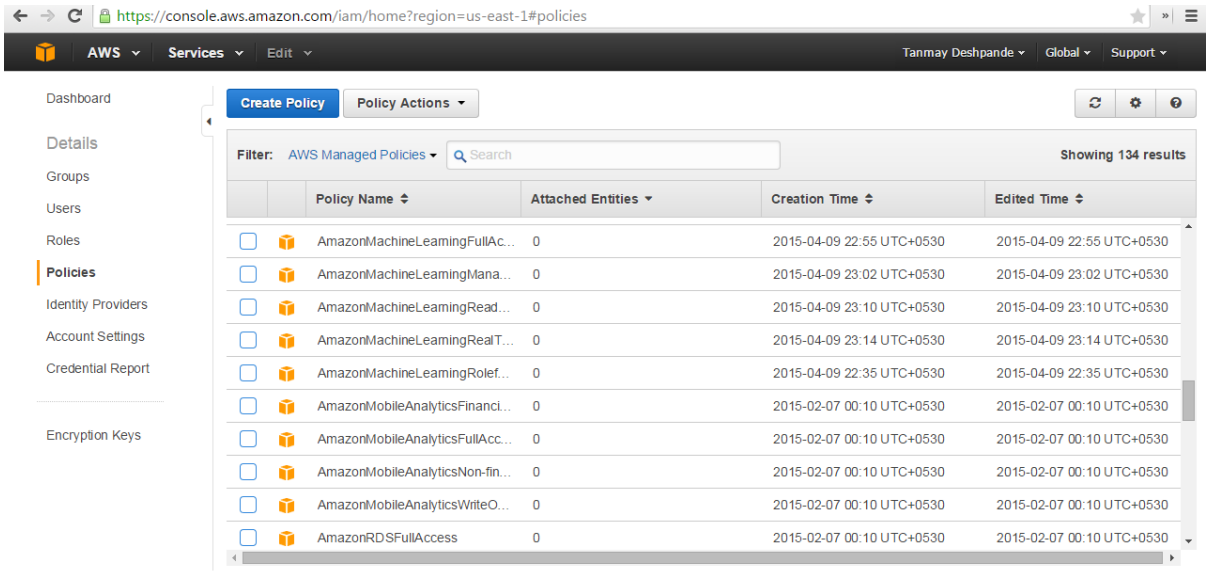

https://console.aws.amazon.com/iam/home?region=us-east-1#groups
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Add Users to Group
Select users to add to the group dynamodb-full-access-group
Search
Showing 6 results
User Name
Groups
Password
Password Last Used
Access Keys
Creation Time
dynamodb-user-1 0 N/A 1 active 2015-06-06 09:49 U..
dynamodb-user-2 0 N/A 1 active 2015-06-06 09:49 U..
dynamodb-user-3 0 N/A 1 active 2015-06-06 09:49 U..
dynamodb-user-4 0 N/A 1 active 2015-06-06 09:49 U..
dynamodb-user-5 0 N/A 1 active 2015-06-06 09:49 U..
tanmaydeshpande 0 N/A 1 active 2015-04-09 14:15 U..
Cancel
Add Users

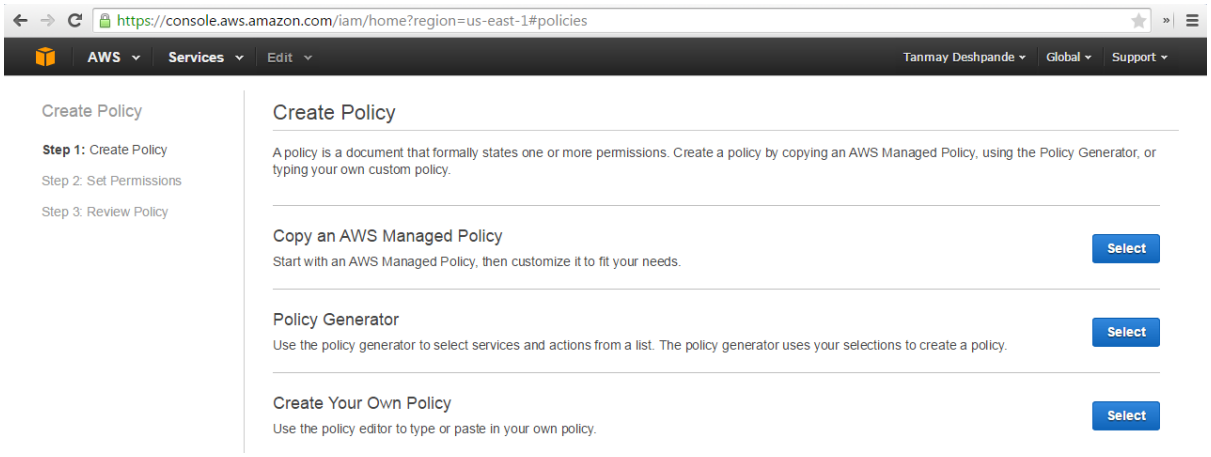

https://console.aws.amazon.com/iam/home?region=us-east-1#groups
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create New Group Wizard
Step 1: Group Name
Step 2: Attach Policy
Step 3: Review
Attach Policy
Select up to two policies to attach to the group.
Filter:
Policy Type
Search
Showing 134 results
Policy Name
Attached Entities
Creation Time
Edited Time
AmazonCognitoDeveloperAu... 0 2015-03-24 22:52 UTC+0530 2015-03-24 22:52 UTC+0...
AmazonCognitoPowerUser 0 2015-03-24 22:44 UTC+0530 2015-03-24 22:44 UTC+0...
AmazonCognitoReadOnly 0 2015-03-24 22:36 UTC+0530 2015-03-24 22:36 UTC+0...
AmazonDynamoDBFullAcce... 0 2015-02-07 00:10 UTC+0530 2015-02-07 00:10 UTC+0...
AmazonDynamoDBReadOnl... 0 2015-02-07 00:10 UTC+0530 2015-02-07 00:10 UTC+0...
AmazonEC2ContainerServic... 0 2015-03-20 00:15 UTC+0530 2015-03-20 00:15 UTC+0...
AmazonEC2ContainerServic... 0 2015-04-24 22:24 UTC+0530 2015-04-24 22:24 UTC+0...
AmazonEC2ContainerServic... 0 2015-04-09 21:44 UTC+0530 2015-04-09 21:44 UTC+0...
Cancel
Previous
Next Step

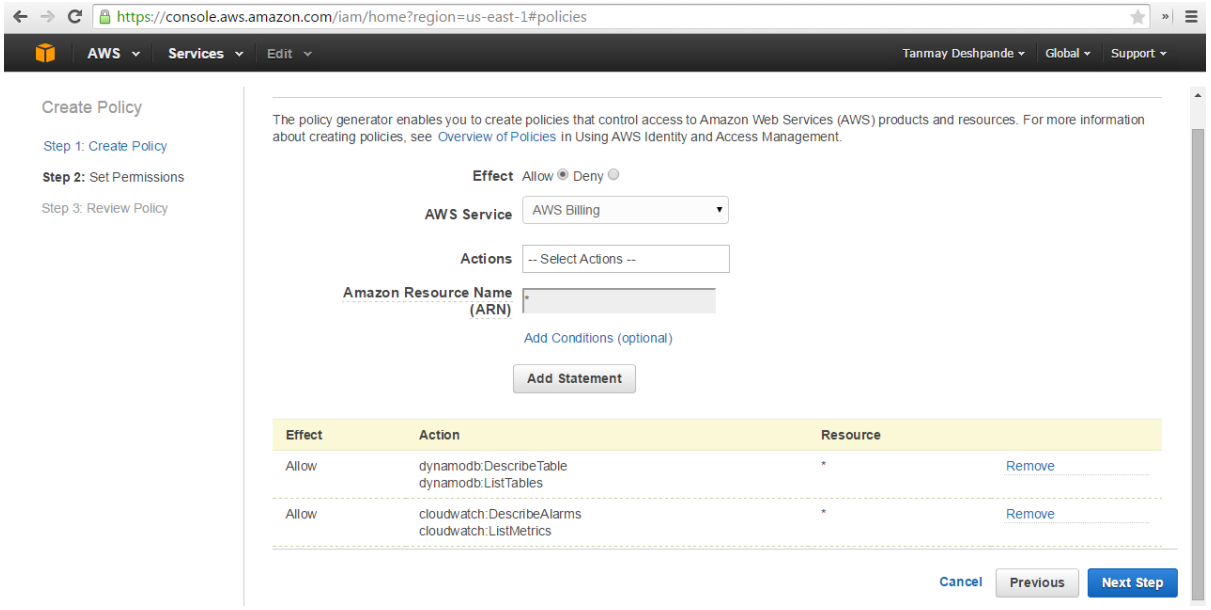

https://policysim.aws.amazon.com/home/index.jsp#groups
IAM Policy Simulator
Mode : Existing Policies
Tanmay Deshpande
Users, Groups, and Roles
Groups
Filter
dynamodb-full-access-group
dynamodb-read-only-group
Policy Simulator
Select service
Select actions
Select All
Deselect All
Clear Results
Run Simulation
Simulation Settings
Results [0 actions selected. 0 actions not simulated. 0 actions allowed. 0 actions denied.]
Service
Action
Permission
Description

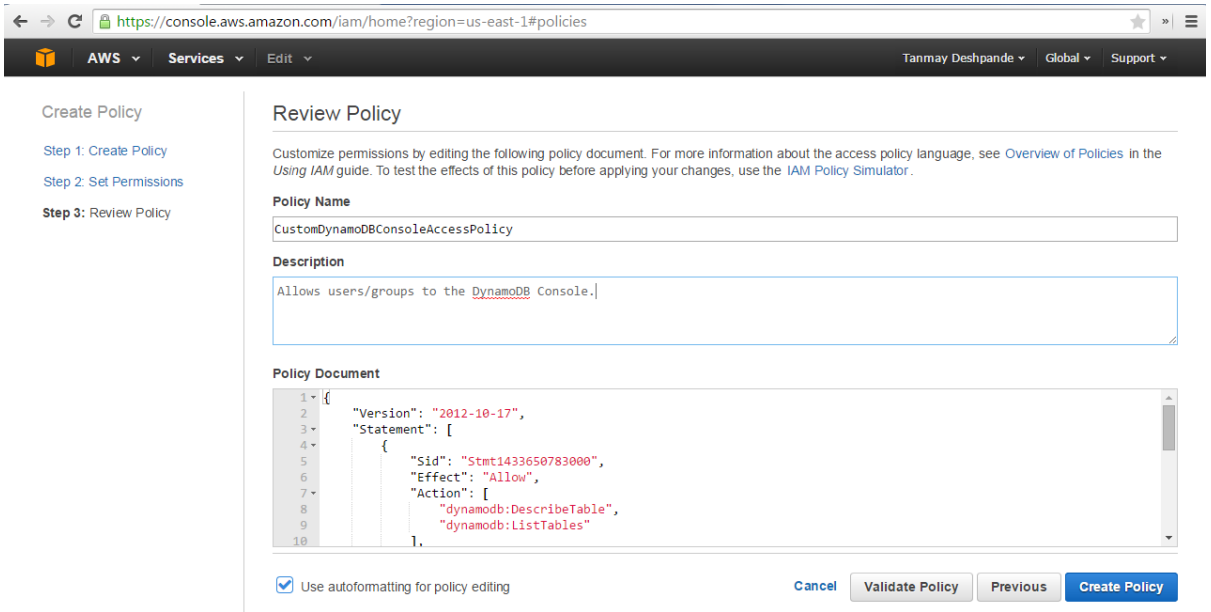

https://policysim.aws.amazon.com/home/index.jsp#groups
IAM Policy Simulator
Mode : Existing Policies
Tanmay Deshpande
Users, Groups, and Roles
Groups
Filter
dynamodb-full-access-group
dynamodb-read-only-group
Policy Simulator
Amazon Dyna...
4 Action(s) sele...
Select All
Deselect All
Clear Results
Run Simulation
Simulation Settings
Results [4 actions selected. 0 actions not simulated. 0 actions allowed. 4 actions denied.]
Service
Action
Permission
Description
Amazon DynamoDB
PutItem
denied
Implicitly denied (no matching statements found).
Amazon DynamoDB
BatchWriteItem
denied
Implicitly denied (no matching statements found).
Amazon DynamoDB
UpdateTable
denied
Implicitly denied (no matching statements found).
Amazon DynamoDB
DeleteItem
denied
Implicitly denied (no matching statements found).

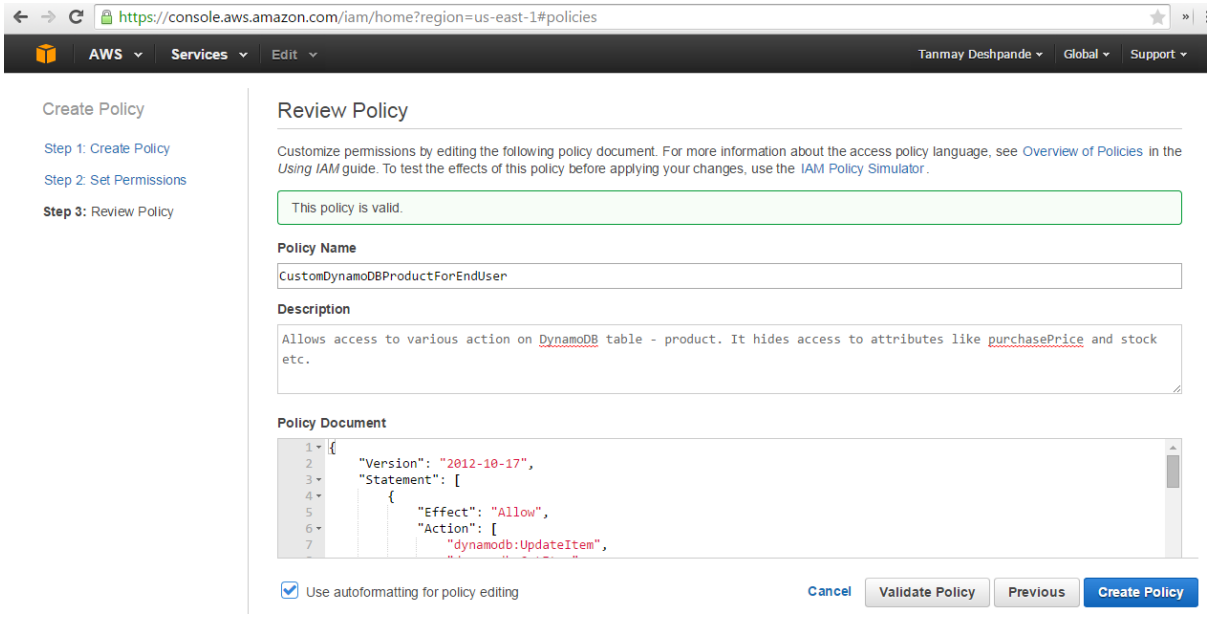

https://policysim.aws.amazon.com/home/index.jsp#groups/dynamodb-full-access-group
IAM Policy Simulator
Mode : Existing Policies
Tanmay Deshpande
Policies
Back
Selected group: dynamodb-full-access-group
Filter
AmazonDynamoDBFullAccess
Policy Simulator
Amazon Dyna...
4 Action(s) sele...
Select All
Deselect All
Clear Results
Run Simulation
Simulation Settings
Results [4 actions selected. 0 actions not simulated. 4 actions allowed. 0 actions denied.]
Service
Action
Permission
Description
Amazon DynamoDB
PutItem
allowed
List Contributing statements: 1.
Amazon DynamoDB
BatchWriteItem
allowed
List Contributing statements: 1.
Amazon DynamoDB
UpdateTable
allowed
List Contributing statements: 1.
Amazon DynamoDB
DeleteItem
allowed
List Contributing statements: 1.

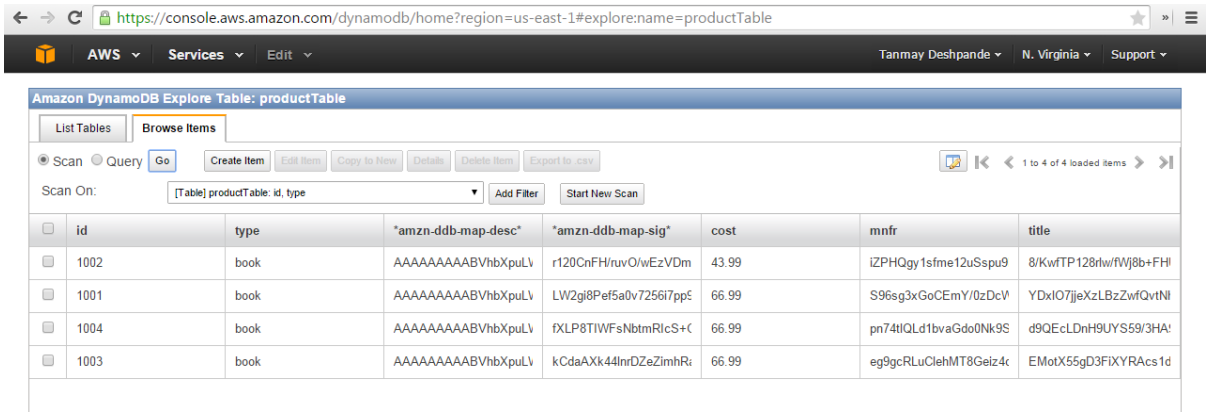

https://console.aws.amazon.com/iam/home?region=us-east-1#policies
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Dashboard
Details
Groups
Users
Roles
Policies
Identity Providers
Account Settings
Credential Report
Encryption Keys
Create Policy
Policy Actions
Filter:
AWS Managed Policies
Search
Showing 134 results
Policy Name
Attached Entities
Creation Time
Edited Time
AmazonMachineLearningFullAc...
0
2015-04-09 22:55 UTC+0530
2015-04-09 22:55 UTC+0530
AmazonMachineLearningMana...
0
2015-04-09 23:02 UTC+0530
2015-04-09 23:02 UTC+0530
AmazonMachineLearningRead...
0
2015-04-09 23:10 UTC+0530
2015-04-09 23:10 UTC+0530
AmazonMachineLearningRealT...
0
2015-04-09 23:14 UTC+0530
2015-04-09 23:14 UTC+0530
AmazonMachineLearningRolef...
0
2015-04-09 22:35 UTC+0530
2015-04-09 22:35 UTC+0530
AmazonMobileAnalyticsFinanci...
0
2015-02-07 00:10 UTC+0530
2015-02-07 00:10 UTC+0530
AmazonMobileAnalyticsFullAcc...
0
2015-02-07 00:10 UTC+0530
2015-02-07 00:10 UTC+0530
AmazonMobileAnalyticsNon-fin...
0
2015-02-07 00:10 UTC+0530
2015-02-07 00:10 UTC+0530
AmazonMobileAnalyticsWriteO...
0
2015-02-07 00:10 UTC+0530
2015-02-07 00:10 UTC+0530
AmazonRDSFullAccess
0
2015-02-07 00:10 UTC+0530
2015-02-07 00:10 UTC+0530


https://console.aws.amazon.com/iam/home?region=us-east-1#policies
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create Policy
Step 1: Create Policy
Step 2: Set Permissions
Step 3: Review Policy
Create Policy
A policy is a document that formally states one or more permissions. Create a policy by copying an AWS Managed Policy, using the Policy Generator, or typing your own custom policy.
Copy an AWS Managed Policy
Start with an AWS Managed Policy, then customize it to fit your needs.
Select
Policy Generator
Use the policy generator to select services and actions from a list. The policy generator uses your selections to create a policy.
Select
Create Your Own Policy
Use the policy editor to type or paste in your own policy.
Select

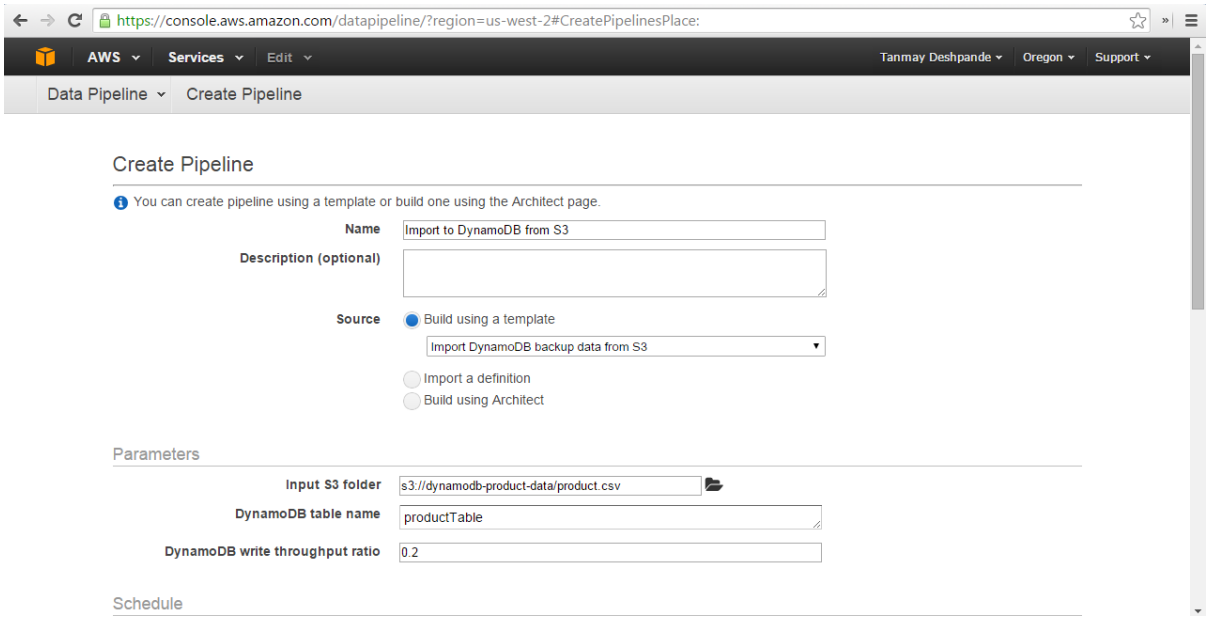

https://console.aws.amazon.com/iam/home?region=us-east-1#policies
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create Policy
Step 1: Create Policy
Step 2: Set Permissions
Step 3: Review Policy
The policy generator enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see Overview of Policies in Using AWS Identity and Access Management.
Effect Allow Deny
AWS Service AWS Billing
Actions -- Select Actions --
Amazon Resource Name (ARN) *
Add Conditions (optional)
Add Statement
Effect Action Resource
Allow dynamodb:DescribeTable dynamodb:ListTables * Remove
Allow cloudwatch:DescribeAlarms cloudwatch:ListMetrics * Remove
Cancel Previous Next Step

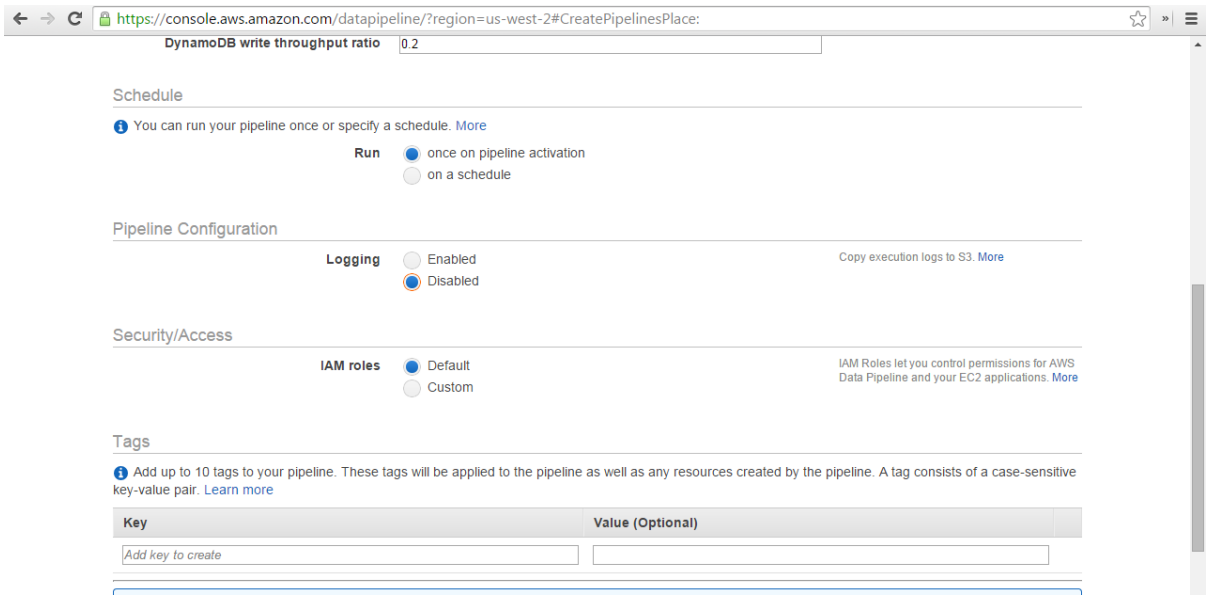

https://console.aws.amazon.com/iam/home?region=us-east-1#policies
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create Policy
Step 1: Create Policy
Step 2: Set Permissions
Step 3: Review Policy
Review Policy
Customize permissions by editing the following policy document. For more information about the access policy language, see Overview of Policies in the Using IAM guide. To test the effects of this policy before applying your changes, use the IAM Policy Simulator.
Policy Name
CustomDynamoDBConsoleAccessPolicy
Description
Allows users/groups to the DynamoDB Console.
Policy Document
{
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Stmt1433650783000",
"Effect": "Allow",
"Action": [
"dynamodb:DescribeTable",
"dynamodb:ListTables"
],
Use autoformatting for policy editing
Cancel Validate Policy Previous Create Policy

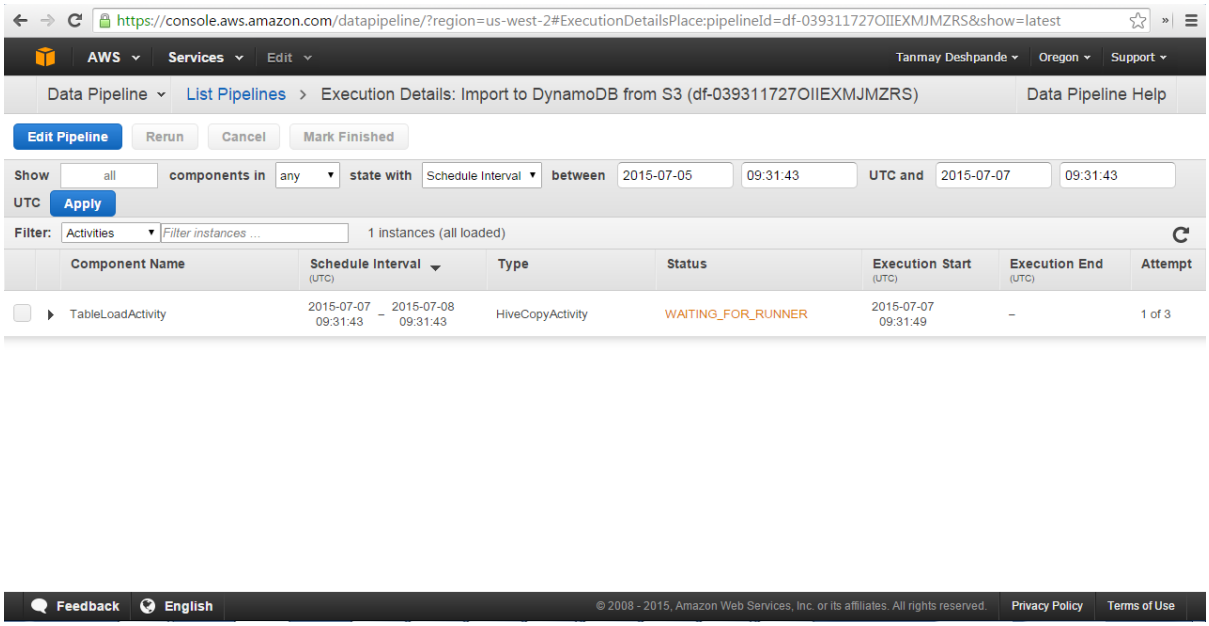

https://console.aws.amazon.com/iam/home?region=us-east-1#policies
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create Policy
Step 1: Create Policy
Step 2: Set Permissions
Step 3: Review Policy
Review Policy
Customize permissions by editing the following policy document. For more information about the access policy language, see Overview of Policies in the Using IAM guide. To test the effects of this policy before applying your changes, use the IAM Policy Simulator.
This policy is valid.
Policy Name
CustomDynamoDBProductForEndUser
Description
Allows access to various action on DynamoDB table - product. It hides access to attributes like purchasePrice and stock etc.
Policy Document
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": [
"dynamodb:UpdateItem",
Use autoformatting for policy editing
Cancel
Validate Policy
Previous
Create Policy


https://console.aws.amazon.com/dynamodb/home?region=us-east-1#explore:name=productTable
AWS
Services
Edit
Tanmay Deshpande
N. Virginia
Support
Amazon DynamoDB Explore Table: productTable
List Tables
Browse Items
Scan
Query
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 4 of 4 loaded items
Scan On:
[Table] productTable: id, type
Add Filter
Start New Scan
id
type
amzn-ddb-map-desc
amzn-ddb-map-sig
cost
mnfr
title
1002
book
AAAAAAAAABVhbXpuLV
r120CnFH/ruvO/wEzVDm
43.99
iZPHQgy1sfme12uSspu9
8/KwfTP128rlw/fWj8b+FHI
1001
book
AAAAAAAAABVhbXpuLV
LW2gi8Pef5a0v7256i7pp
66.99
S96sg3xGoCEmY/0zDcV
YDxIO7jjeXzLBzZwfQvtNI
1004
book
AAAAAAAAABVhbXpuLV
fXLP8TIWFsNbtmRlcS+(
66.99
pn74tlQLd1bvaGdo0Nk9S
d9QEcLDnH9UYS59/3HA
1003
book
AAAAAAAAABVhbXpuLV
kCdaAXk44lnrDZeZimhR
66.99
eg9gcRLuClehMT8Geiz4
EMotX55gD3FiXYRAcs1d

Chapter 8


https://console.aws.amazon.com/datapipeline/?region=us-west-2#CreatePipelinesPlace:
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Data Pipeline
Create Pipeline
Create Pipeline
You can create pipeline using a template or build one using the Architect page.
Name
Import to DynamoDB from S3
Description (optional)
Source
Build using a template
Import DynamoDB backup data from S3
Import a definition
Build using Architect
Parameters
Input S3 folder
s3://dynamodb-product-data/product.csv
DynamoDB table name
productTable
DynamoDB write throughput ratio
0.2
Schedule


https://console.aws.amazon.com/datapipeline/?region=us-west-2#CreatePipelinesPlace:
DynamoDB write throughput ratio
0.2
Schedule
You can run your pipeline once or specify a schedule. More
Run
once on pipeline activation
on a schedule
Pipeline Configuration
Logging
Enabled
Disabled
Copy execution logs to S3. More
Security/Access
IAM roles
Default
Custom
IAM Roles let you control permissions for AWS Data Pipeline and your EC2 applications. More
Tags
Add up to 10 tags to your pipeline. These tags will be applied to the pipeline as well as any resources created by the pipeline. A tag consists of a case-sensitive key-value pair. Learn more
Key
Value (Optional)
Add key to create


https://console.aws.amazon.com/datapipeline/?region=us-west-2#ExecutionDetailsPlace:pipelineId=df-039311727OIIEXMJMZRS&show=latest
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Data Pipeline
List Pipelines
Execution Details: Import to DynamoDB from S3 (df-039311727OIIEXMJMZRS)
Data Pipeline Help
Edit Pipeline
Rerun
Cancel
Mark Finished
Show all components in any state with Schedule Interval between 2015-07-05 09:31:43 UTC and 2015-07-07 09:31:43 UTC Apply
Filter: Activities Filter instances ...
1 instances (all loaded)
Component Name
Schedule Interval (UTC)
Type
Status
Execution Start (UTC)
Execution End (UTC)
Attempt
TableLoadActivity
2015-07-07 09:31:43 – 2015-07-08 09:31:43
HiveCopyActivity
WAITING_FOR_RUNNER
2015-07-07 09:31:49
–
1 of 3

Feedback
English
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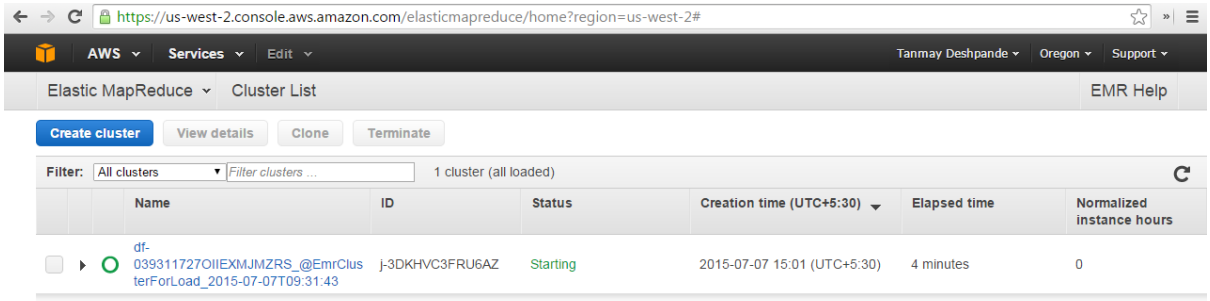
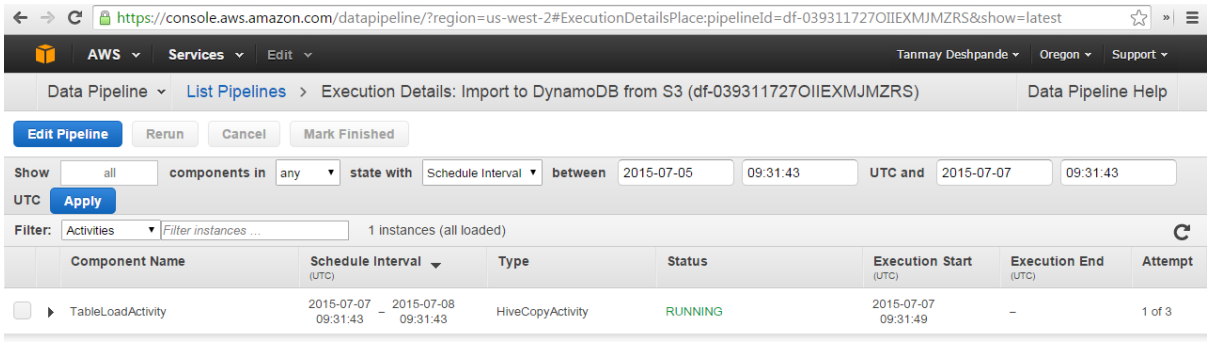
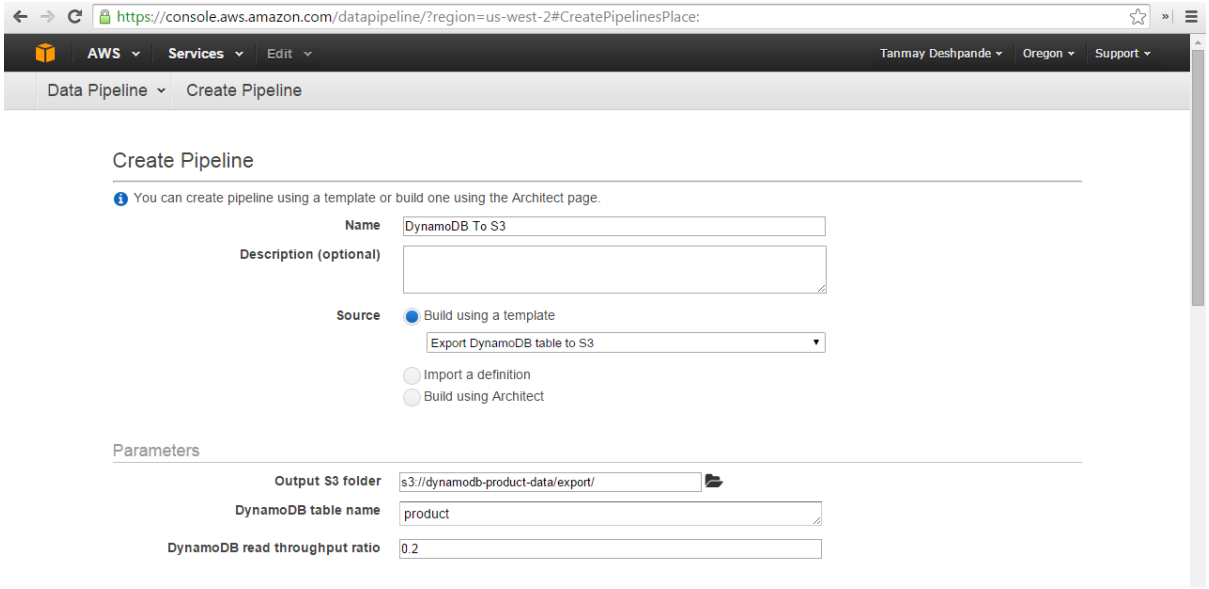
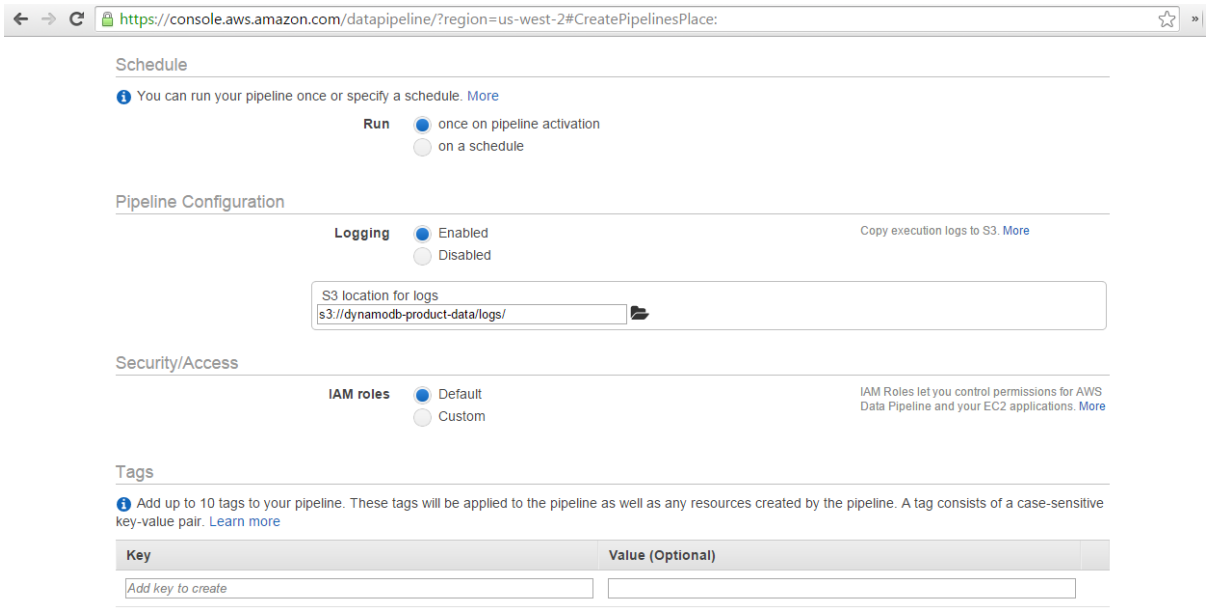
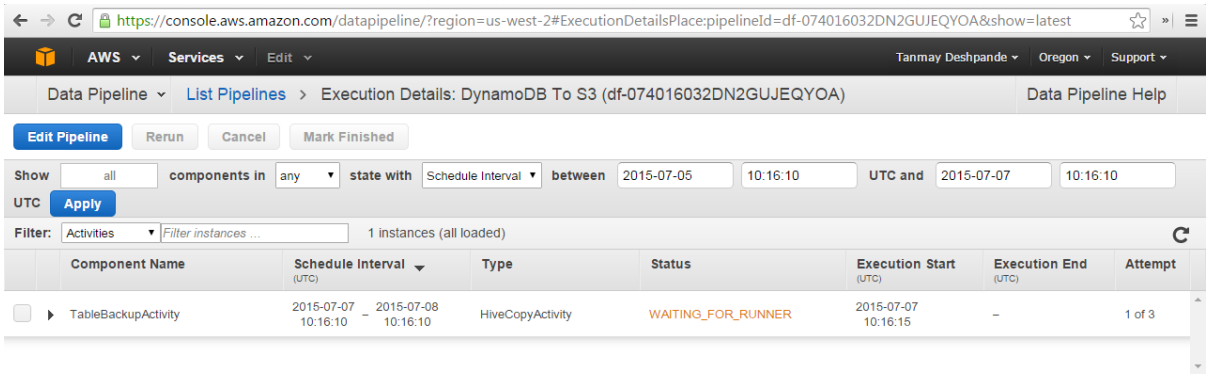
Privacy Policy
Terms of Use

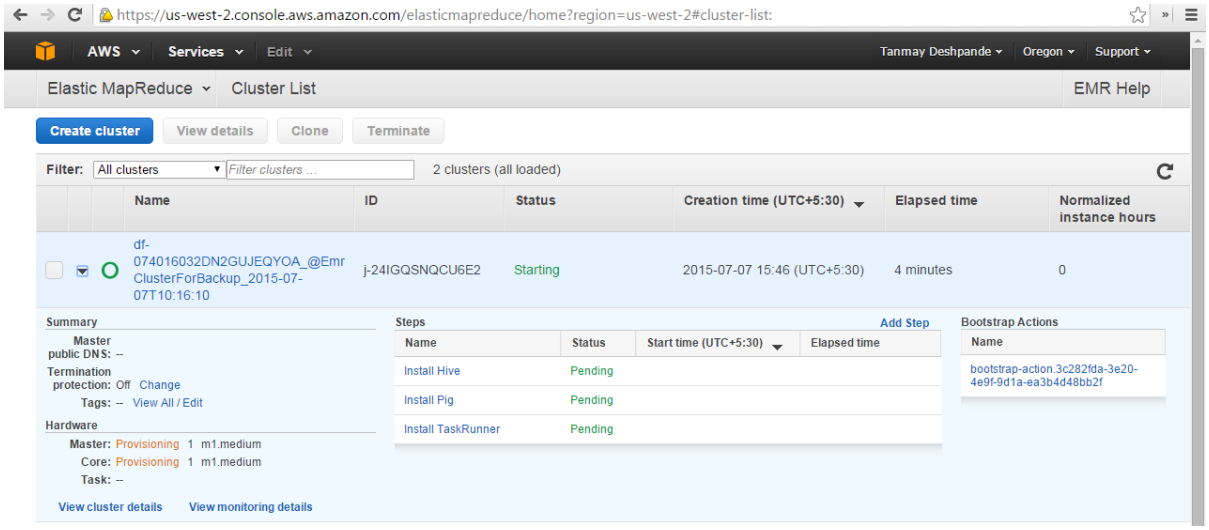

https://us-west-2.console.aws.amazon.com/elasticmapreduce/home?region=us-west-2#
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Elastic MapReduce
Cluster List
EMR Help
Create cluster
View details
Clone
Terminate
Filter: All clusters Filter clusters ...
1 cluster (all loaded)
Name
ID
Status
Creation time (UTC+5:30)
Elapsed time
Normalized instance hours
df-039311727OIIEXMJMZRS_@EmrClusterForLoad_2015-07-07T09:31:43
j-3DKHVC3FRU6AZ
Starting
2015-07-07 15:01 (UTC+5:30)
4 minutes
0

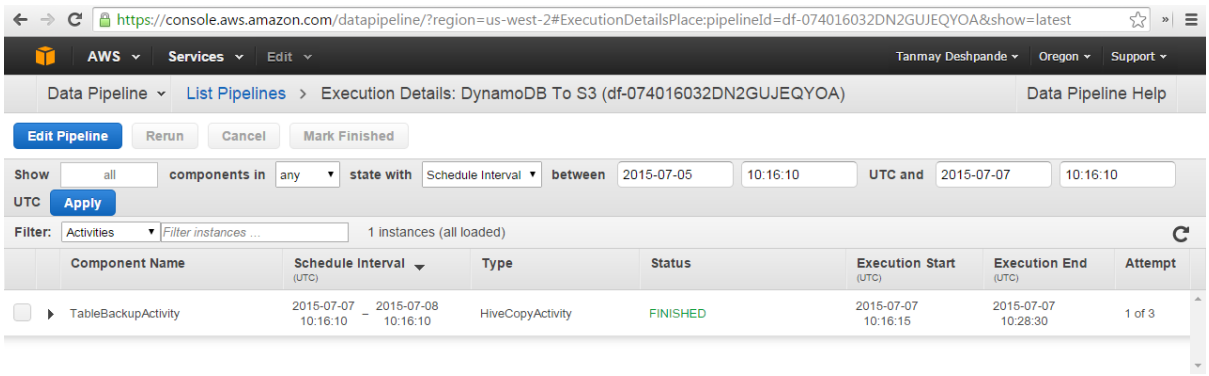

https://console.aws.amazon.com/datapipeline/?region=us-west-2#ExecutionDetailsPlace:pipelineId=df-039311727OIIEXMJMZRS&show=latest
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Data Pipeline
List Pipelines
Execution Details: Import to DynamoDB from S3 (df-039311727OIIEXMJMZRS)
Data Pipeline Help
Edit Pipeline
Rerun
Cancel
Mark Finished
Show all components in any state with Schedule Interval between 2015-07-05 09:31:43 UTC and 2015-07-07 09:31:43 UTC Apply
Filter: Activities Filter instances ...
1 instances (all loaded)
Component Name
Schedule Interval (UTC)
Type
Status
Execution Start (UTC)
Execution End (UTC)
Attempt
TableLoadActivity
2015-07-07 09:31:43 – 2015-07-08 09:31:43
HiveCopyActivity
RUNNING
2015-07-07 09:31:49
–
1 of 3


https://console.aws.amazon.com/datapipeline/?region=us-west-2#CreatePipelinesPlace:
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Data Pipeline
Create Pipeline
Create Pipeline
You can create pipeline using a template or build one using the Architect page.
Name
DynamoDB To S3
Description (optional)
Source
Build using a template
Export DynamoDB table to S3
Import a definition
Build using Architect
Parameters
Output S3 folder
s3://dynamodb-product-data/export/
DynamoDB table name
product
DynamoDB read throughput ratio
0.2

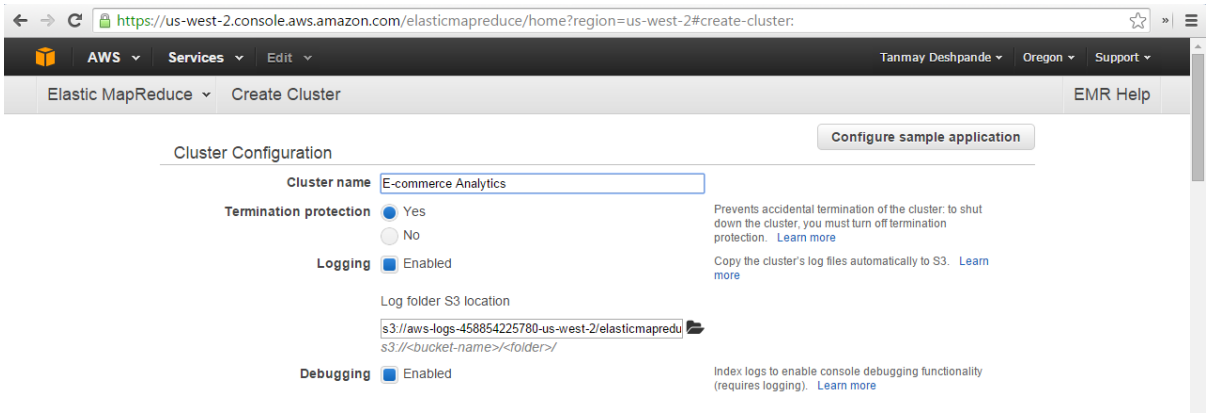

https://console.aws.amazon.com/datapipeline/?region=us-west-2#CreatePipelinesPlace:
Schedule
You can run your pipeline once or specify a schedule. More
Run
once on pipeline activation
on a schedule
Pipeline Configuration
Logging
Enabled
Disabled
Copy execution logs to S3. More
S3 location for logs
s3://dynamodb-product-data/logs/
Security/Access
IAM roles
Default
Custom
IAM Roles let you control permissions for AWS Data Pipeline and your EC2 applications. More
Tags
Add up to 10 tags to your pipeline. These tags will be applied to the pipeline as well as any resources created by the pipeline. A tag consists of a case-sensitive key-value pair. Learn more
Key
Value (Optional)
Add key to create

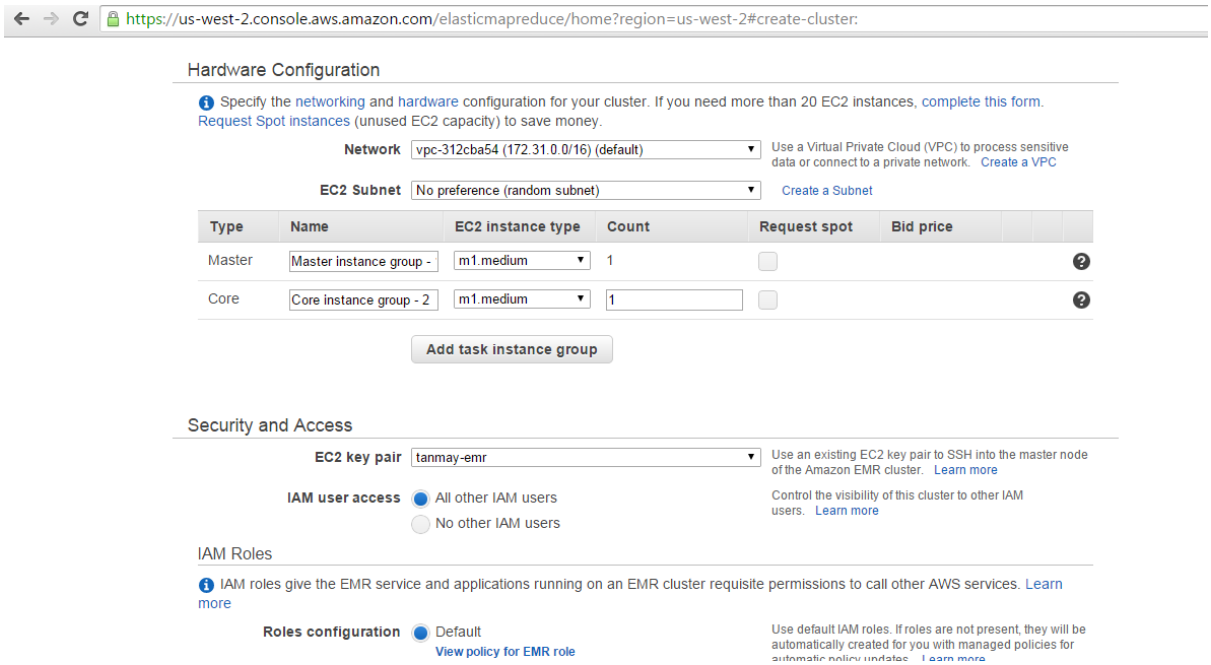

https://console.aws.amazon.com/datapipeline/?region=us-west-2#ExecutionDetailsPlace:pipelineId=df-074016032DN2GUJEQYOA&show=latest
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Data Pipeline
List Pipelines
Execution Details: DynamoDB To S3 (df-074016032DN2GUJEQYOA)
Data Pipeline Help
Edit Pipeline
Rerun
Cancel
Mark Finished
Show
all
components in
any
state with
Schedule Interval
between
2015-07-05
10:16:10
UTC and
2015-07-07
10:16:10
UTC
Apply
Filter:
Activities
Filter instances ...
1 instances (all loaded)
Component Name
Schedule Interval (UTC)
Type
Status
Execution Start (UTC)
Execution End (UTC)
Attempt
TableBackupActivity
2015-07-07 10:16:10 – 2015-07-08 10:16:10
HiveCopyActivity
WAITING_FOR_RUNNER
2015-07-07 10:16:15
–
1 of 3

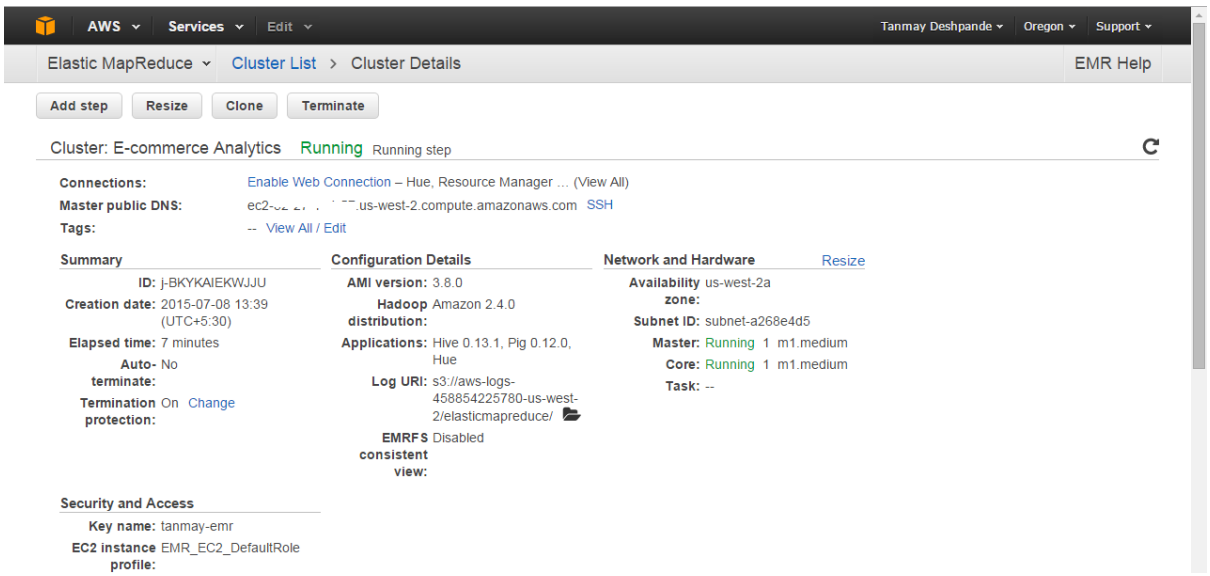


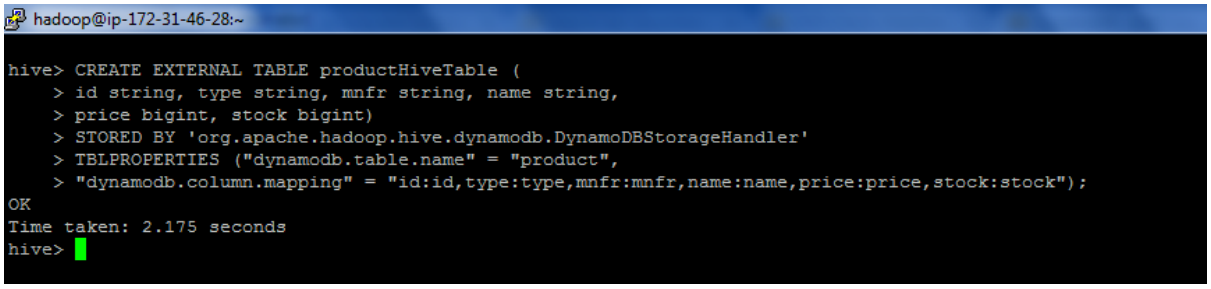



```
1 featuresPTX{"m":{"screen":{"s":"4.7\" LED-backlit IPS LCD Multi-Touchscreen Shatter proof glass"},"camera":{"s":"8MP"},"intMem":{"s":"128GB"},"processor":{"s":"Dual-Core 1.4 GHz Cyclone (ARM v8-based)"}}}PTXidPTX{"s":"2"}PTXpricePTX{"n":"1000"}PTXstockPTX{"n":"100"}PTXtypePTX{"s":"phone"}PTXmnfrPTX{"s":"Apple"}PTXnamePTX{"s":"Apple iPhone 6, Gold, 128 GB"}
2 featuresPTX{"m":{"author":{"sS":["Prabhakaran Kuppusamy","Uchit Vyas"]},"ISBN":{"s":"978-1783551897"},"dimensions":{"s":"7.5 x 0.5 x 9.2 inches"},"paperback":{"s":"180 Pages"}}}PTXidPTX{"s":"1"}PTXpricePTX{"n":"44.99"}PTXstockPTX{"n":"10"}PTXtypePTX{"s":"book"}PTXmnfrPTX{"s":"PacktPub"}PTXnamePTX{"s":"DynamoDB Applied Design Patterns"}
3 featuresPTX{"m":{"screen":{"s":"4.7\" LED-backlit IPS LCD Multi-Touchscreen Shatter proof glass"},"camera":{"s":"8MP"},"intMem":{"s":"64GB"},"processor":{"s":"Dual-Core 1.4 GHz Cyclone (ARM v8-based)"}}}PTXidPTX{"s":"1"}PTXpricePTX{"n":"850"}PTXstockPTX{"n":"120"}PTXtypePTX{"s":"phone"}PTXmnfrPTX{"s":"Apple"}PTXnamePTX{"s":"Apple iPhone 6, Gold, 64 GB"}
4 featuresPTX{"m":{"author":{"s":"Tanmay Deshpande"},"ISBN":{"s":"978-1783551958"},"dimensions":{"s":"7.5 x 0.5 x 9.2 inches"},"paperback":{"s":"230 Pages"}}}PTXidPTX{"s":"5"}PTXpricePTX{"n":"44"}PTXstockPTX{"n":"20"}PTXtypePTX{"s":"book"}PTXmnfrPTX{"s":"PacktPub"}PTXnamePTX{"s":"Mastering DynamoDB"}
5 featuresPTX{"m":{"screen":{"s":"Super AMOLED capacitive touchscreen"},"camera":{"s":"8MP"},"intMem":{"s":"64GB"},"processor":{"s":"Quad-core 1.5 GHz Cortex-A53 & Quad-core 2.1 GHz - Exynos 7420"}}}PTXidPTX{"s":"4"}PTXpricePTX{"n":"820"}PTXstockPTX{"n":"20"}PTXtypePTX{"s":"phone"}PTXmnfrPTX{"s":"Samsung"}PTXnamePTX{"s":"Samsung Galaxy S5"}
6 featuresPTX{"m":{"screen":{"s":"Super AMOLED capacitive touchscreen"},"camera":{"s":"13MP"},"intMem":{"s":"64GB"},"processor":{"s":"Quad-core 1.5 GHz Cortex-A53 & Quad-core 2.1 GHz - Exynos 7420"}}}PTXidPTX{"s":"3"}PTXpricePTX{"n":"1119"}PTXstockPTX{"n":"30"}PTXtypePTX{"s":"phone"}PTXmnfrPTX{"s":"Samsung"}PTXnamePTX{"s":"Samsung Galaxy S6"}
7
```

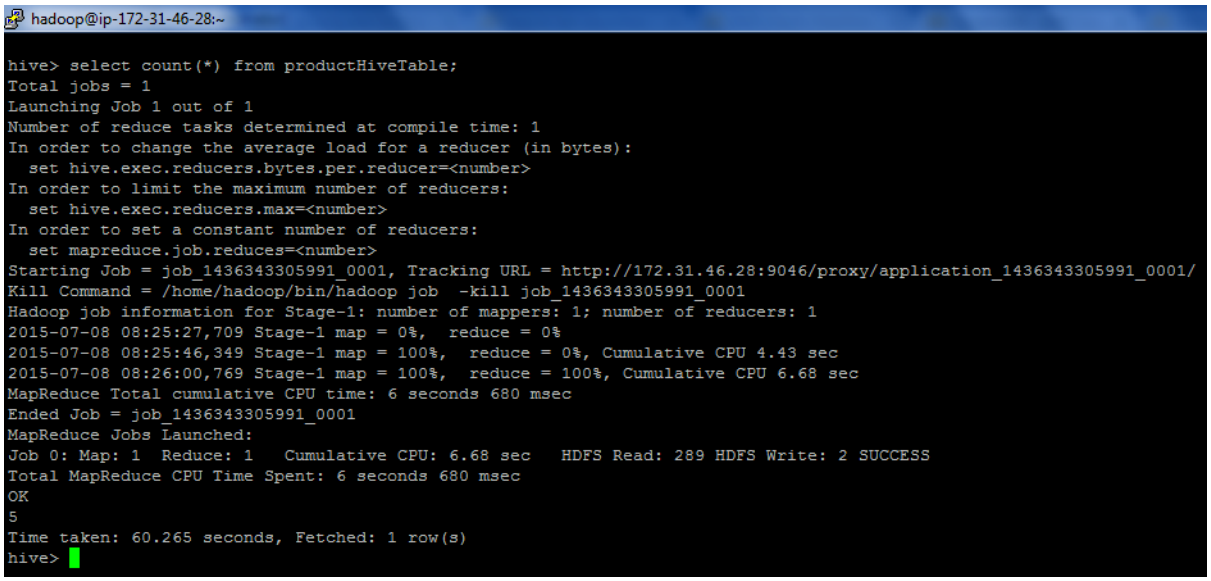

https://us-west-2.console.aws.amazon.com/elasticmapreduce/home?region=us-west-2#create-cluster:
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Elastic MapReduce
Create Cluster
EMR Help
Configure sample application
Cluster Configuration
Cluster name
E-commerce Analytics
Termination protection
Yes
No
Prevents accidental termination of the cluster: to shut down the cluster, you must turn off termination protection. Learn more
Logging
Enabled
Copy the cluster's log files automatically to S3. Learn more
Log folder S3 location
s3://aws-logs-458854225780-us-west-2/elasticmapredu
s3://<bucket-name>/<folder>/
Debugging
Enabled
Index logs to enable console debugging functionality (requires logging). Learn more


https://us-west-2.console.aws.amazon.com/elasticmapreduce/home?region=us-west-2#create-cluster:
Hardware Configuration
Specify the networking and hardware configuration for your cluster. If you need more than 20 EC2 instances, complete this form.
Request Spot instances (unused EC2 capacity) to save money.
Network
vpc-312cba54 (172.31.0.0/16) (default)
Use a Virtual Private Cloud (VPC) to process sensitive data or connect to a private network. Create a VPC
EC2 Subnet
No preference (random subnet)
Create a Subnet
Type
Name
EC2 instance type
Count
Request spot
Bid price
Master
Master instance group -
m1.medium
1
Core
Core instance group - 2
m1.medium
1
Add task instance group
Security and Access
EC2 key pair
tanmay-emr
Use an existing EC2 key pair to SSH into the master node of the Amazon EMR cluster. Learn more
IAM user access
All other IAM users
No other IAM users
Control the visibility of this cluster to other IAM users. Learn more
IAM Roles
IAM roles give the EMR service and applications running on an EMR cluster requisite permissions to call other AWS services. Learn more
Roles configuration
Default
View policy for EMR role
Use default IAM roles. If roles are not present, they will be automatically created for you with managed policies for


AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Elastic MapReduce
Cluster List
Cluster Details
EMR Help
Add step
Resize
Clone
Terminate
Cluster: E-commerce Analytics
Running
Running step
Connections:
Enable Web Connection – Hue, Resource Manager ... (View All)
Master public DNS:
.us-west-2.compute.amazonaws.com
SSH
Tags:
-- View All / Edit
Summary
ID: j-BKYKAIEKWJJU
Creation date: 2015-07-08 13:39 (UTC+5:30)
Elapsed time: 7 minutes
Auto-terminate: No
Termination protection: On Change
Configuration Details
AMI version: 3.8.0
Hadoop distribution: Amazon 2.4.0
Applications: Hive 0.13.1, Pig 0.12.0, Hue
Log URI: s3://aws-logs-458854225780-us-west-2/elasticmapreduce/
EMRFS consistent view: Disabled
Network and Hardware
Resize
Availability zone: us-west-2a
Subnet ID: subnet-a268e4d5
Master: Running 1 m1.medium
Core: Running 1 m1.medium
Task: --
Security and Access
Key name: tanmay-emr
EC2 instance profile: EMR_EC2_DefaultRole


hadoop@ip-172-31-46-28:~
hive> CREATE EXTERNAL TABLE productHiveTable (
> id string, type string, mnfr string, name string,
> price bigint, stock bigint)
> STORED BY 'org.apache.hadoop.hive.dynamodb.DynamoDBStorageHandler'
> TBLPROPERTIES ("dynamodb.table.name" = "product",
> "dynamodb.column.mapping" = "id:id,type:type,mnfr:mnfr,name:name,price:price,stock:stock");
OK
Time taken: 2.175 seconds
hive>

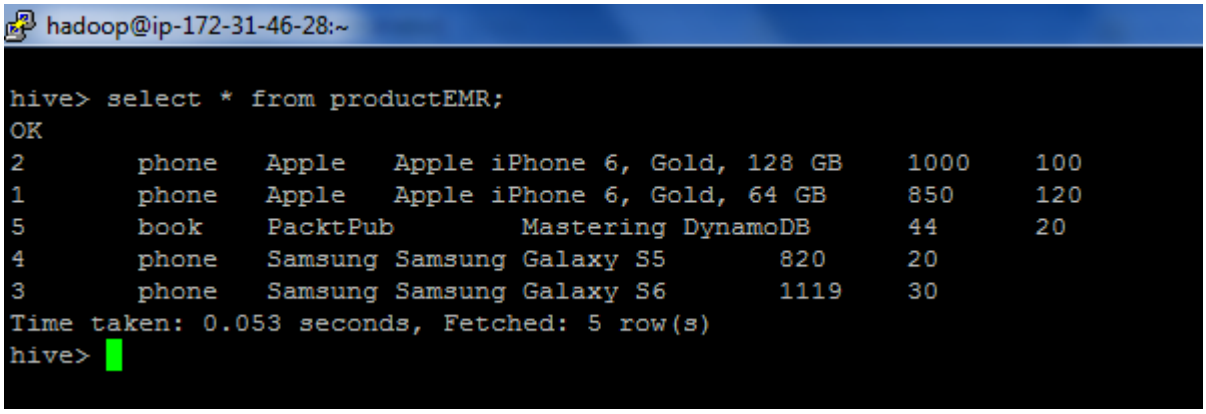

hadoop@ip-172-31-46-28:~
hive> select * from productHiveTable;
OK
2 phone Apple Apple iPhone 6, Gold, 128 GB 1000 100
1 phone Apple Apple iPhone 6, Gold, 64 GB 850 120
5 book PacktPub Mastering DynamoDB 44 20
4 phone Samsung Samsung Galaxy S5 820 20
3 phone Samsung Samsung Galaxy S6 1119 30
Time taken: 0.153 seconds, Fetched: 5 row(s)
hive>

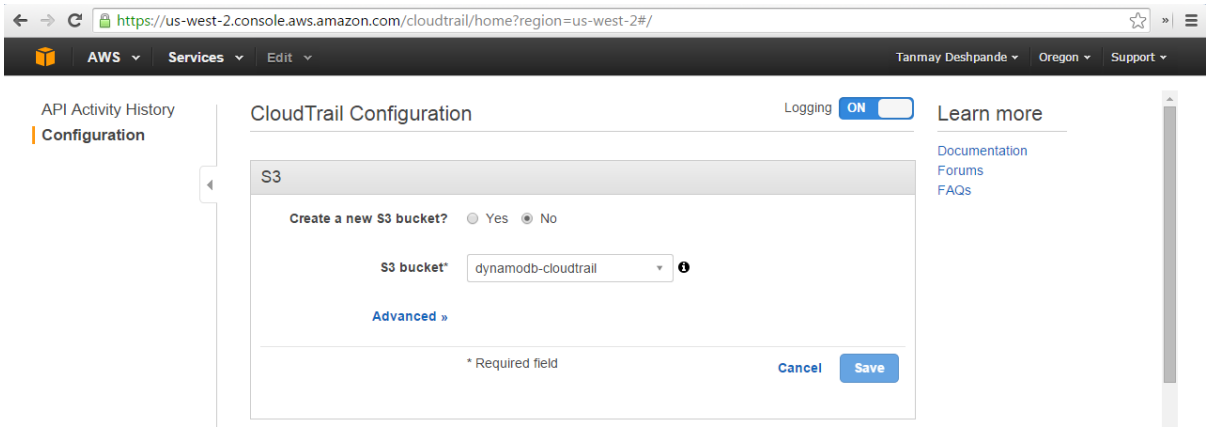

hadoop@ip-172-31-46-28:~
hive> select count(*) from productHiveTable;
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
set mapreduce.job.reduces=<number>
Starting Job = job_1436343305991_0001, Tracking URL = http://172.31.46.28:9046/proxy/application_1436343305991_0001/
Kill Command = /home/hadoop/bin/hadoop job -kill job_1436343305991_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2015-07-08 08:25:27,709 Stage-1 map = 0%, reduce = 0%
2015-07-08 08:25:46,349 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.43 sec
2015-07-08 08:26:00,769 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.68 sec
MapReduce Total cumulative CPU time: 6 seconds 680 msec
Ended Job = job_1436343305991_0001
MapReduce Jobs Launched:
Job 0: Map: 1 Reduce: 1 Cumulative CPU: 6.68 sec HDFS Read: 289 HDFS Write: 2 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 680 msec
OK
5
Time taken: 60.265 seconds, Fetched: 1 row(s)
hive>

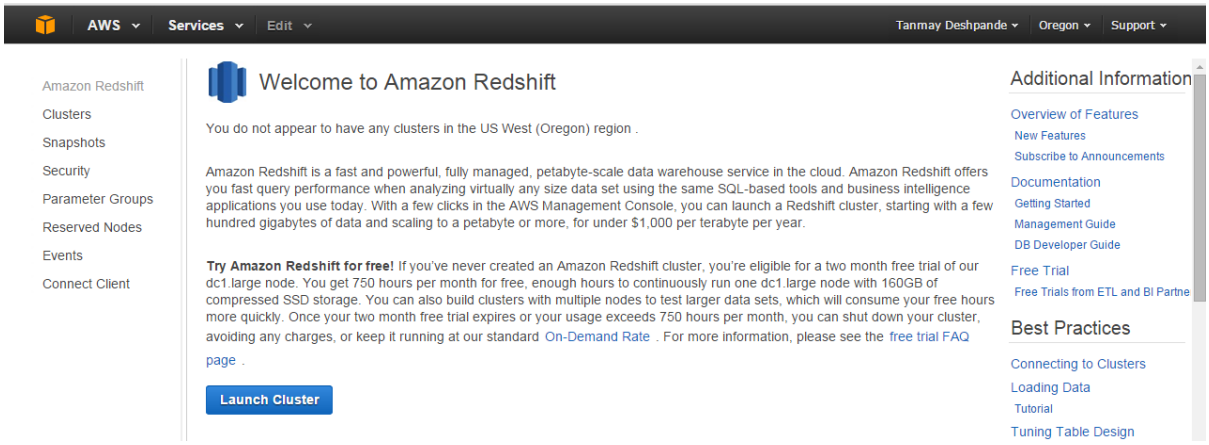
```
hadoop@ip-172-31-46-28:~

hive> select * from productHiveTable where mnfr="Apple" AND price < 1000;
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1436343305991_0002, Tracking URL = http://172.31.46.28:9046/proxy/application_1436343305991_0002/
Kill Command = /home/hadoop/bin/hadoop job  -kill job_1436343305991_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 0
2015-07-08 08:28:49,846 Stage-1 map = 0%,  reduce = 0%
2015-07-08 08:29:10,092 Stage-1 map = 100%,  reduce = 0%, Cumulative CPU 5.44 sec
MapReduce Total cumulative CPU time: 5 seconds 440 msec
Ended Job = job_1436343305991_0002
MapReduce Jobs Launched:
Job 0: Map: 1   Cumulative CPU: 5.44 sec   HDFS Read: 289 HDFS Write: 50 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 440 msec
OK
1       phone   Apple   Apple iPhone 6, Gold, 64 GB     850     120
Time taken: 38.283 seconds, Fetched: 1 row(s)
hive>
```

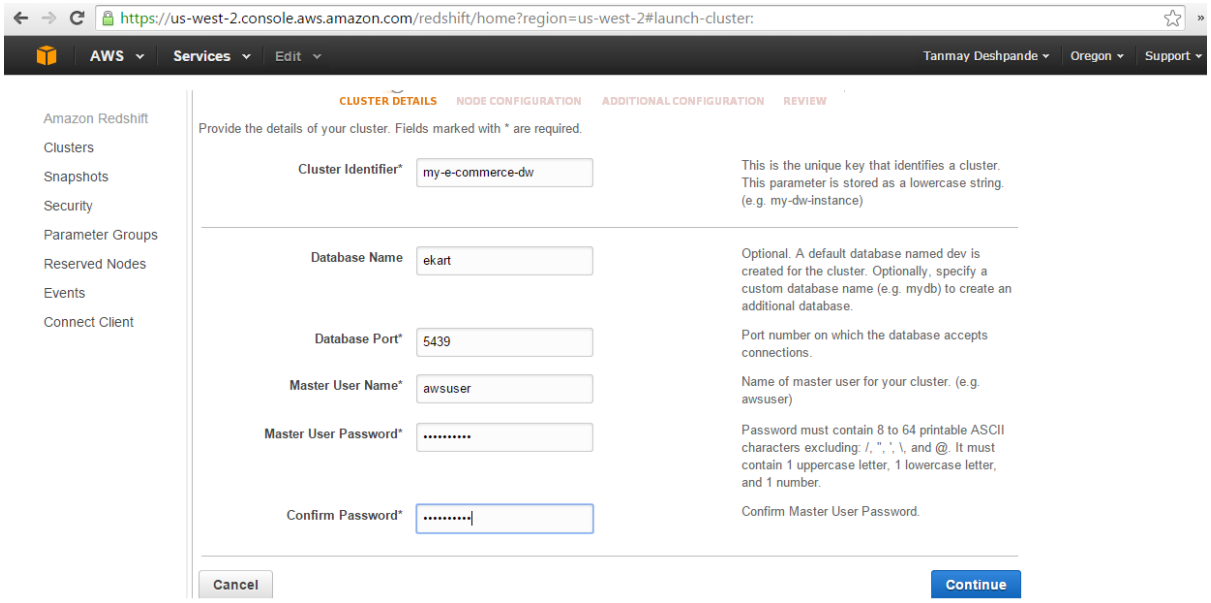
```
hadoop@ip-172-31-46-28:~

hive> select mnfr, count(*) from productHiveTable group by mnfr;
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1436343305991_0003, Tracking URL = http://172.31.46.28:9046/proxy/application_1436343305991_0003/
Kill Command = /home/hadoop/bin/hadoop job  -kill job_1436343305991_0003
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2015-07-08 08:30:48,485 Stage-1 map = 0%,  reduce = 0%
2015-07-08 08:31:07,752 Stage-1 map = 100%,  reduce = 0%, Cumulative CPU 4.42 sec
2015-07-08 08:31:22,648 Stage-1 map = 100%,  reduce = 100%, Cumulative CPU 6.68 sec
MapReduce Total cumulative CPU time: 6 seconds 680 msec
Ended Job = job_1436343305991_0003
MapReduce Jobs Launched:
Job 0: Map: 1  Reduce: 1   Cumulative CPU: 6.68 sec   HDFS Read: 289 HDFS Write: 29 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 680 msec
OK
Apple   2
PacktPub        1
Samsung 2
Time taken: 58.443 seconds, Fetched: 3 row(s)
hive>
```

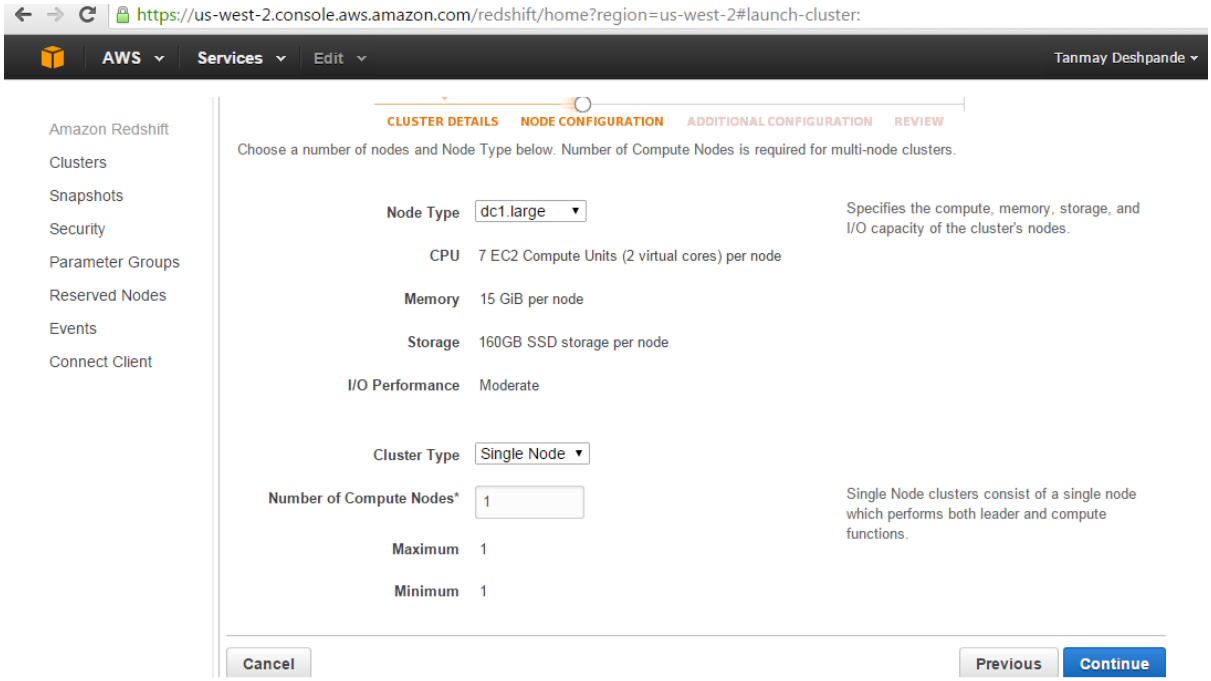
```
hadoop@ip-172-31-46-28:~

hive> create table productEMR as
    > select * from productHiveTable;
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1436343305991_0004, Tracking URL = http://172.31.46.28:9046/proxy/application_1436343305991_0004/
Kill Command = /home/hadoop/bin/hadoop job  -kill job_1436343305991_0004
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 0
2015-07-08 08:34:55,108 Stage-1 map = 0%,  reduce = 0%
2015-07-08 08:35:13,468 Stage-1 map = 100%,  reduce = 0%, Cumulative CPU 4.43 sec
MapReduce Total cumulative CPU time: 4 seconds 430 msec
Ended Job = job_1436343305991_0004
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Moving data to: hdfs://172.31.46.28:9000/tmp/hive-hadoop/hive_2015-07-08_08-34-38_199_3743398533995338385-1/-ext-10001
Moving data to: hdfs://172.31.46.28:9000/user/hive/warehouse/productemr
Table default.productemr stats: [numFiles=1, numRows=0, totalSize=226, rawDataSize=0]
MapReduce Jobs Launched:
Job 0: Map: 1   Cumulative CPU: 4.43 sec   HDFS Read: 289 HDFS Write: 301 SUCCESS
Total MapReduce CPU Time Spent: 4 seconds 430 msec
OK
Time taken: 36.601 seconds
hive>
```

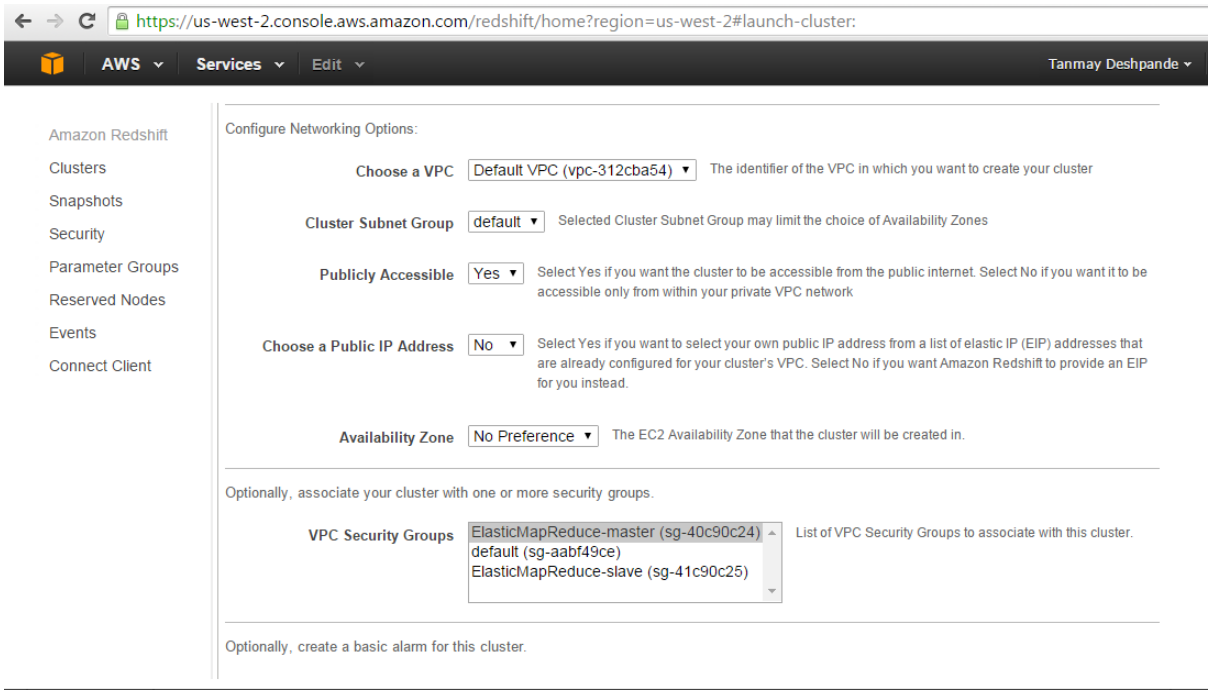

hadoop@ip-172-31-46-28:~
hive> select * from productEMR;
OK
2 phone Apple Apple iPhone 6, Gold, 128 GB 1000 100
1 phone Apple Apple iPhone 6, Gold, 64 GB 850 120
5 book PacktPub Mastering DynamoDB 44 20
4 phone Samsung Samsung Galaxy S5 820 20
3 phone Samsung Samsung Galaxy S6 1119 30
Time taken: 0.053 seconds, Fetched: 5 row(s)
hive>


https://us-west-2.console.aws.amazon.com/cloudtrail/home?region=us-west-2#/
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
API Activity History
Configuration
CloudTrail Configuration
Logging
ON
Learn more
Documentation
Forums
FAQs
S3
Create a new S3 bucket?
Yes
No
S3 bucket*
dynamodb-cloudtrail
Advanced »
* Required field
Cancel
Save


AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon Redshift
Clusters
Snapshots
Security
Parameter Groups
Reserved Nodes
Events
Connect Client
Welcome to Amazon Redshift
You do not appear to have any clusters in the US West (Oregon) region .
Amazon Redshift is a fast and powerful, fully managed, petabyte-scale data warehouse service in the cloud. Amazon Redshift offers you fast query performance when analyzing virtually any size data set using the same SQL-based tools and business intelligence applications you use today. With a few clicks in the AWS Management Console, you can launch a Redshift cluster, starting with a few hundred gigabytes of data and scaling to a petabyte or more, for under $1,000 per terabyte per year.
Try Amazon Redshift for free! If you've never created an Amazon Redshift cluster, you're eligible for a two month free trial of our dc1.large node. You get 750 hours per month for free, enough hours to continuously run one dc1.large node with 160GB of compressed SSD storage. You can also build clusters with multiple nodes to test larger data sets, which will consume your free hours more quickly. Once your two month free trial expires or your usage exceeds 750 hours per month, you can shut down your cluster, avoiding any charges, or keep it running at our standard On-Demand Rate . For more information, please see the free trial FAQ page .
Launch Cluster
Additional Information
Overview of Features
New Features
Subscribe to Announcements
Documentation
Getting Started
Management Guide
DB Developer Guide
Free Trial
Free Trials from ETL and BI Partne
Best Practices
Connecting to Clusters
Loading Data
Tutorial
Tuning Table Design


https://us-west-2.console.aws.amazon.com/redshift/home?region=us-west-2#launch-cluster:
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon Redshift
Clusters
Snapshots
Security
Parameter Groups
Reserved Nodes
Events
Connect Client
CLUSTER DETAILS
NODE CONFIGURATION
ADDITIONAL CONFIGURATION
REVIEW
Provide the details of your cluster. Fields marked with * are required.
Cluster Identifier*
my-e-commerce-dw
This is the unique key that identifies a cluster. This parameter is stored as a lowercase string. (e.g. my-dw-instance)
Database Name
ekart
Optional. A default database named dev is created for the cluster. Optionally, specify a custom database name (e.g. mydb) to create an additional database.
Database Port*
5439
Port number on which the database accepts connections.
Master User Name*
awsuser
Name of master user for your cluster. (e.g. awsuser)
Master User Password*
Password must contain 8 to 64 printable ASCII characters excluding: /, ", ', \, and @. It must contain 1 uppercase letter, 1 lowercase letter, and 1 number.
Confirm Password*
Confirm Master User Password.
Cancel
Continue


https://us-west-2.console.aws.amazon.com/redshift/home?region=us-west-2#launch-cluster:
AWS
Services
Edit
Tanmay Deshpande
Amazon Redshift
Clusters
Snapshots
Security
Parameter Groups
Reserved Nodes
Events
Connect Client
CLUSTER DETAILS
NODE CONFIGURATION
ADDITIONAL CONFIGURATION
REVIEW
Choose a number of nodes and Node Type below. Number of Compute Nodes is required for multi-node clusters.
Node Type
dc1.large
Specifies the compute, memory, storage, and I/O capacity of the cluster's nodes.
CPU
7 EC2 Compute Units (2 virtual cores) per node
Memory
15 GiB per node
Storage
160GB SSD storage per node
I/O Performance
Moderate
Cluster Type
Single Node
Number of Compute Nodes*
1
Single Node clusters consist of a single node which performs both leader and compute functions.
Maximum
1
Minimum
1
Cancel
Previous
Continue


https://us-west-2.console.aws.amazon.com/redshift/home?region=us-west-2#launch-cluster:
AWS
Services
Edit
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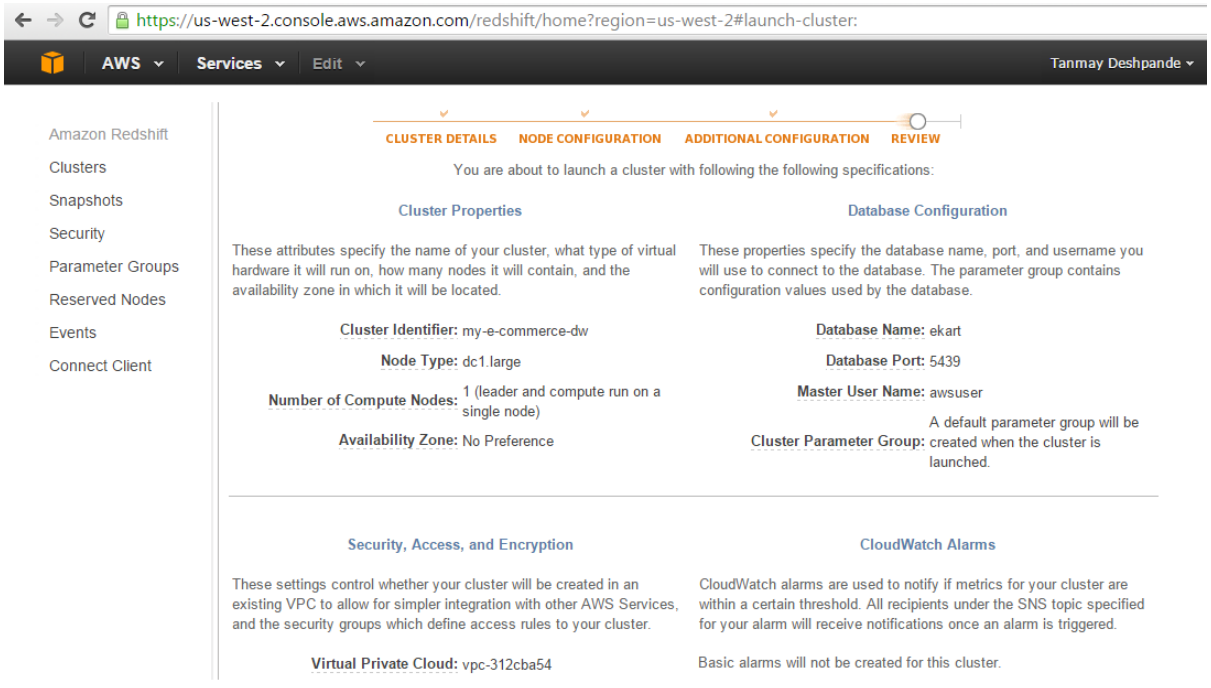
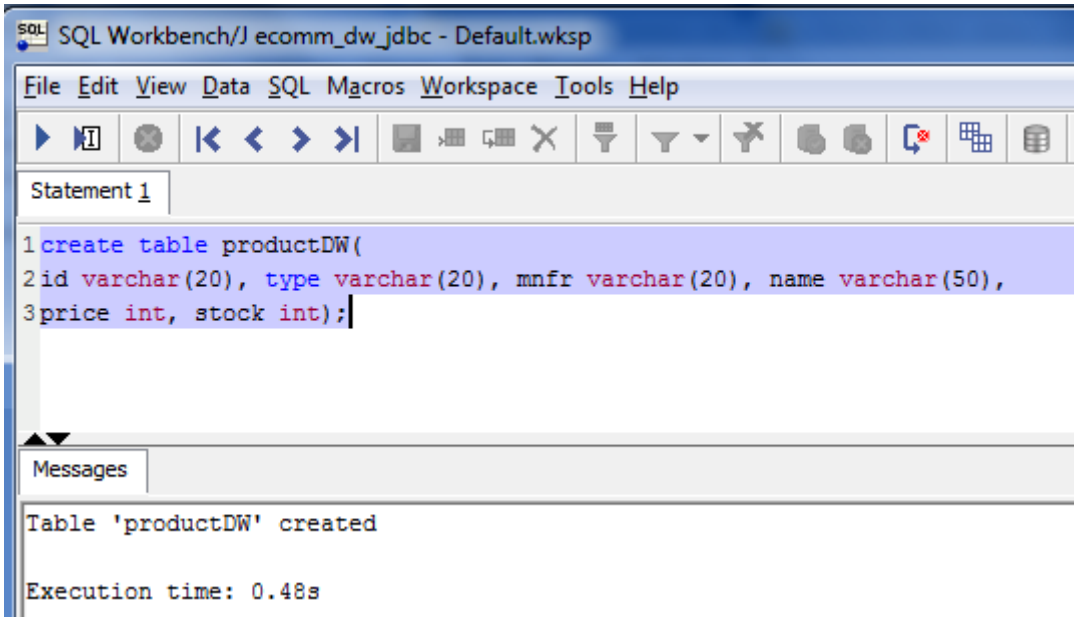
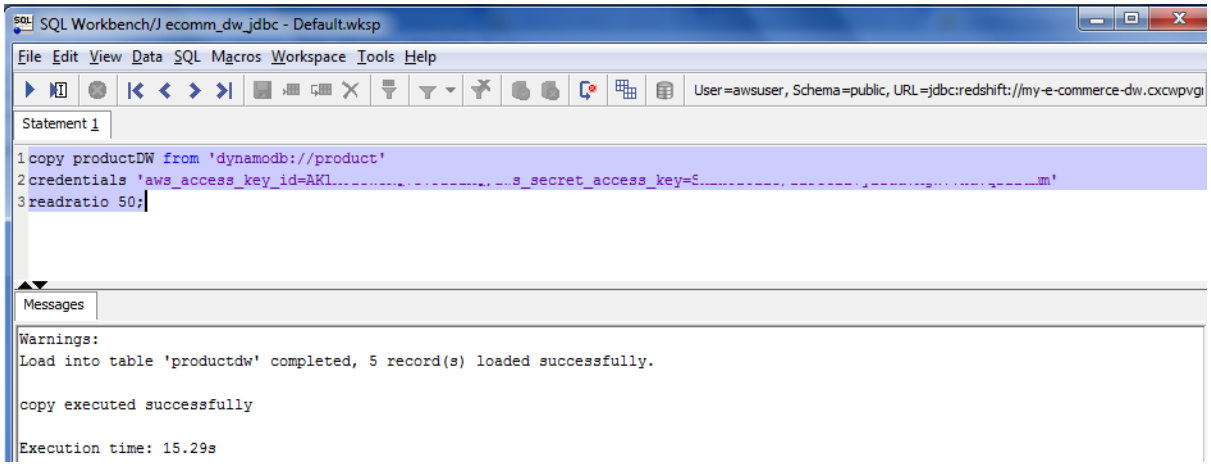
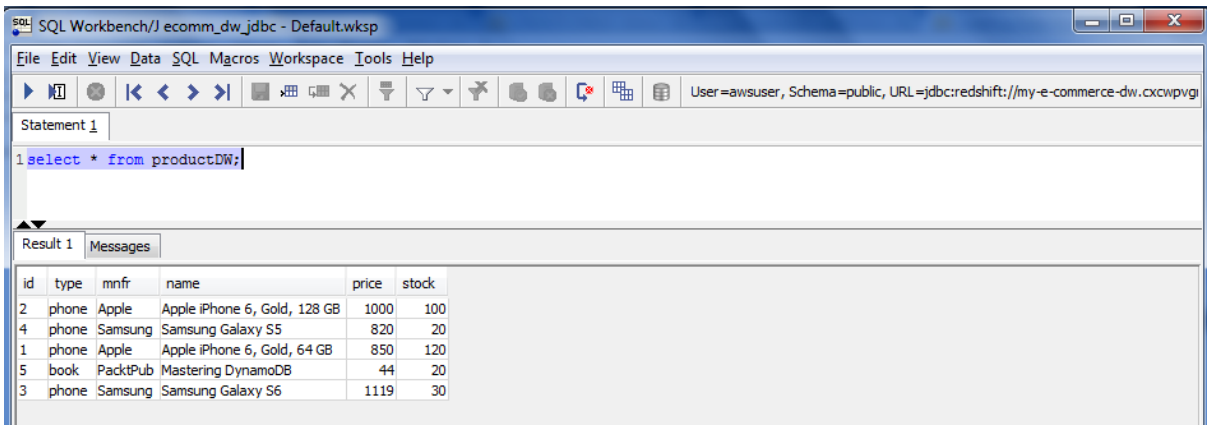
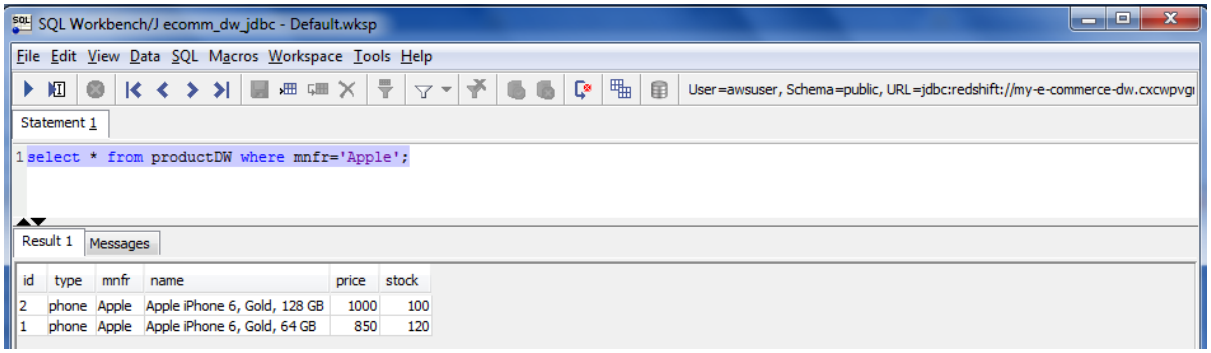
Amazon Redshift
Clusters
Snapshots
Security
Parameter Groups
Reserved Nodes
Events
Connect Client
Configure Networking Options:
Choose a VPC
Default VPC (vpc-312cba54)
The identifier of the VPC in which you want to create your cluster
Cluster Subnet Group
default
Selected Cluster Subnet Group may limit the choice of Availability Zones
Publicly Accessible
Yes
Select Yes if you want the cluster to be accessible from the public internet. Select No if you want it to be accessible only from within your private VPC network
Choose a Public IP Address
No
Select Yes if you want to select your own public IP address from a list of elastic IP (EIP) addresses that are already configured for your cluster's VPC. Select No if you want Amazon Redshift to provide an EIP for you instead.
Availability Zone
No Preference
The EC2 Availability Zone that the cluster will be created in.
Optionally, associate your cluster with one or more security groups.
VPC Security Groups
ElasticMapReduce-master (sg-40c90c24)
default (sg-aabf49ce)
ElasticMapReduce-slave (sg-41c90c25)
List of VPC Security Groups to associate with this cluster.
Optionally, create a basic alarm for this cluster.

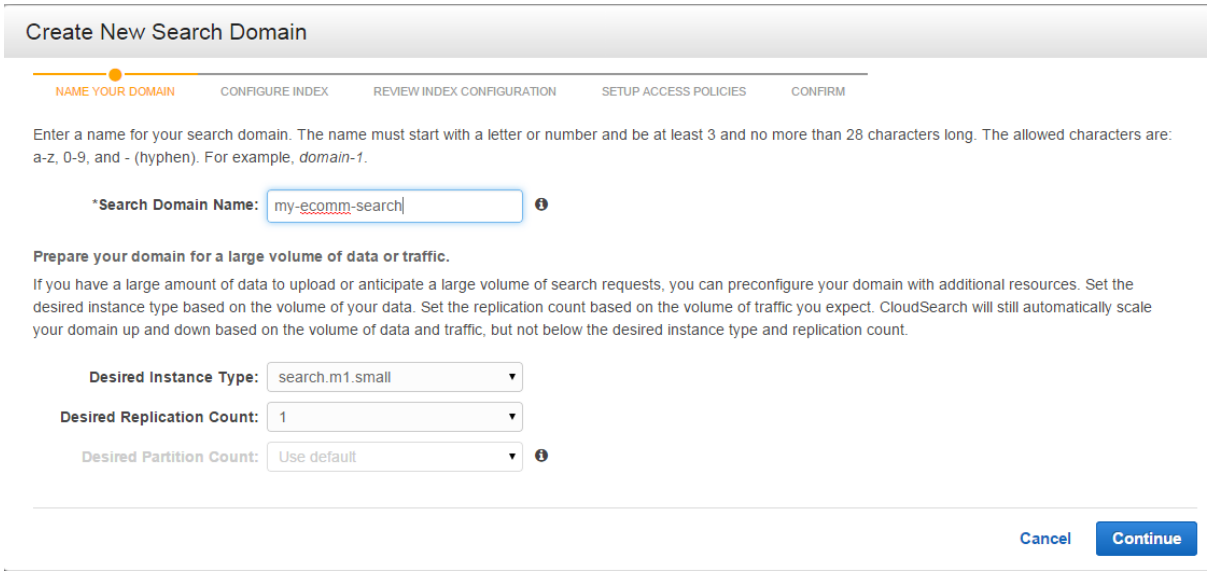

https://us-west-2.console.aws.amazon.com/redshift/home?region=us-west-2#launch-cluster:
AWS
Services
Edit
Tanmay Deshpande
Amazon Redshift
Clusters
Snapshots
Security
Parameter Groups
Reserved Nodes
Events
Connect Client
CLUSTER DETAILS
NODE CONFIGURATION
ADDITIONAL CONFIGURATION
REVIEW
You are about to launch a cluster with following the following specifications:
Cluster Properties
These attributes specify the name of your cluster, what type of virtual hardware it will run on, how many nodes it will contain, and the availability zone in which it will be located.
Cluster Identifier: my-e-commerce-dw
Node Type: dc1.large
Number of Compute Nodes: 1 (leader and compute run on a single node)
Availability Zone: No Preference
Database Configuration
These properties specify the database name, port, and username you will use to connect to the database. The parameter group contains configuration values used by the database.
Database Name: ekart
Database Port: 5439
Master User Name: awsuser
Cluster Parameter Group: A default parameter group will be created when the cluster is launched.
Security, Access, and Encryption
These settings control whether your cluster will be created in an existing VPC to allow for simpler integration with other AWS Services, and the security groups which define access rules to your cluster.
Virtual Private Cloud: vpc-312cba54
CloudWatch Alarms
CloudWatch alarms are used to notify if metrics for your cluster are within a certain threshold. All recipients under the SNS topic specified for your alarm will receive notifications once an alarm is triggered.
Basic alarms will not be created for this cluster.

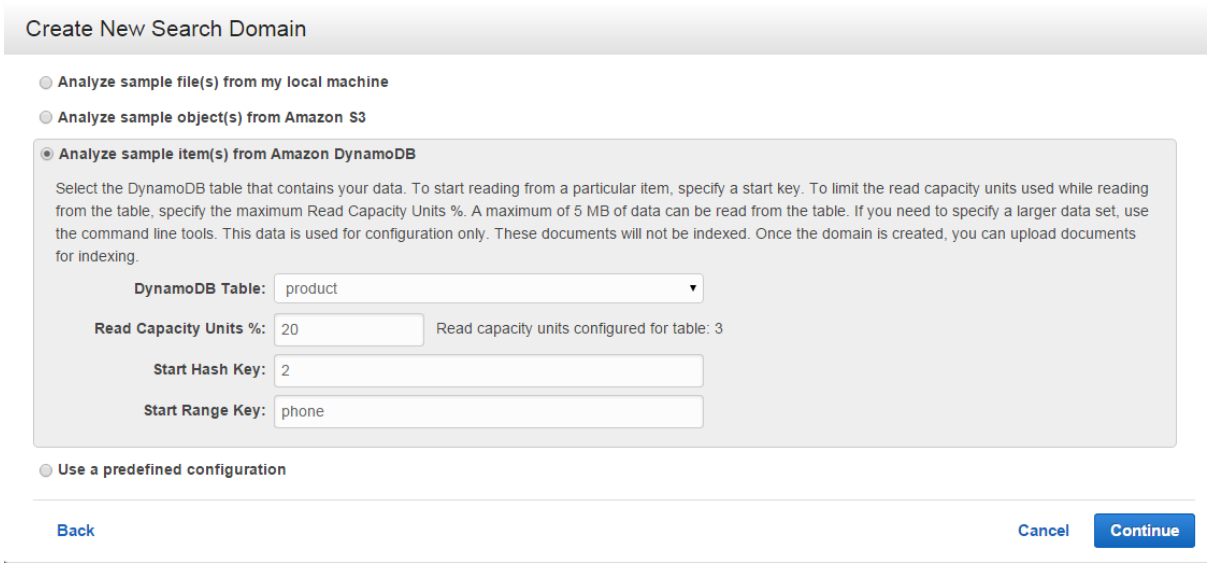

SQL Workbench/J ecomm_dw_jdbc - Default.wksp
File Edit View Data SQL Macros Workspace Tools Help
Statement 1
1 create table productDW(
2 id varchar(20), type varchar(20), mnfr varchar(20), name varchar(50),
3 price int, stock int);
Messages
Table 'productDW' created
Execution time: 0.48s


SQL Workbench/J ecomm_dw_jdbc - Default.wksp
File Edit View Data SQL Macros Workspace Tools Help
User=awsuser, Schema=public, URL=jdbc:redshift://my-e-commerce-dw.cxcwpvg
Statement 1
1 copy productDW from 'dynamodb://product'
2 credentials 'aws_access_key_id=AKI
3 readratio 50;
Messages
Warnings:
Load into table 'productdw' completed, 5 record(s) loaded successfully.
copy executed successfully
Execution time: 15.29s


SQL Workbench/J ecomm_dw_jdbc - Default.wksp
File Edit View Data SQL Macros Workspace Tools Help
User=awsuser, Schema=public, URL=jdbc:redshift://my-e-commerce-dw.cxcwpvg
Statement 1
1 select * from productDW;
Result 1
Messages
id type mnfr name price stock
2 phone Apple Apple iPhone 6, Gold, 128 GB 1000 100
4 phone Samsung Samsung Galaxy S5 820 20
1 phone Apple Apple iPhone 6, Gold, 64 GB 850 120
5 book PacktPub Mastering DynamoDB 44 20
3 phone Samsung Samsung Galaxy S6 1119 30


SQL Workbench/J ecomm_dw_jdbc - Default.wksp
File Edit View Data SQL Macros Workspace Tools Help
User=awsuser, Schema=public, URL=jdbc:redshift://my-e-commerce-dw.cxcwpvgr
Statement 1
1 select * from productDW where mnfr='Apple';
Result 1
Messages
id type mnfr name price stock
2 phone Apple Apple iPhone 6, Gold, 128 GB 1000 100
1 phone Apple Apple iPhone 6, Gold, 64 GB 850 120


Create New Search Domain
NAME YOUR DOMAIN
CONFIGURE INDEX
REVIEW INDEX CONFIGURATION
SETUP ACCESS POLICIES
CONFIRM
Enter a name for your search domain. The name must start with a letter or number and be at least 3 and no more than 28 characters long. The allowed characters are: a-z, 0-9, and - (hyphen). For example, domain-1.
*Search Domain Name: my-ecomm-search
Prepare your domain for a large volume of data or traffic.
If you have a large amount of data to upload or anticipate a large volume of search requests, you can preconfigure your domain with additional resources. Set the desired instance type based on the volume of your data. Set the replication count based on the volume of traffic you expect. CloudSearch will still automatically scale your domain up and down based on the volume of data and traffic, but not below the desired instance type and replication count.
Desired Instance Type: search.m1.small
Desired Replication Count: 1
Desired Partition Count: Use default
Cancel
Continue


Create New Search Domain
Analyze sample file(s) from my local machine
Analyze sample object(s) from Amazon S3
Analyze sample item(s) from Amazon DynamoDB
Select the DynamoDB table that contains your data. To start reading from a particular item, specify a start key. To limit the read capacity units used while reading from the table, specify the maximum Read Capacity Units %. A maximum of 5 MB of data can be read from the table. If you need to specify a larger data set, use the command line tools. This data is used for configuration only. These documents will not be indexed. Once the domain is created, you can upload documents for indexing.
DynamoDB Table: product
Read Capacity Units %: 20
Read capacity units configured for table: 3
Start Hash Key: 2
Start Range Key: phone
Use a predefined configuration
Back
Cancel
Continue

Create New Search Domain

NAME YOUR DOMAIN · CONFIGURE INDEX · REVIEW INDEX CONFIGURATION · SETUP ACCESS POLICIES · CONFIRM

The suggested index configuration is shown below. You can edit these fields or add additional fields. Click **Continue** when you are finished making changes.

Suggested Index Field Configuration — Re-configure Index

Name	Type	Search	Facet	Return	Sort	Highlight	Analysis Scheme	Default Value	Source Field	Remove
id	int	☑	☑	☑	☑				[add]	⊗
mnfr	text	☑		☑	☑	☑	English		[add]	⊗
name	text	☑		☑	☑	☑	English		[add]	⊗
price	int	☑	☑	☑	☑				[add]	⊗
stock	int	☑	☑	☑	☑				[add]	⊗
type	text	☑		☑	☑	☑	English		[add]	⊗

Back · Cancel · Continue

Create New Search Domain

NAME YOUR DOMAIN · CONFIGURE INDEX · REVIEW INDEX CONFIGURATION · SETUP ACCESS POLICIES · CONFIRM

To authorize or block IP addresses, add one or more access policy rules. You can always access all services through the console, regardless of the rules defined here.

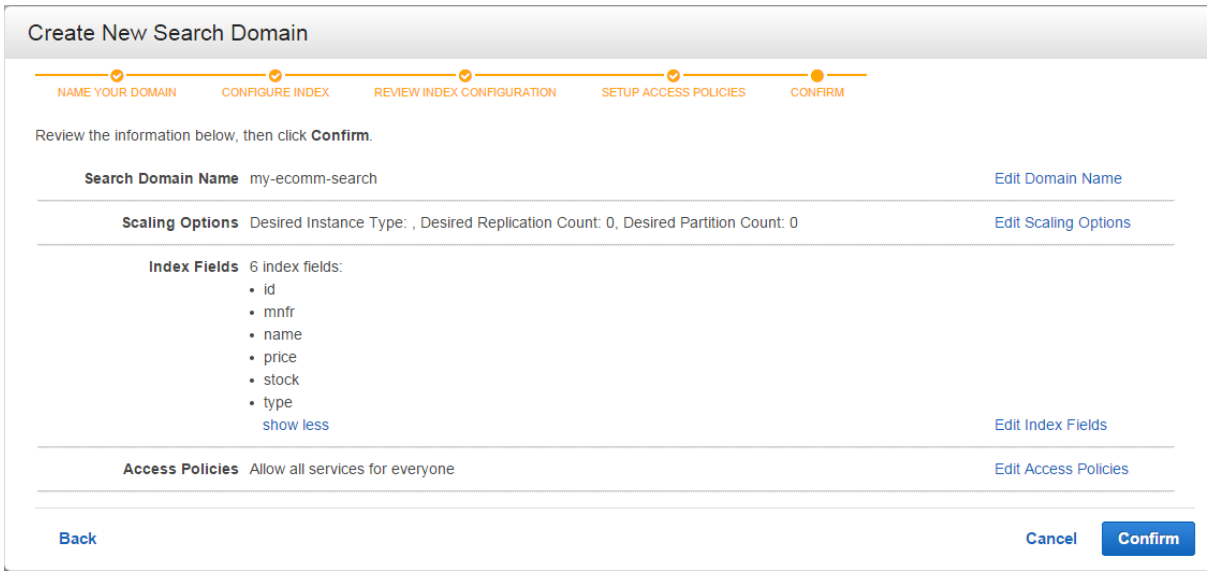
Set my policy to:

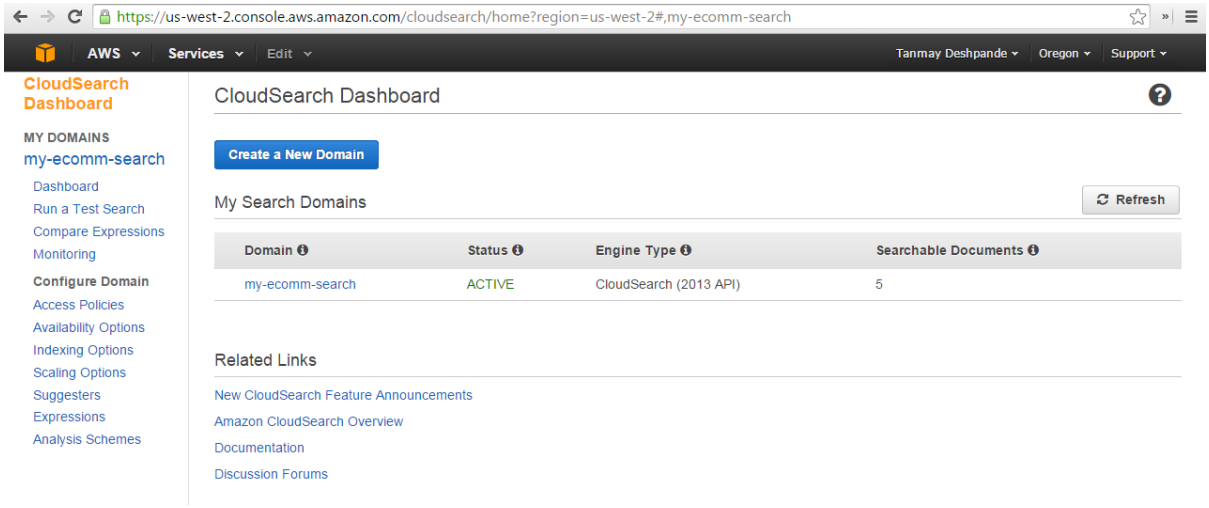
- Search and Suggester service: Allow all. Document Service: Account owner only.
- Allow open access to all services (not recommended because anyone can upload documents)
- Allow access to all services from specific IP(s)
- Deny access to all services (except through the console or by account owner)

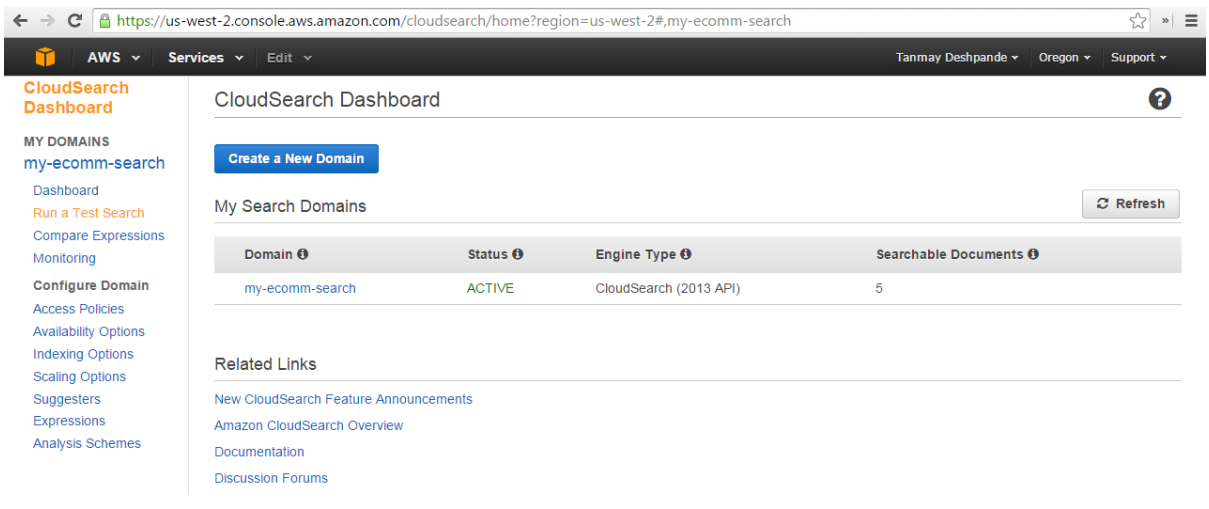
Current Policy:

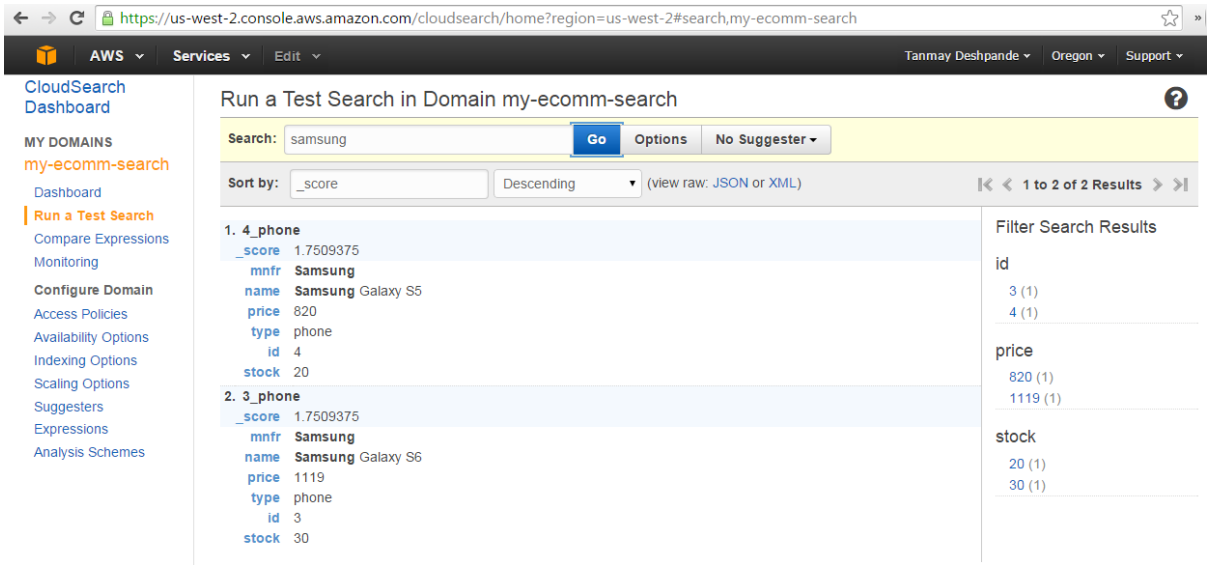
```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "AWS": [
          "*"
        ]
```

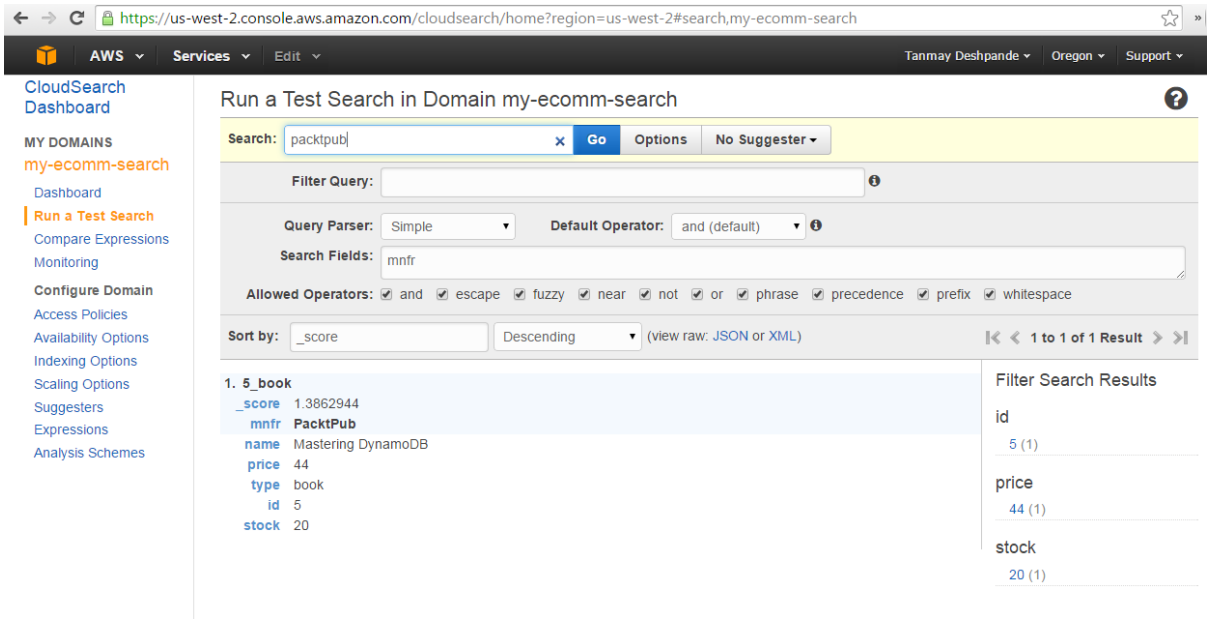
Back · Cancel · Continue

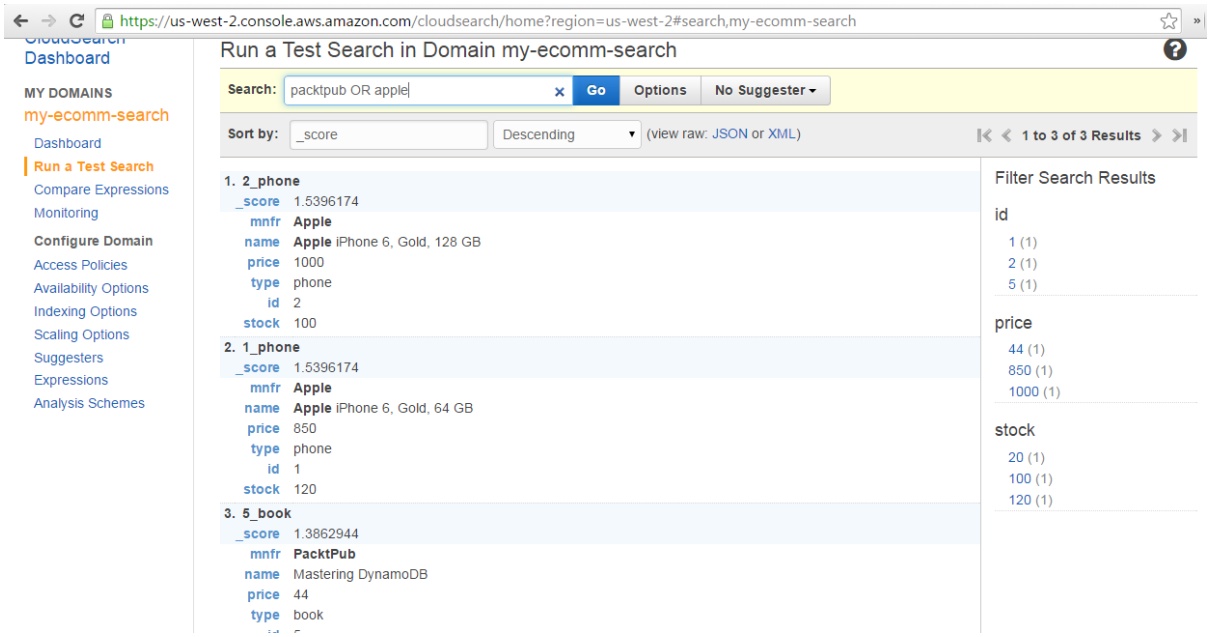

Create New Search Domain
NAME YOUR DOMAIN
CONFIGURE INDEX
REVIEW INDEX CONFIGURATION
SETUP ACCESS POLICIES
CONFIRM
Review the information below, then click Confirm.
Search Domain Name
my-ecomm-search
Edit Domain Name
Scaling Options
Desired Instance Type: , Desired Replication Count: 0, Desired Partition Count: 0
Edit Scaling Options
Index Fields
6 index fields:
id
mnfr
name
price
stock
type
show less
Edit Index Fields
Access Policies
Allow all services for everyone
Edit Access Policies
Back
Cancel
Confirm


https://us-west-2.console.aws.amazon.com/cloudsearch/home?region=us-west-2#,my-ecomm-search
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
CloudSearch Dashboard
MY DOMAINS
my-ecomm-search
Dashboard
Run a Test Search
Compare Expressions
Monitoring
Configure Domain
Access Policies
Availability Options
Indexing Options
Scaling Options
Suggesters
Expressions
Analysis Schemes
CloudSearch Dashboard
Create a New Domain
My Search Domains
Refresh
Domain
Status
Engine Type
Searchable Documents
my-ecomm-search
ACTIVE
CloudSearch (2013 API)
5
Related Links
New CloudSearch Feature Announcements
Amazon CloudSearch Overview
Documentation
Discussion Forums

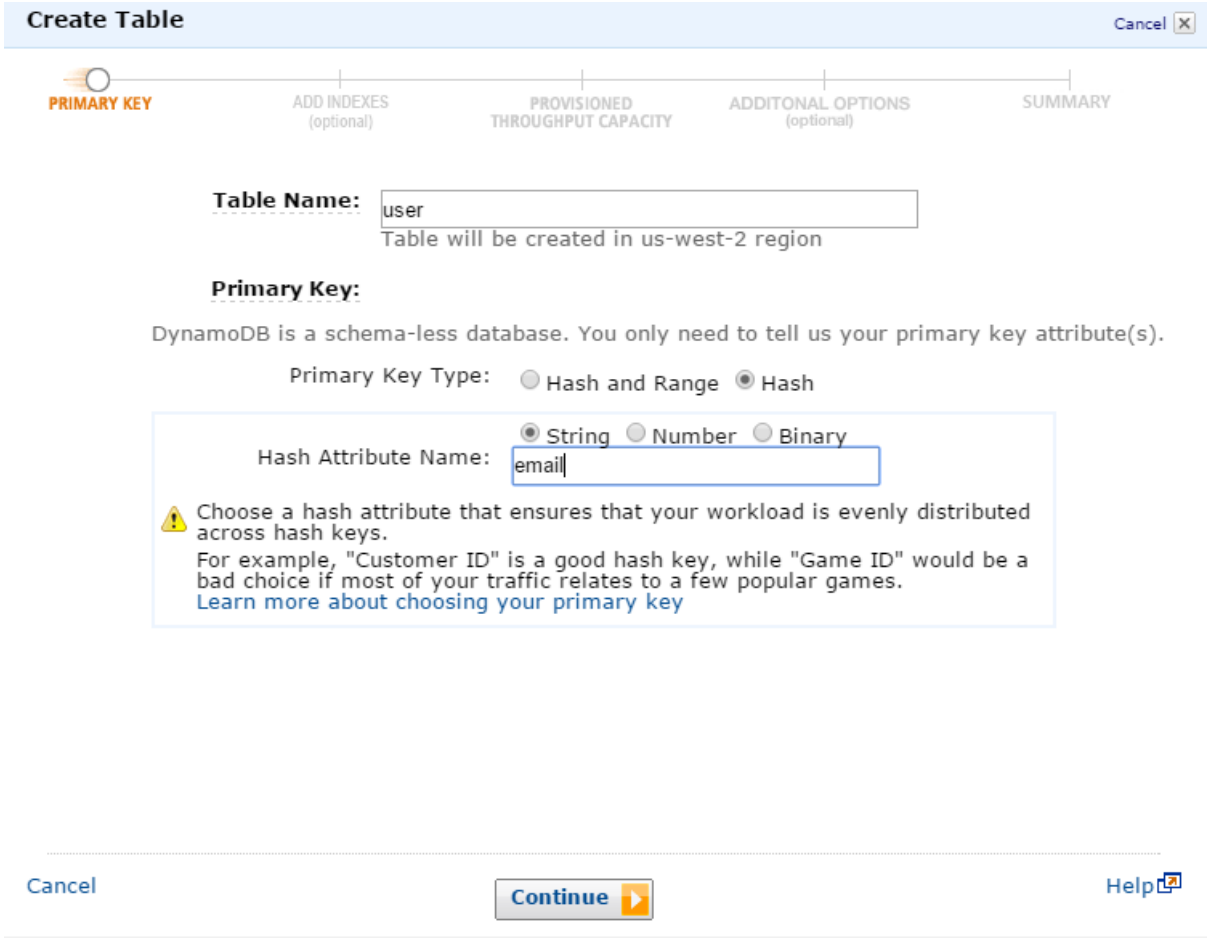

https://us-west-2.console.aws.amazon.com/cloudsearch/home?region=us-west-2#,my-ecomm-search
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
CloudSearch Dashboard
MY DOMAINS
my-ecomm-search
Dashboard
Run a Test Search
Compare Expressions
Monitoring
Configure Domain
Access Policies
Availability Options
Indexing Options
Scaling Options
Suggesters
Expressions
Analysis Schemes
CloudSearch Dashboard
Create a New Domain
My Search Domains
Refresh
Domain
Status
Engine Type
Searchable Documents
my-ecomm-search
ACTIVE
CloudSearch (2013 API)
5
Related Links
New CloudSearch Feature Announcements
Amazon CloudSearch Overview
Documentation
Discussion Forums

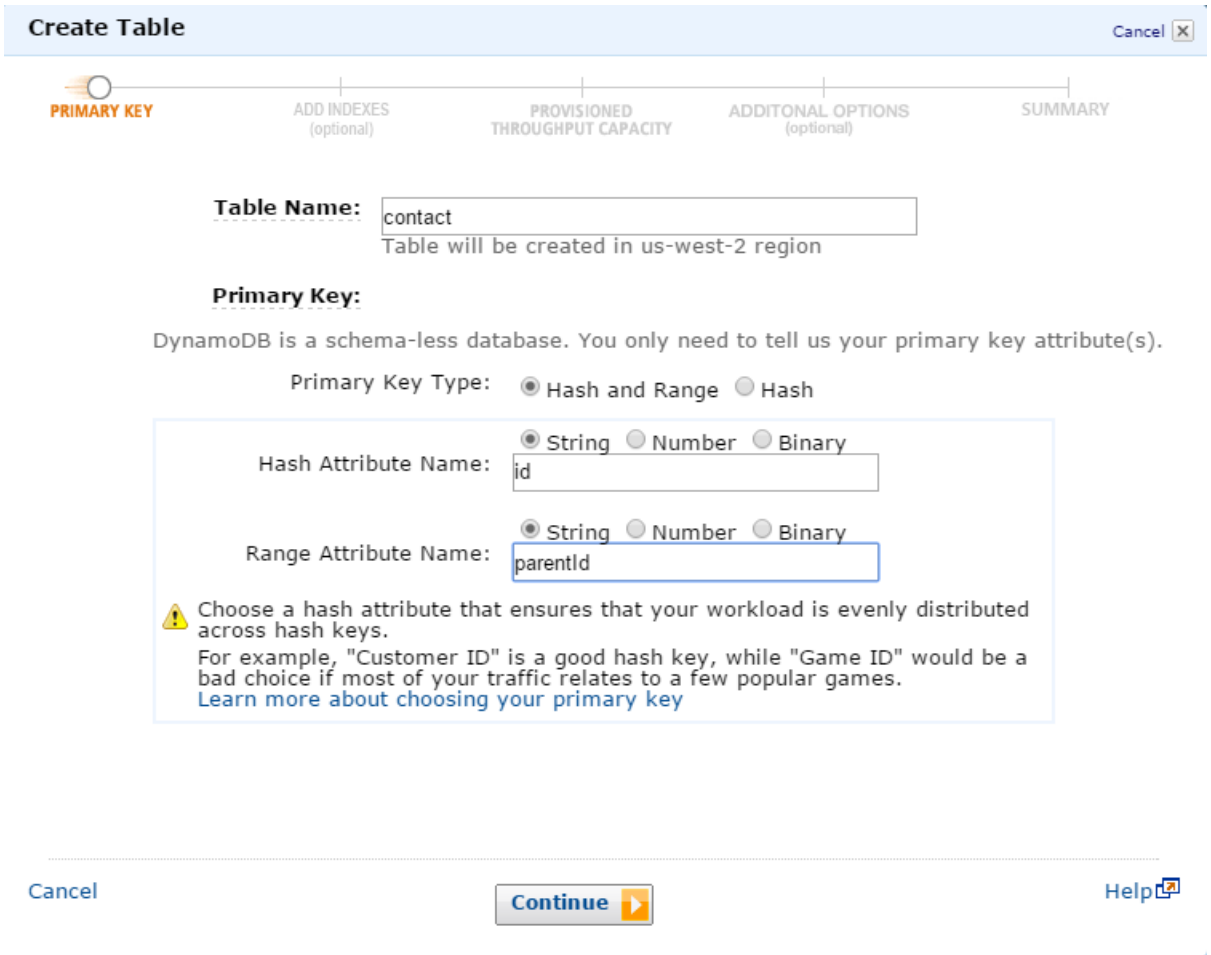

https://us-west-2.console.aws.amazon.com/cloudsearch/home?region=us-west-2#search,my-ecomm-search
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
CloudSearch Dashboard
MY DOMAINS
my-ecomm-search
Dashboard
Run a Test Search
Compare Expressions
Monitoring
Configure Domain
Access Policies
Availability Options
Indexing Options
Scaling Options
Suggesters
Expressions
Analysis Schemes
Run a Test Search in Domain my-ecomm-search
Search: samsung
Go
Options
No Suggester
Sort by: _score
Descending
(view raw: JSON or XML)
1 to 2 of 2 Results
1. 4_phone
_score 1.7509375
mnfr Samsung
name Samsung Galaxy S5
price 820
type phone
id 4
stock 20
2. 3_phone
_score 1.7509375
mnfr Samsung
name Samsung Galaxy S6
price 1119
type phone
id 3
stock 30
Filter Search Results
id
3 (1)
4 (1)
price
820 (1)
1119 (1)
stock
20 (1)
30 (1)

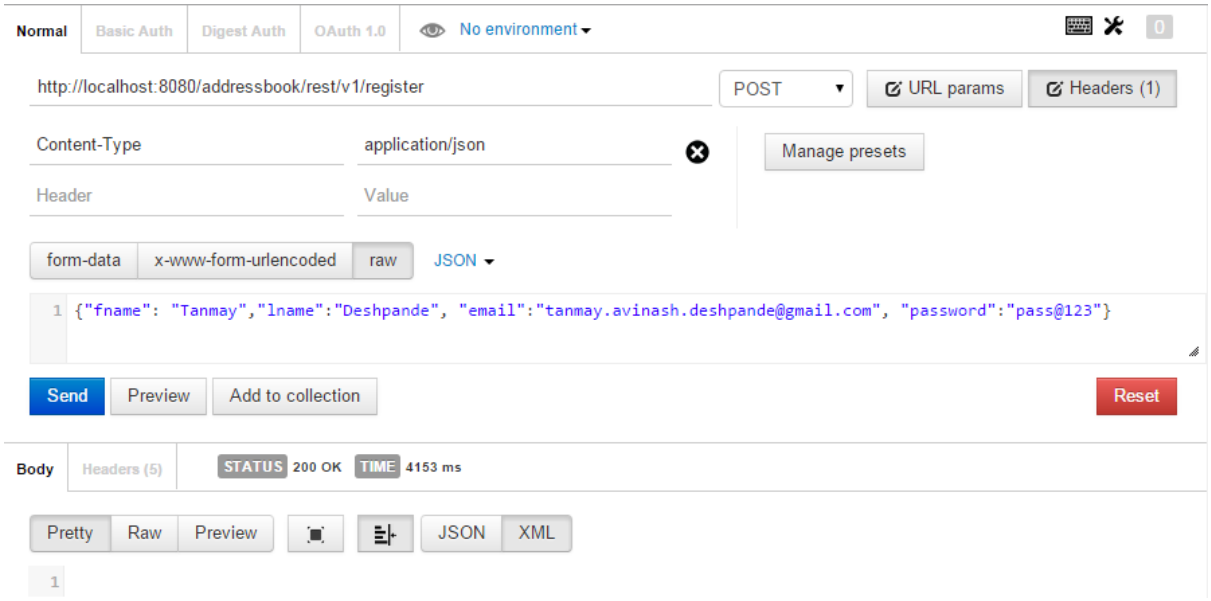

https://us-west-2.console.aws.amazon.com/cloudsearch/home?region=us-west-2#search,my-ecomm-search
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
CloudSearch Dashboard
MY DOMAINS
my-ecomm-search
Dashboard
Run a Test Search
Compare Expressions
Monitoring
Configure Domain
Access Policies
Availability Options
Indexing Options
Scaling Options
Suggesters
Expressions
Analysis Schemes
Run a Test Search in Domain my-ecomm-search
Search: packtpub
Go
Options
No Suggester
Filter Query:
Query Parser: Simple
Default Operator: and (default)
Search Fields: mnfr
Allowed Operators: and escape fuzzy near not or phrase precedence prefix whitespace
Sort by: _score
Descending
(view raw: JSON or XML)
1 to 1 of 1 Result
1. 5_book
_score 1.3862944
mnfr PacktPub
name Mastering DynamoDB
price 44
type book
id 5
stock 20
Filter Search Results
id
5 (1)
price
44 (1)
stock
20 (1)

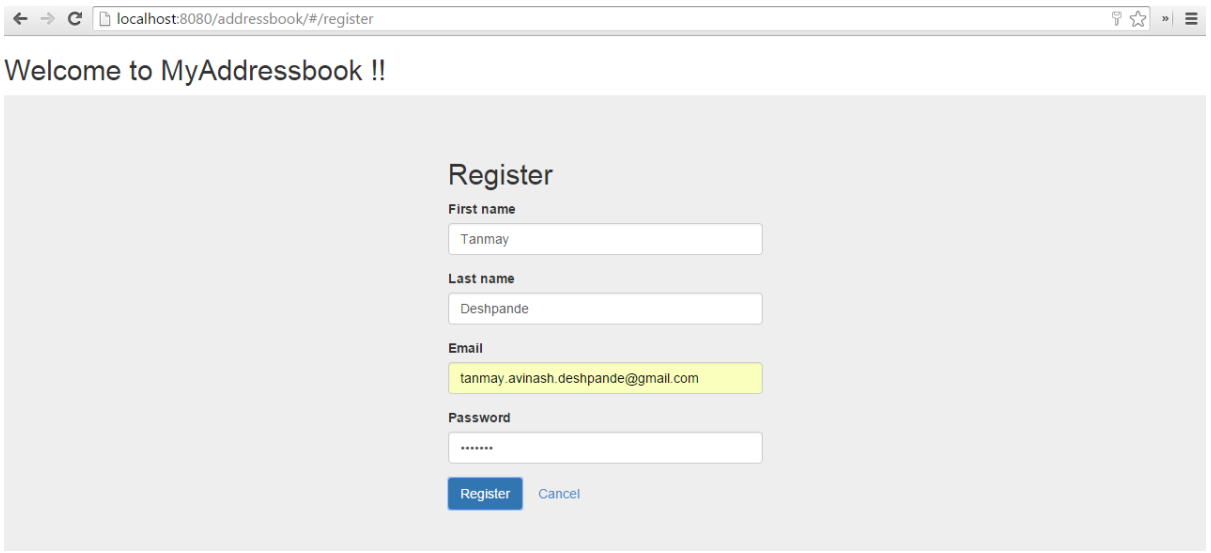

https://us-west-2.console.aws.amazon.com/cloudsearch/home?region=us-west-2#search,my-ecomm-search
Dashboard
MY DOMAINS
my-ecomm-search
Dashboard
Run a Test Search
Compare Expressions
Monitoring
Configure Domain
Access Policies
Availability Options
Indexing Options
Scaling Options
Suggesters
Expressions
Analysis Schemes
Run a Test Search in Domain my-ecomm-search
Search: packtpub OR apple
Go
Options
No Suggester
Sort by: _score
Descending
(view raw: JSON or XML)
1 to 3 of 3 Results
1. 2_phone
_score 1.5396174
mnfr Apple
name Apple iPhone 6, Gold, 128 GB
price 1000
type phone
id 2
stock 100
2. 1_phone
_score 1.5396174
mnfr Apple
name Apple iPhone 6, Gold, 64 GB
price 850
type phone
id 1
stock 120
3. 5_book
_score 1.3862944
mnfr PacktPub
name Mastering DynamoDB
price 44
type book
Filter Search Results
id
1 (1)
2 (1)
5 (1)
price
44 (1)
850 (1)
1000 (1)
stock
20 (1)
100 (1)
120 (1)

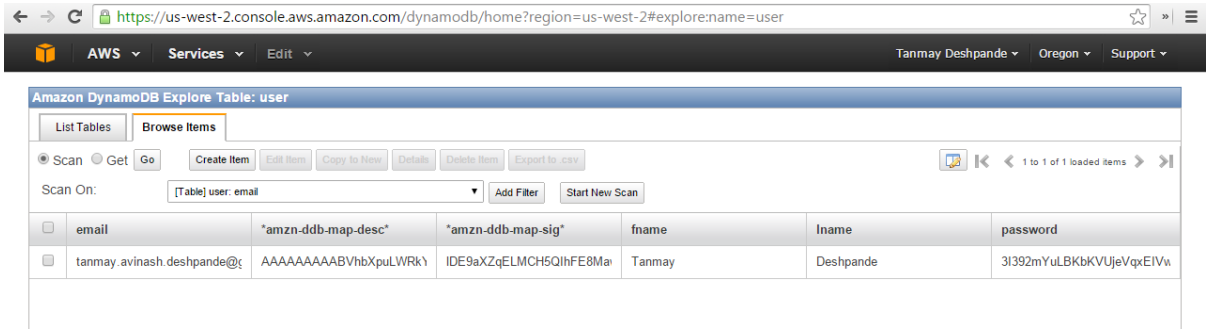
Chapter 9

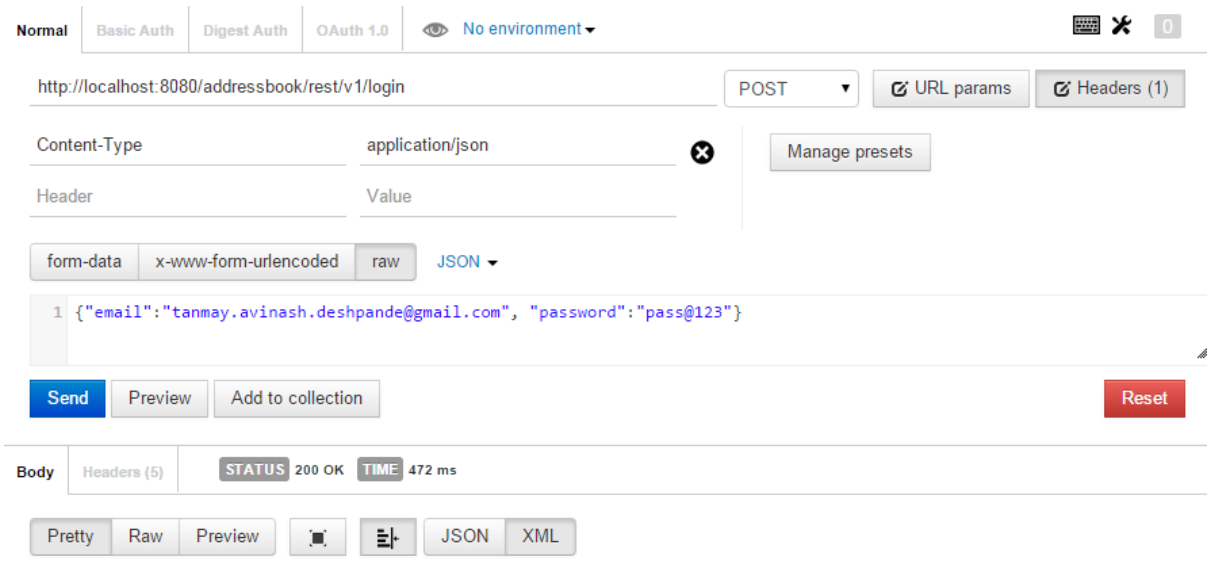

Create Table
Cancel
PRIMARY KEY
ADD INDEXES (optional)
PROVISIONED THROUGHPUT CAPACITY
ADDITONAL OPTIONS (optional)
SUMMARY
Table Name:
user
Table will be created in us-west-2 region
Primary Key:
DynamoDB is a schema-less database. You only need to tell us your primary key attribute(s).
Primary Key Type:
Hash and Range
Hash
String
Number
Binary
Hash Attribute Name:
email
Choose a hash attribute that ensures that your workload is evenly distributed across hash keys.
For example, "Customer ID" is a good hash key, while "Game ID" would be a bad choice if most of your traffic relates to a few popular games.
Learn more about choosing your primary key
Cancel
Continue
Help

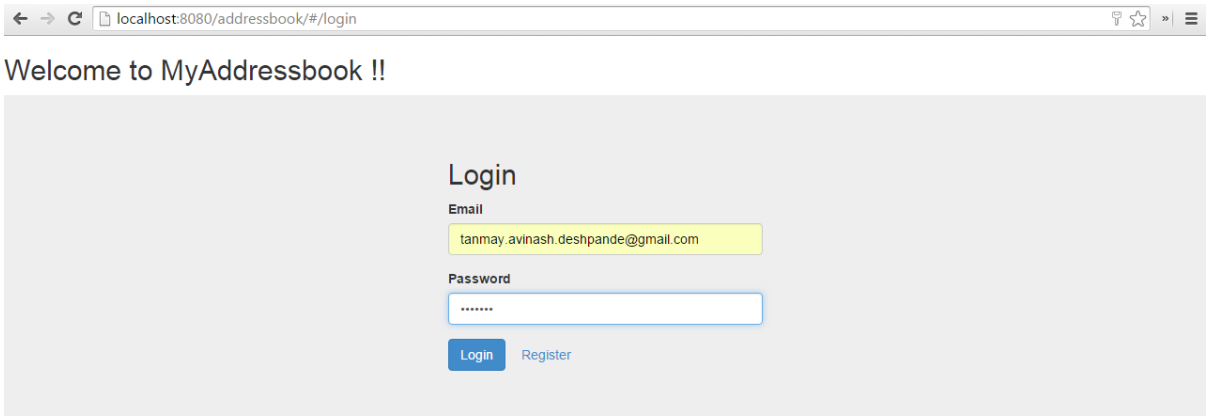

Create Table
Cancel
PRIMARY KEY
ADD INDEXES (optional)
PROVISIONED THROUGHPUT CAPACITY
ADDITONAL OPTIONS (optional)
SUMMARY
Table Name:
contact
Table will be created in us-west-2 region
Primary Key:
DynamoDB is a schema-less database. You only need to tell us your primary key attribute(s).
Primary Key Type:
Hash and Range
Hash
String
Number
Binary
Hash Attribute Name:
id
Range Attribute Name:
parentId
Choose a hash attribute that ensures that your workload is evenly distributed across hash keys.
For example, "Customer ID" is a good hash key, while "Game ID" would be a bad choice if most of your traffic relates to a few popular games.
Learn more about choosing your primary key
Cancel
Continue
Help

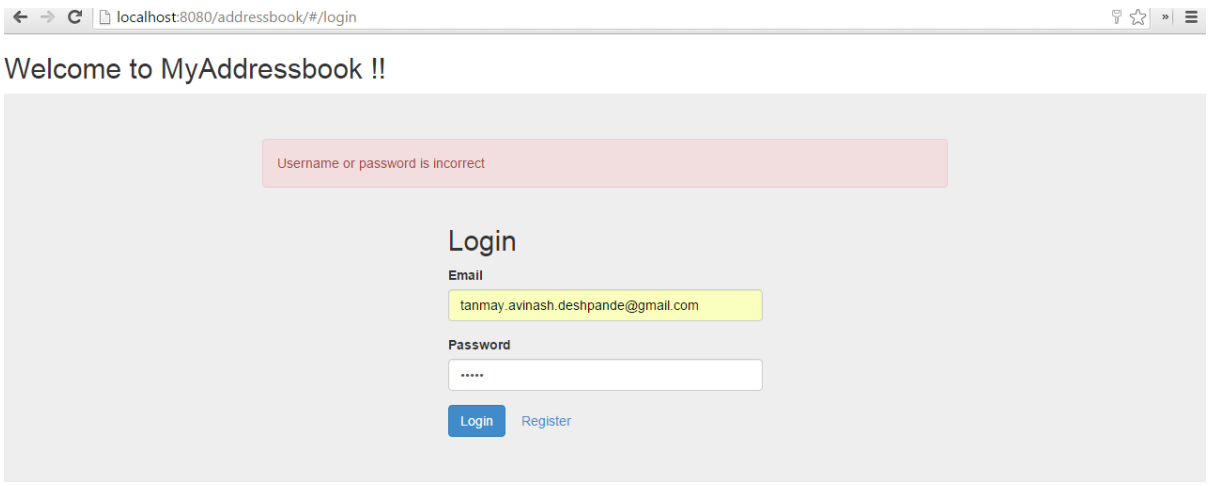

Normal
Basic Auth
Digest Auth
OAuth 1.0
No environment
http://localhost:8080/addressbook/rest/v1/register
POST
URL params
Headers (1)
Content-Type
application/json
Manage presets
Header
Value
form-data
x-www-form-urlencoded
raw
JSON
{"fname": "Tanmay","lname":"Deshpande", "email":"tanmay.avinash.deshpande@gmail.com", "password":"pass@123"}
Send
Preview
Add to collection
Reset
Body
Headers (5)
STATUS 200 OK
TIME 4153 ms
Pretty
Raw
Preview
JSON
XML

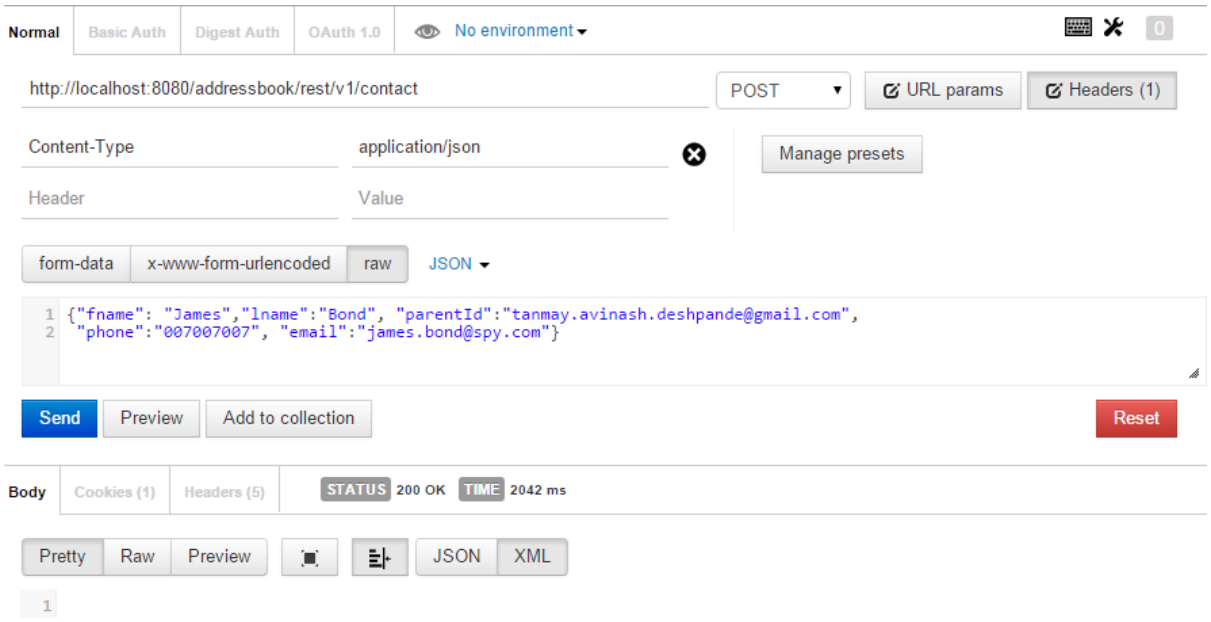

localhost:8080/addressbook/#/register
Welcome to MyAddressbook !!
Register
First name
Tanmay
Last name
Deshpande
Email
tanmay.avinash.deshpande@gmail.com
Password
Register
Cancel

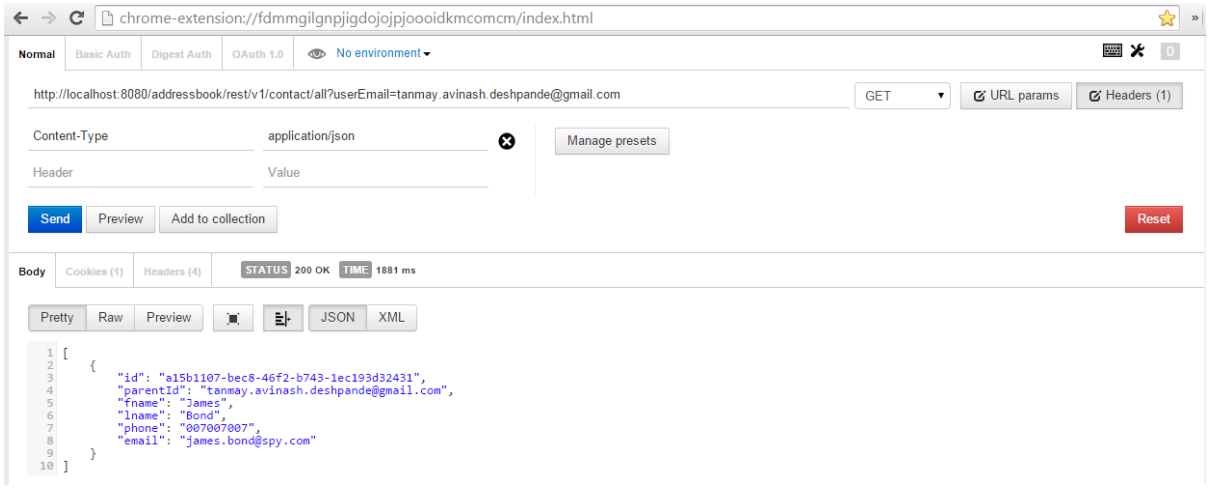

https://us-west-2.console.aws.amazon.com/dynamodb/home?region=us-west-2#explore:name=user
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Amazon DynamoDB Explore Table: user
List Tables
Browse Items
Scan
Get
Go
Create Item
Edit Item
Copy to New
Details
Delete Item
Export to .csv
1 to 1 of 1 loaded items
Scan On:
[Table] user: email
Add Filter
Start New Scan
email
amzn-ddb-map-desc
amzn-ddb-map-sig
fname
lname
password
tanmay.avinash.deshpande@g
AAAAAAAAABVhbXpuLWRk
IDE9aXZqELMCH5QIhFE8Ma
Tanmay
Deshpande
3l392mYuLBKbKVUjeVqxEIVw

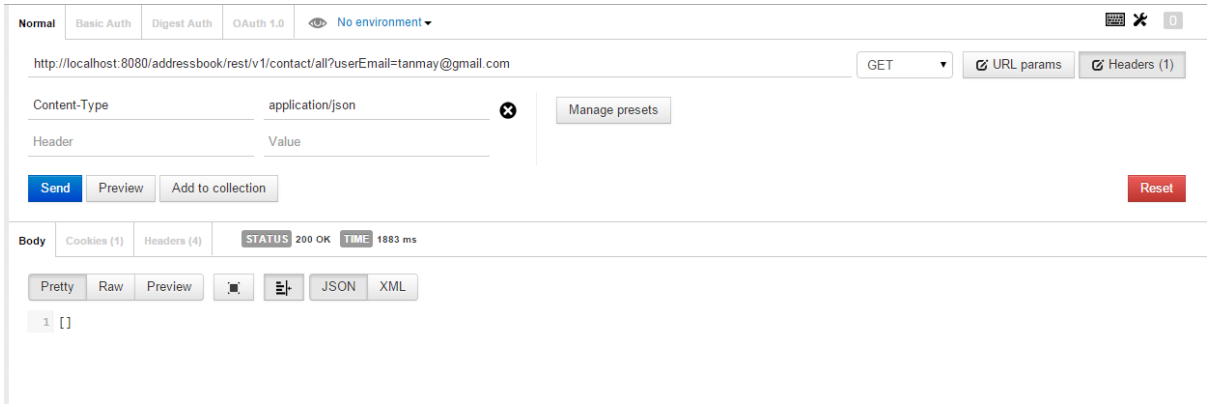

Normal
Basic Auth
Digest Auth
OAuth 1.0
No environment
http://localhost:8080/addressbook/rest/v1/login
POST
URL params
Headers (1)
Content-Type
application/json
Manage presets
Header
Value
form-data
x-www-form-urlencoded
raw
JSON
1 {"email":"tanmay.avinash.deshpande@gmail.com", "password":"pass@123"}
Send
Preview
Add to collection
Reset
Body
Headers (5)
STATUS 200 OK
TIME 472 ms
Pretty
Raw
Preview
JSON
XML

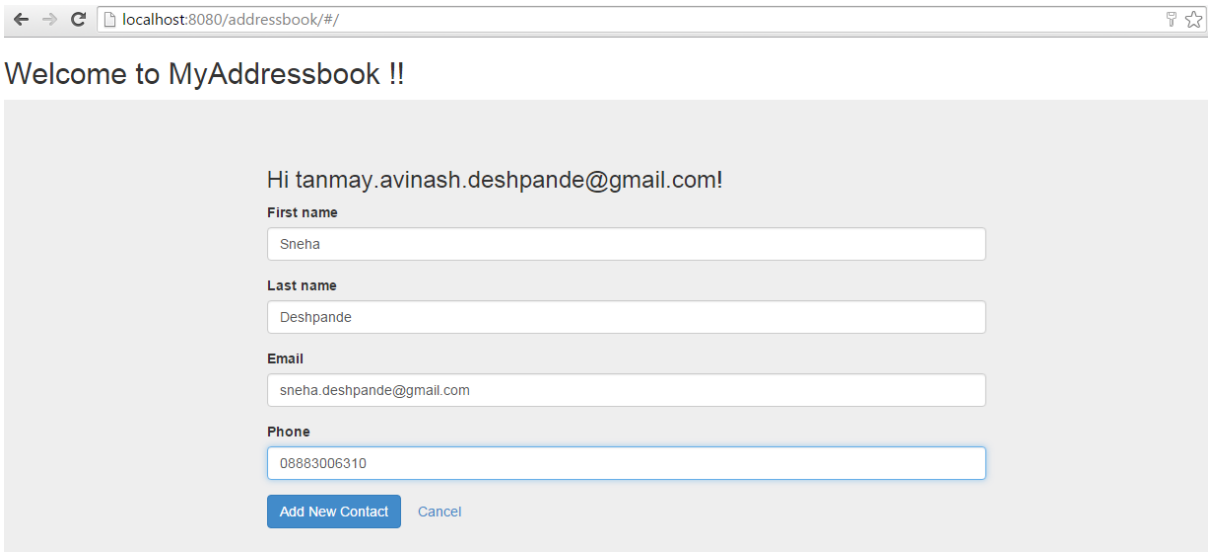

localhost:8080/addressbook/#/login
Welcome to MyAddressbook !!
Login
Email
tanmay.avinash.deshpande@gmail.com
Password
Login
Register

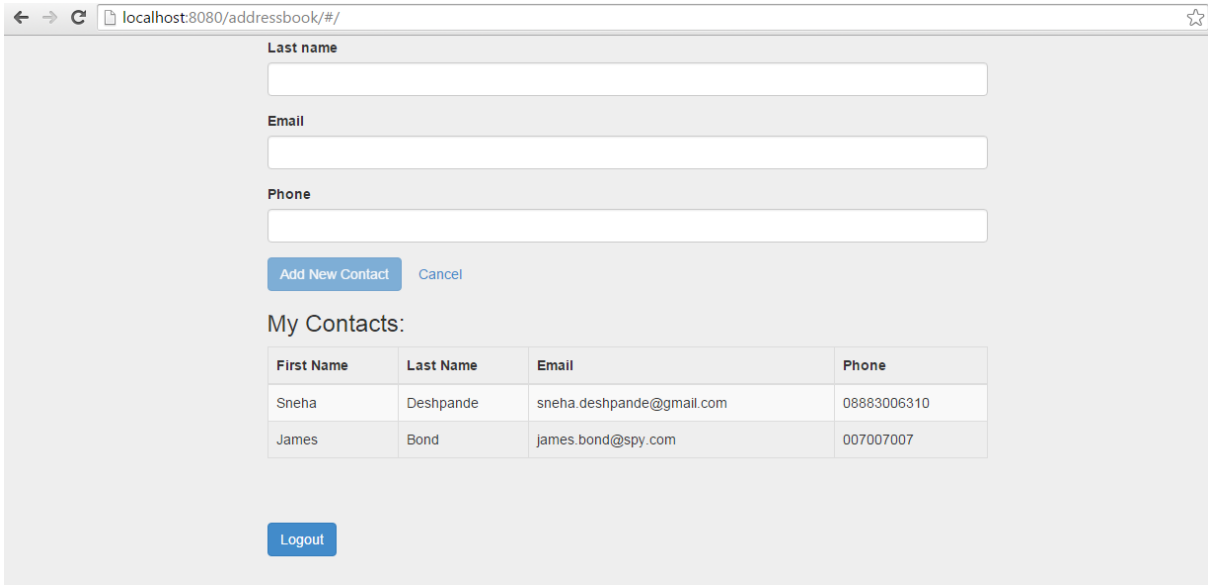

localhost:8080/addressbook/#/login
Welcome to MyAddressbook !!
Username or password is incorrect
Login
Email
tanmay.avinash.deshpande@gmail.com
Password
Login
Register


Normal
Basic Auth
Digest Auth
OAuth 1.0
No environment
http://localhost:8080/addressbook/rest/v1/contact
POST
URL params
Headers (1)
Content-Type
application/json
Manage presets
Header
Value
form-data
x-www-form-urlencoded
raw
JSON
{"fname": "James","lname":"Bond", "parentId":"tanmay.avinash.deshpande@gmail.com",
"phone":"007007007", "email":"james.bond@spy.com"}
Send
Preview
Add to collection
Reset
Body
Cookies (1)
Headers (5)
STATUS 200 OK
TIME 2042 ms
Pretty
Raw
Preview
JSON
XML

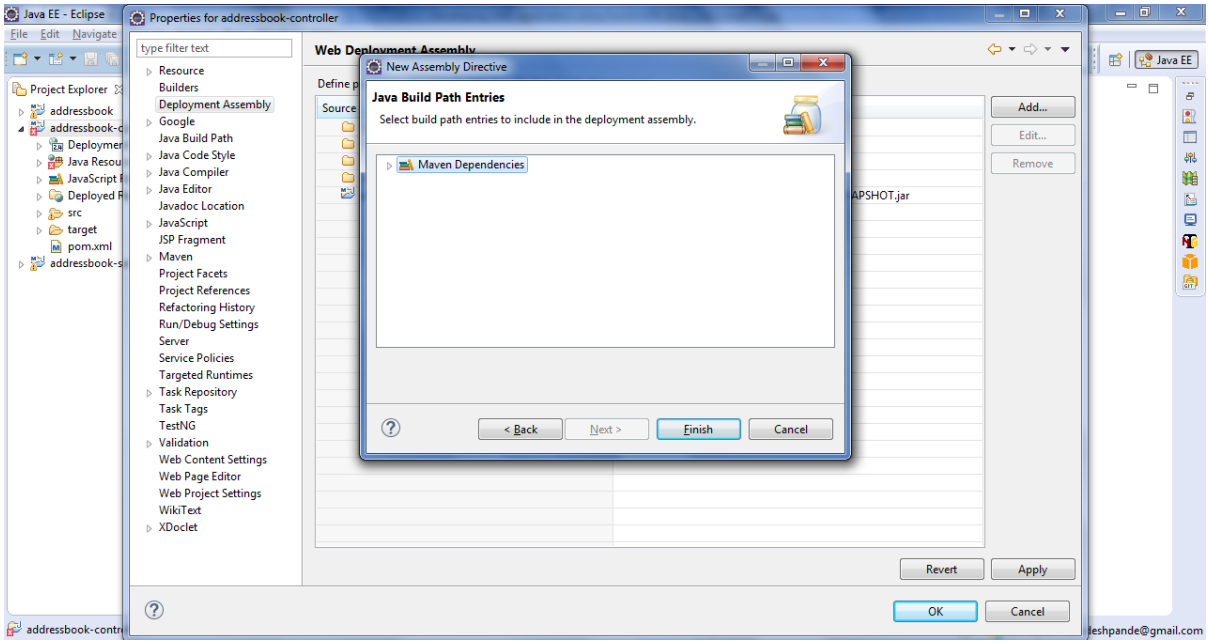

chrome-extension://fdmmgilgnpjigdojojpjoooidkmcomcm/index.html
Normal
Basic Auth
Digest Auth
OAuth 1.0
No environment
http://localhost:8080/addressbook/rest/v1/contact/all?userEmail=tanmay.avinash.deshpande@gmail.com
GET
URL params
Headers (1)
Content-Type
application/json
Manage presets
Header
Value
Send
Preview
Add to collection
Reset
Body
Cookies (1)
Headers (4)
STATUS 200 OK
TIME 1881 ms
Pretty
Raw
Preview
JSON
XML
[
{
"id": "a15b1107-bec8-46f2-b743-1ec193d32431",
"parentId": "tanmay.avinash.deshpande@gmail.com",
"fname": "James",
"lname": "Bond",
"phone": "007007007",
"email": "james.bond@spy.com"
}
]

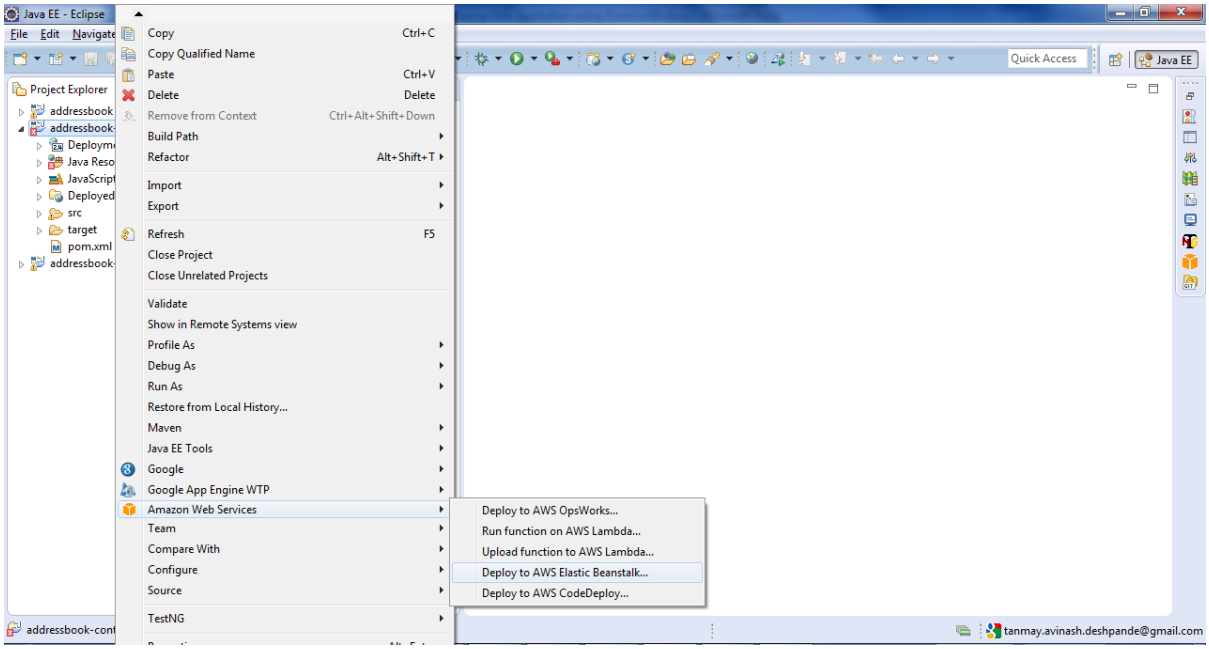

Normal
Basic Auth
Digest Auth
OAuth 1.0
No environment
http://localhost:8080/addressbook/rest/v1/contact/all?userEmail=tanmay@gmail.com
GET
URL params
Headers (1)
Content-Type
application/json
Manage presets
Header
Value
Send
Preview
Add to collection
Reset
Body
Cookies (1)
Headers (4)
STATUS 200 OK
TIME 1883 ms
Pretty
Raw
Preview
JSON
XML
[]

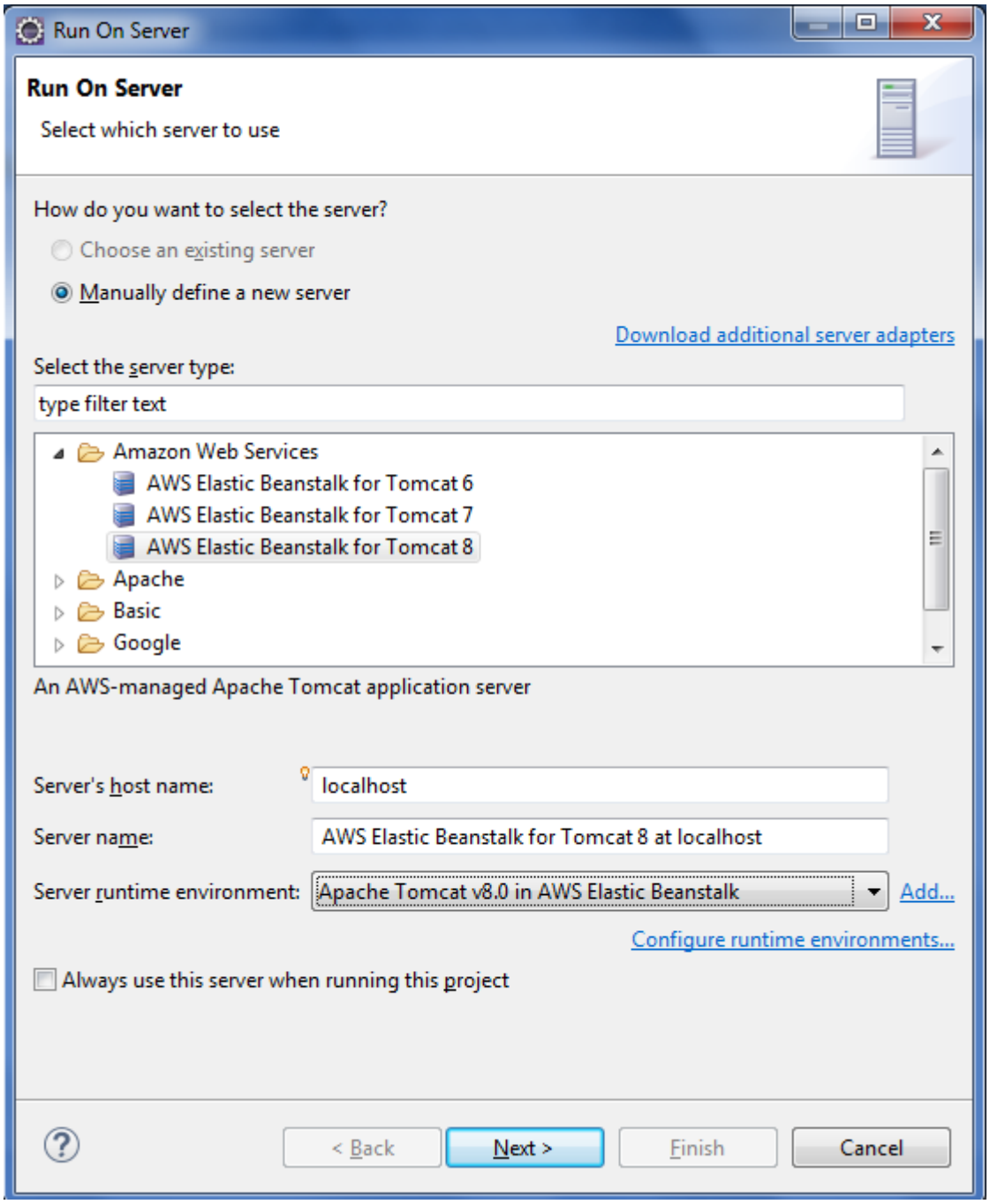

localhost:8080/addressbook/#/
Welcome to MyAddressbook !!
Hi tanmay.avinash.deshpande@gmail.com!
First name
Sneha
Last name
Deshpande
Email
sneha.deshpande@gmail.com
Phone
08883006310
Add New Contact
Cancel

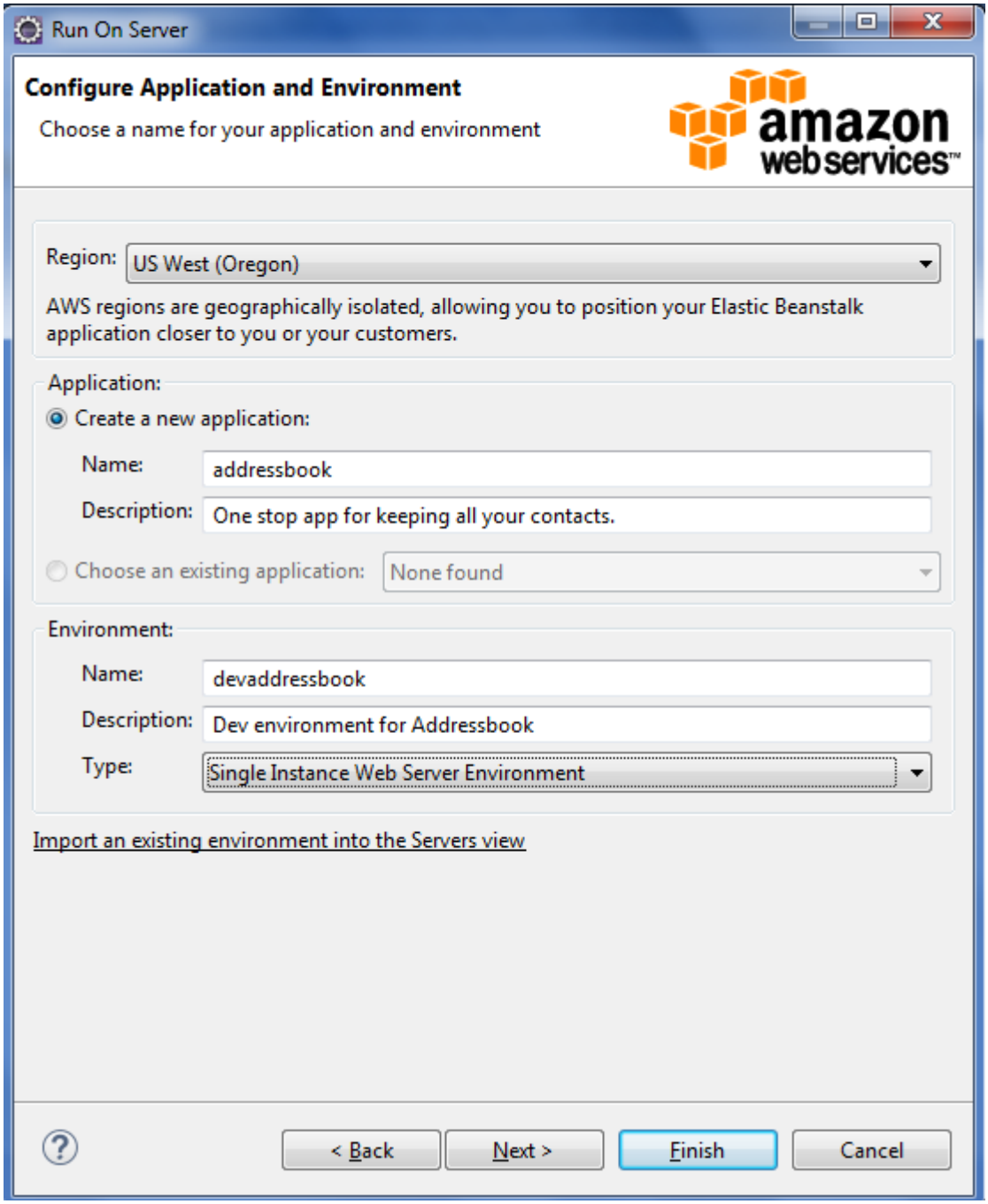


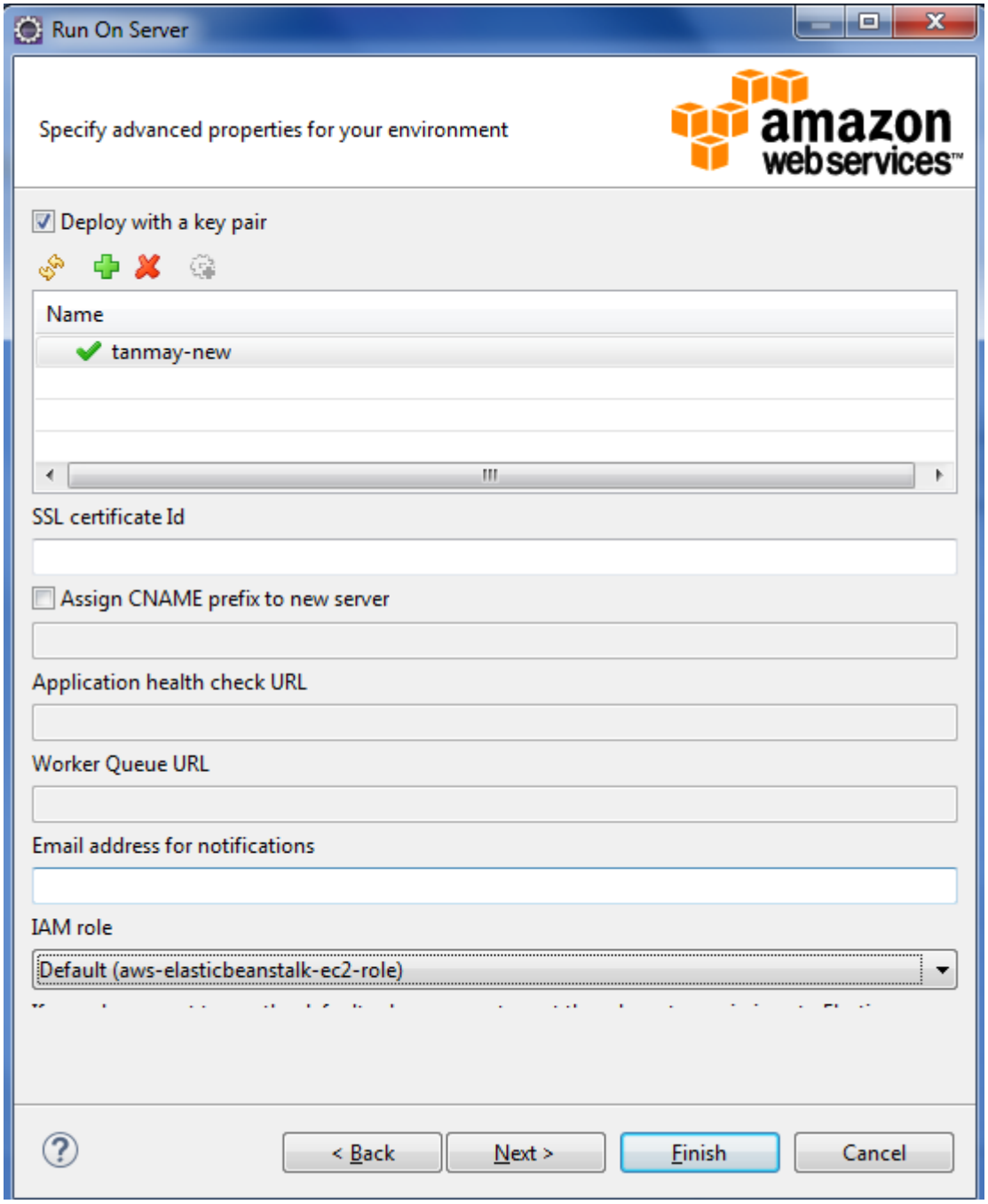

```
C:\Users\tanmay_deshpande\git\dynamodb-cookbook\addressbook-elasticbeanstalk\add
ressbook>mvn clean install
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for
com.packtpub.dynamodb.cookbook:addressbook:pom:1.0.0
[WARNING] 'modules.module[0]' has been specified without a path to the project d
irectory. @ line 17, column 11
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten t
he stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support buildin
g such malformed projects.
[WARNING]
[INFO] ------------------------------------------------------------------------
[INFO] Reactor Build Order:
[INFO]
[INFO] addressbook
[INFO] addressbook-services
[INFO] addressbook-controller Maven Webapp
[INFO]
[INFO] ------------------------------------------------------------------------
[INFO] Building addressbook 1.0.0
[INFO] ------------------------------------------------------------------------
[INFO]
```

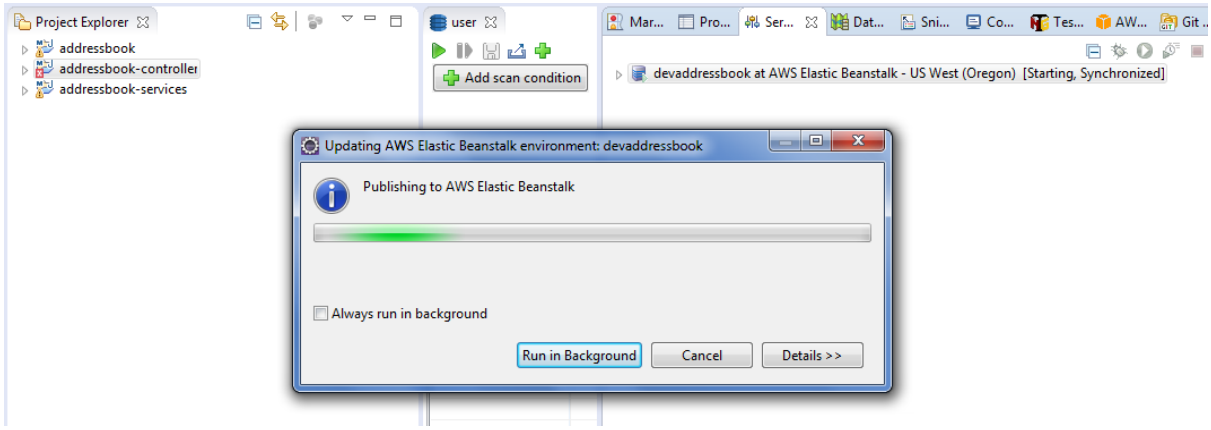

Java EE - Eclipse
Properties for addressbook-controller
type filter text
Resource
Builders
Deployment Assembly
Google
Java Build Path
Java Code Style
Java Compiler
Java Editor
Javadoc Location
JavaScript
JSP Fragment
Maven
Project Facets
Project References
Refactoring History
Run/Debug Settings
Server
Service Policies
Targeted Runtimes
Task Repository
Task Tags
TestNG
Validation
Web Content Settings
Web Page Editor
Web Project Settings
WikiText
XDoclet
Web Deployment Assembly
New Assembly Directive
Java Build Path Entries
Select build path entries to include in the deployment assembly.
Maven Dependencies
< Back
Next >
Finish
Cancel
Add...
Edit...
Remove
Revert
Apply
OK
Cancel

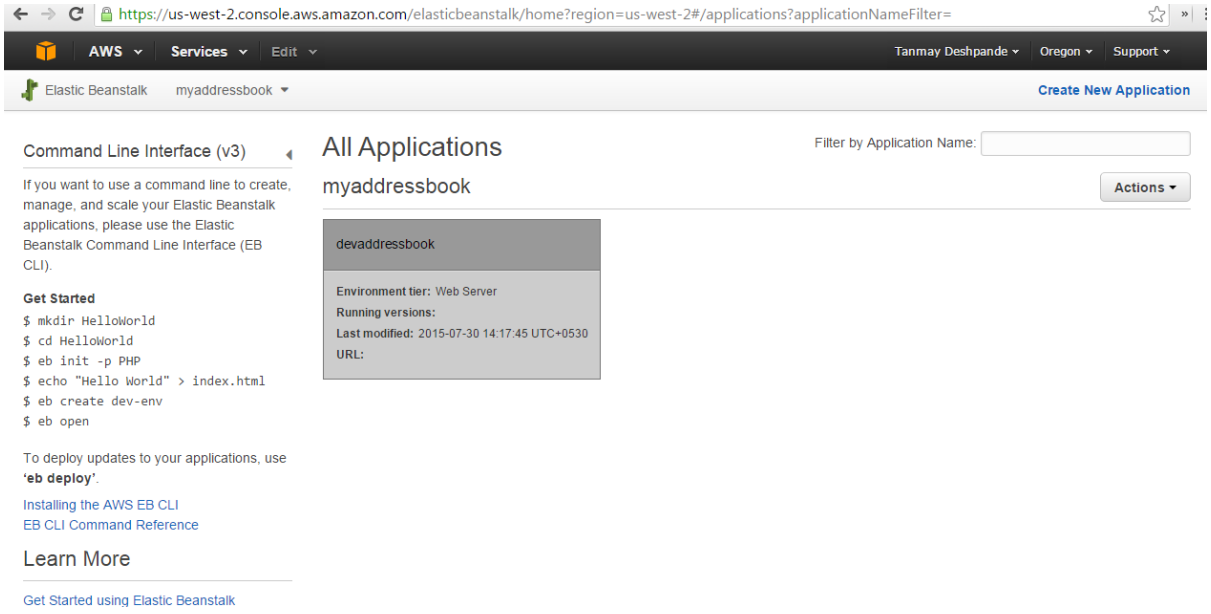

Java EE - Eclipse
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Build Path
Refactor Alt+Shift+T
Import
Export
Refresh F5
Close Project
Close Unrelated Projects
Validate
Show in Remote Systems view
Profile As
Debug As
Run As
Restore from Local History...
Maven
Java EE Tools
Google
Google App Engine WTP
Amazon Web Services
Team
Compare With
Configure
Source
TestNG
Deploy to AWS OpsWorks...
Run function on AWS Lambda...
Upload function to AWS Lambda...
Deploy to AWS Elastic Beanstalk...
Deploy to AWS CodeDeploy...
Quick Access
Java EE

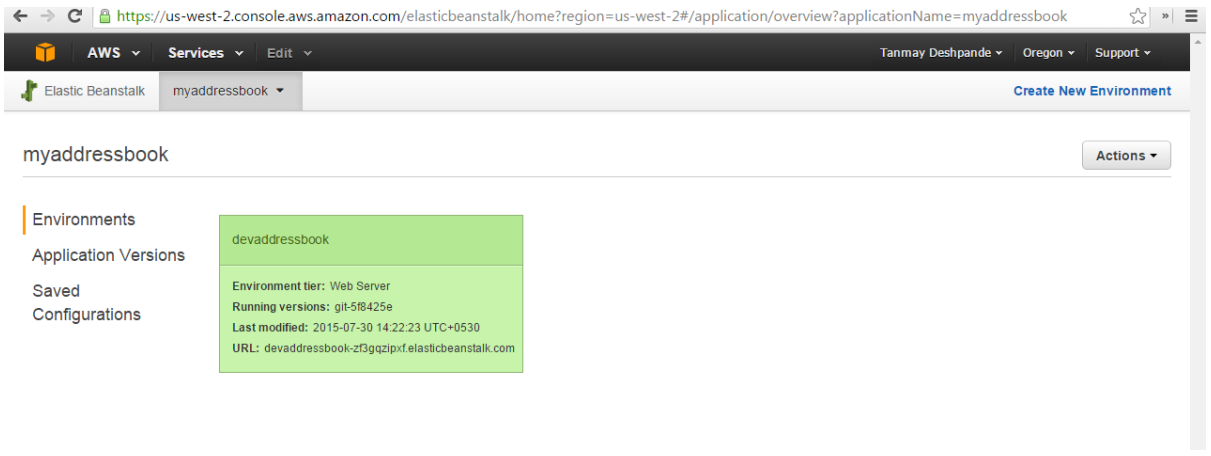

Run On Server
Run On Server
Select which server to use
How do you want to select the server?
Choose an existing server
Manually define a new server
Download additional server adapters
Select the server type:
type filter text
Amazon Web Services
AWS Elastic Beanstalk for Tomcat 6
AWS Elastic Beanstalk for Tomcat 7
AWS Elastic Beanstalk for Tomcat 8
Apache
Basic
Google
An AWS-managed Apache Tomcat application server
Server's host name:
localhost
Server name:
AWS Elastic Beanstalk for Tomcat 8 at localhost
Server runtime environment:
Apache Tomcat v8.0 in AWS Elastic Beanstalk
Add...
Configure runtime environments...
Always use this server when running this project
< Back
Next >
Finish
Cancel

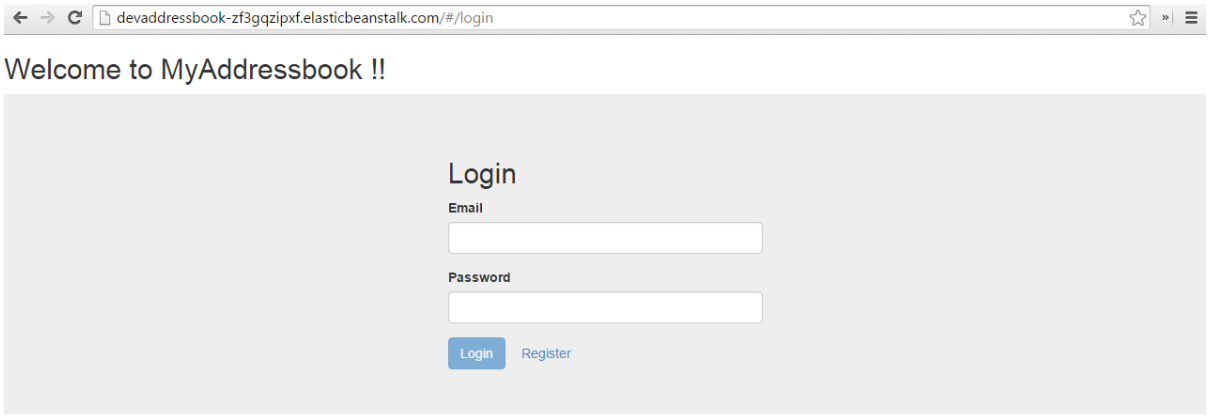

Run On Server
Configure Application and Environment
Choose a name for your application and environment
amazon web services
Region:
US West (Oregon)
AWS regions are geographically isolated, allowing you to position your Elastic Beanstalk application closer to you or your customers.
Application:
Create a new application:
Name:
addressbook
Description:
One stop app for keeping all your contacts.
Choose an existing application:
None found
Environment:
Name:
devaddressbook
Description:
Dev environment for Addressbook
Type:
Single Instance Web Server Environment
Import an existing environment into the Servers view
< Back
Next >
Finish
Cancel

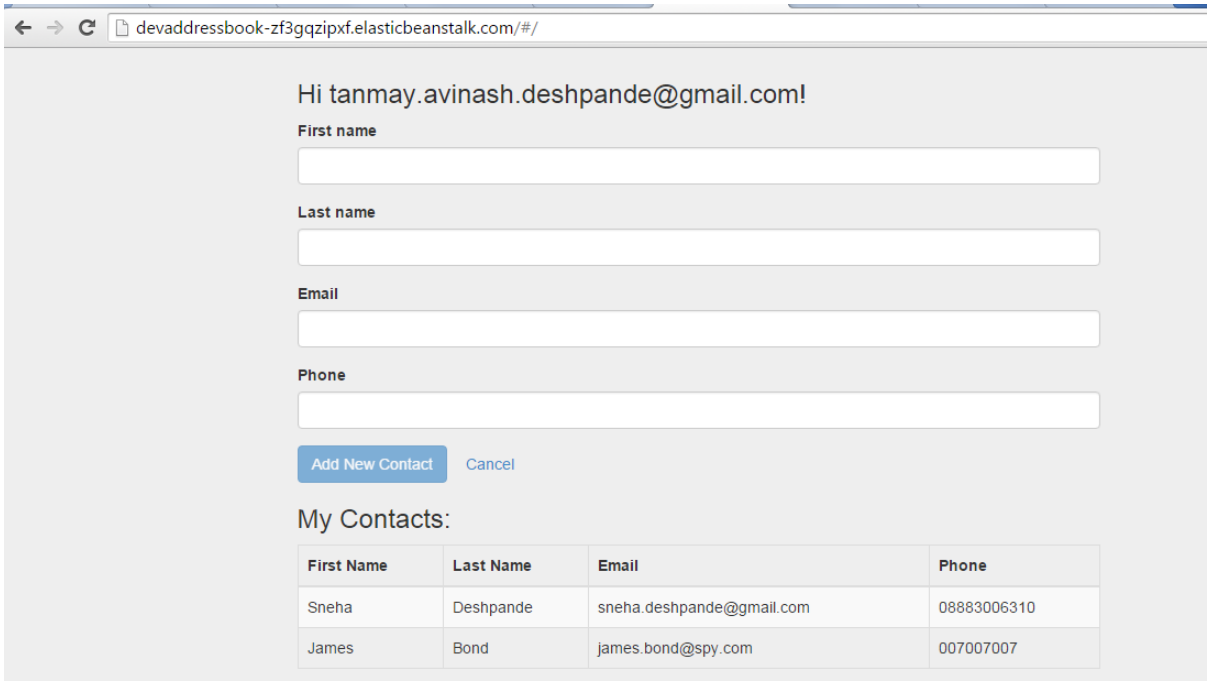

Run On Server
Specify advanced properties for your environment
amazon web services
Deploy with a key pair
Name
tanmay-new
SSL certificate Id
Assign CNAME prefix to new server
Application health check URL
Worker Queue URL
Email address for notifications
IAM role
Default (aws-elasticbeanstalk-ec2-role)
< Back
Next >
Finish
Cancel

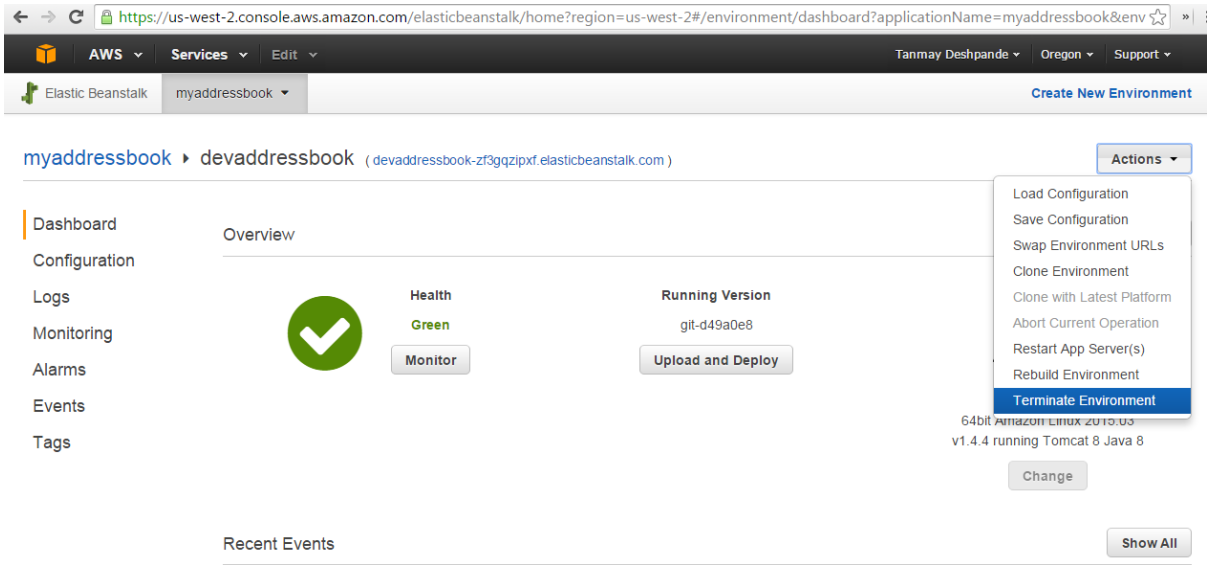

Project Explorer
addressbook
addressbook-controller
addressbook-services
user
Add scan condition
devaddressbook at AWS Elastic Beanstalk - US West (Oregon) [Starting, Synchronized]
Updating AWS Elastic Beanstalk environment: devaddressbook
Publishing to AWS Elastic Beanstalk
Always run in background
Run in Background
Cancel
Details >>


https://us-west-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-2#/applications?applicationNameFilter=
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Elastic Beanstalk
myaddressbook
Create New Application
Command Line Interface (v3)
If you want to use a command line to create, manage, and scale your Elastic Beanstalk applications, please use the Elastic Beanstalk Command Line Interface (EB CLI).
Get Started
$ mkdir HelloWorld
$ cd HelloWorld
$ eb init -p PHP
$ echo "Hello World" > index.html
$ eb create dev-env
$ eb open
To deploy updates to your applications, use 'eb deploy'.
Installing the AWS EB CLI
EB CLI Command Reference
Learn More
Get Started using Elastic Beanstalk
All Applications
Filter by Application Name:
myaddressbook
Actions
devaddressbook
Environment tier: Web Server
Running versions:
Last modified: 2015-07-30 14:17:45 UTC+0530
URL:

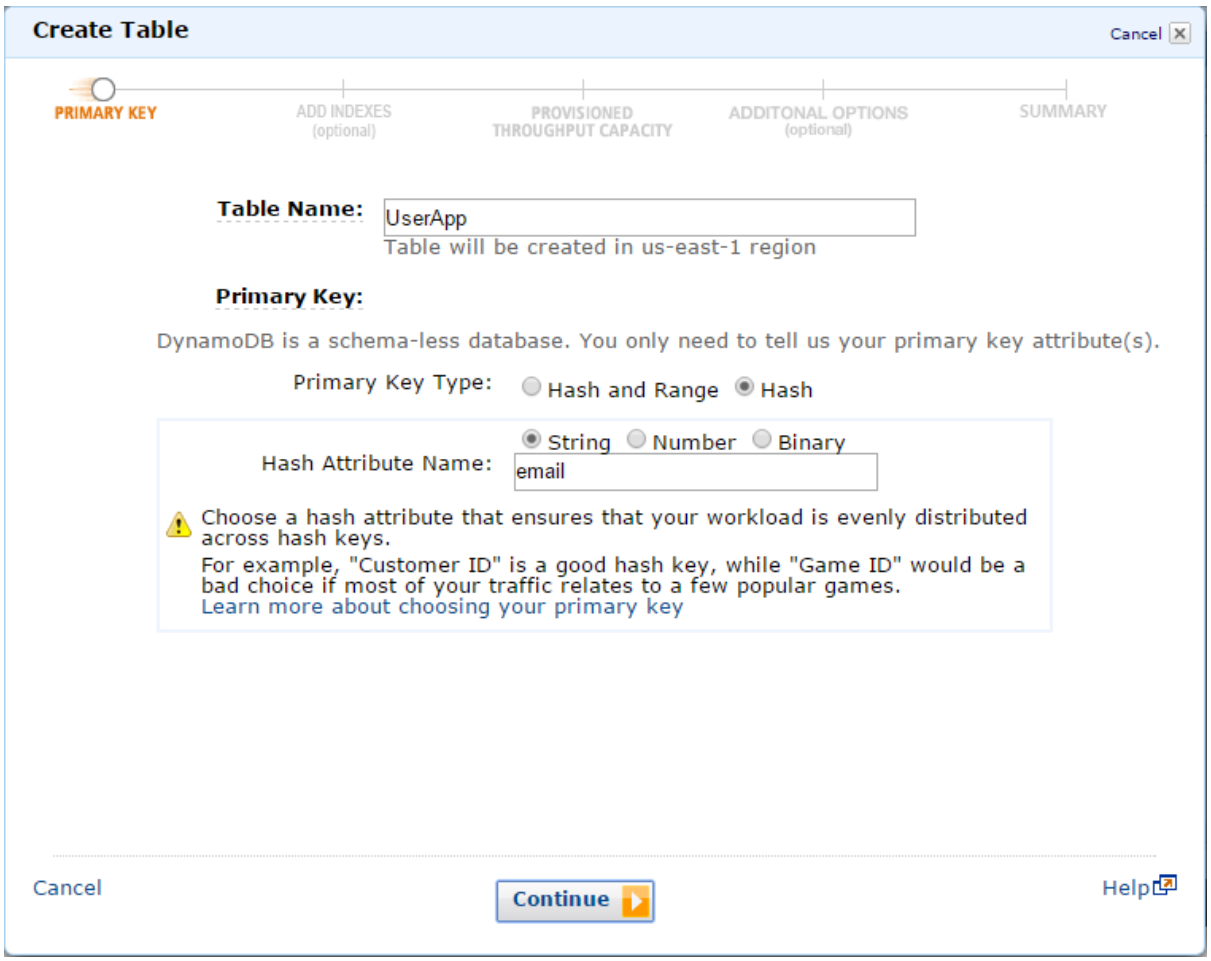

https://us-west-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-2#/application/overview?applicationName=myaddressbook
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Elastic Beanstalk
myaddressbook
Create New Environment
myaddressbook
Actions
Environments
Application Versions
Saved Configurations
devaddressbook
Environment tier: Web Server
Running versions: git-5f8425e
Last modified: 2015-07-30 14:22:23 UTC+0530
URL: devaddressbook-zf3gqzipxf.elasticbeanstalk.com

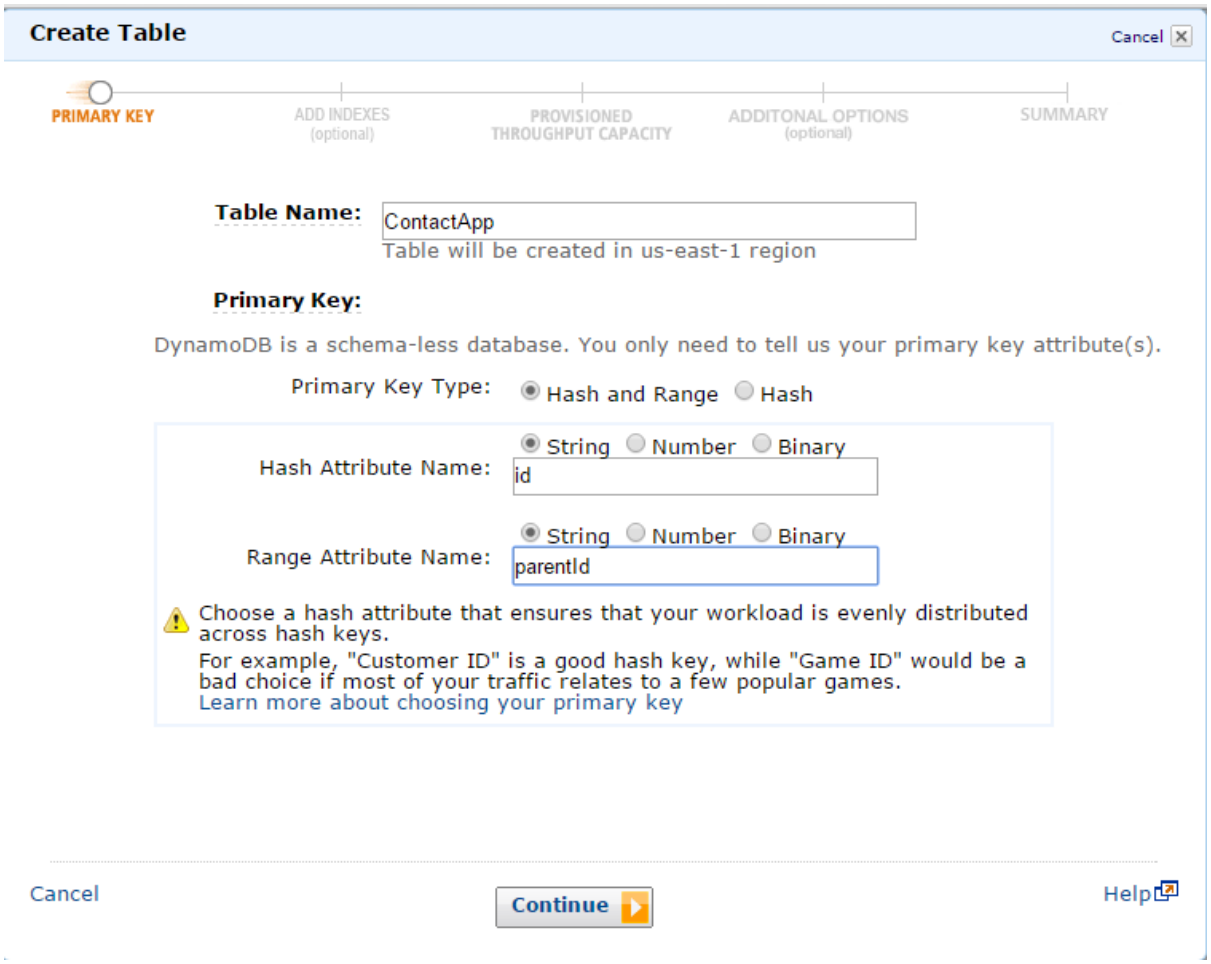

devaddressbook-zf3gqzipxf.elasticbeanstalk.com/#/login
Welcome to MyAddressbook !!
Login
Email
Password
Login
Register

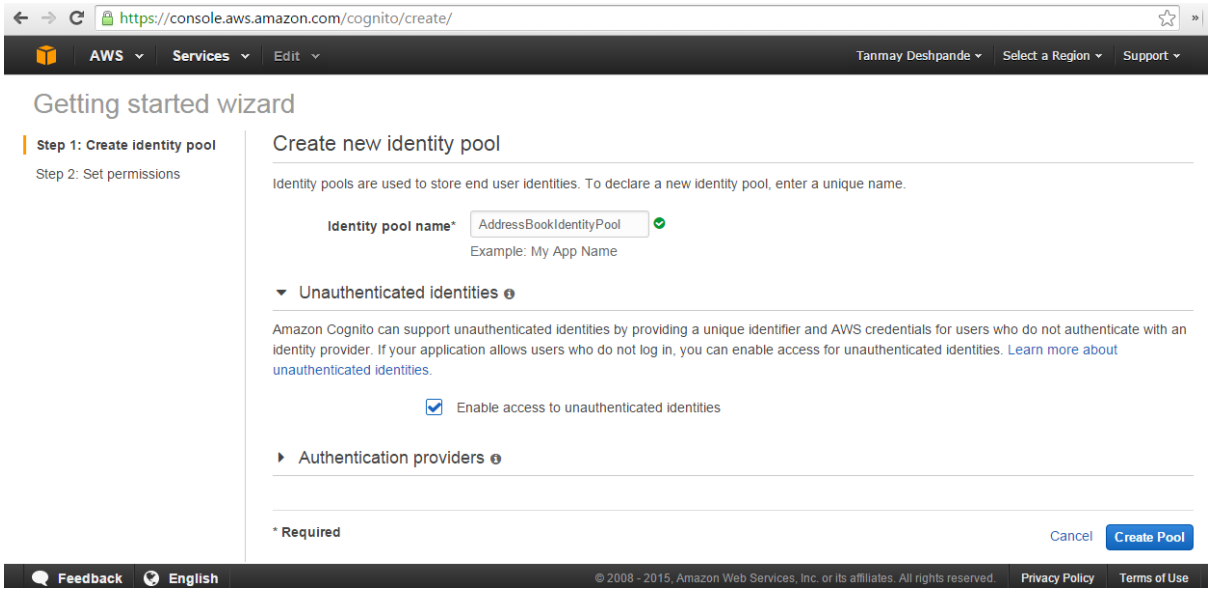

devaddressbook-zf3gqzipxf.elasticbeanstalk.com/#/
Hi tanmay.avinash.deshpande@gmail.com!
First name
Last name
Email
Phone
Add New Contact
Cancel
My Contacts:
First Name
Last Name
Email
Phone
Sneha
Deshpande
sneha.deshpande@gmail.com
08883006310
James
Bond
james.bond@spy.com
007007007


https://us-west-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-west-2#/environment/dashboard?applicationName=myaddressbook&env
AWS
Services
Edit
Tanmay Deshpande
Oregon
Support
Elastic Beanstalk
myaddressbook
Create New Environment
myaddressbook ▸ devaddressbook (devaddressbook-zf3gqzipxf.elasticbeanstalk.com)
Actions
Load Configuration
Save Configuration
Swap Environment URLs
Clone Environment
Clone with Latest Platform
Abort Current Operation
Restart App Server(s)
Rebuild Environment
Terminate Environment
Dashboard
Configuration
Logs
Monitoring
Alarms
Events
Tags
Overview
Health
Green
Monitor
Running Version
git-d49a0e8
Upload and Deploy
64bit Amazon Linux 2015.03
v1.4.4 running Tomcat 8 Java 8
Change
Recent Events
Show All

Chapter 10


Create Table
Cancel
PRIMARY KEY
ADD INDEXES (optional)
PROVISIONED THROUGHPUT CAPACITY
ADDITONAL OPTIONS (optional)
SUMMARY
Table Name:
UserApp
Table will be created in us-east-1 region
Primary Key:
DynamoDB is a schema-less database. You only need to tell us your primary key attribute(s).
Primary Key Type:
Hash and Range
Hash
String
Number
Binary
Hash Attribute Name:
email
Choose a hash attribute that ensures that your workload is evenly distributed across hash keys.
For example, "Customer ID" is a good hash key, while "Game ID" would be a bad choice if most of your traffic relates to a few popular games.
Learn more about choosing your primary key
Cancel
Continue
Help


Create Table
Cancel
PRIMARY KEY
ADD INDEXES (optional)
PROVISIONED THROUGHPUT CAPACITY
ADDITONAL OPTIONS (optional)
SUMMARY
Table Name:
ContactApp
Table will be created in us-east-1 region
Primary Key:
DynamoDB is a schema-less database. You only need to tell us your primary key attribute(s).
Primary Key Type:
Hash and Range
Hash
Hash Attribute Name:
String
Number
Binary
id
Range Attribute Name:
String
Number
Binary
parentId
Choose a hash attribute that ensures that your workload is evenly distributed across hash keys.
For example, "Customer ID" is a good hash key, while "Game ID" would be a bad choice if most of your traffic relates to a few popular games.
Learn more about choosing your primary key
Cancel
Continue
Help


https://console.aws.amazon.com/cognito/create/
AWS
Services
Edit
Tanmay Deshpande
Select a Region
Support
Getting started wizard
Step 1: Create identity pool
Step 2: Set permissions
Create new identity pool
Identity pools are used to store end user identities. To declare a new identity pool, enter a unique name.
Identity pool name*
AddressBookIdentityPool
Example: My App Name
Unauthenticated identities
Amazon Cognito can support unauthenticated identities by providing a unique identifier and AWS credentials for users who do not authenticate with an identity provider. If your application allows users who do not log in, you can enable access for unauthenticated identities. Learn more about unauthenticated identities.
Enable access to unauthenticated identities
Authentication providers
* Required
Cancel
Create Pool
Feedback
English
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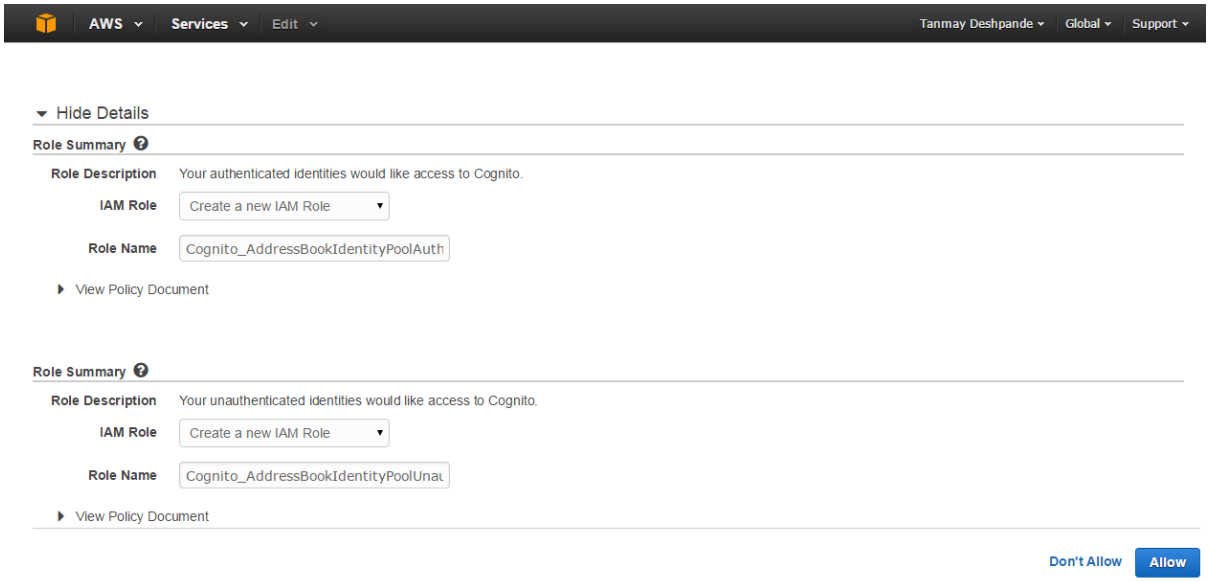
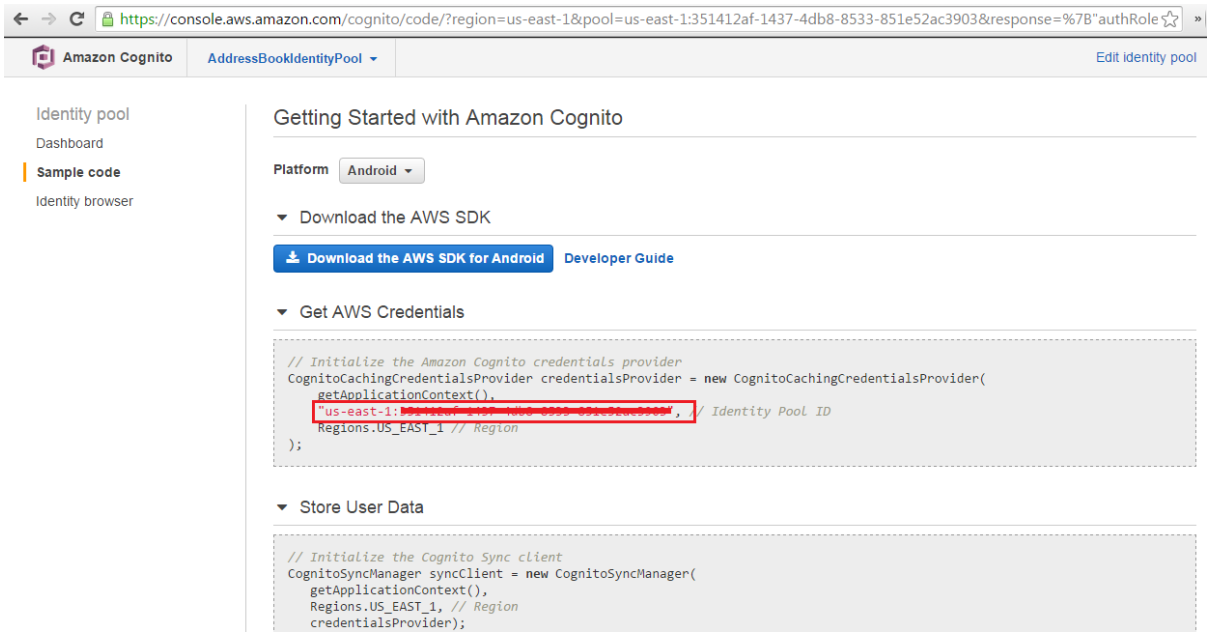
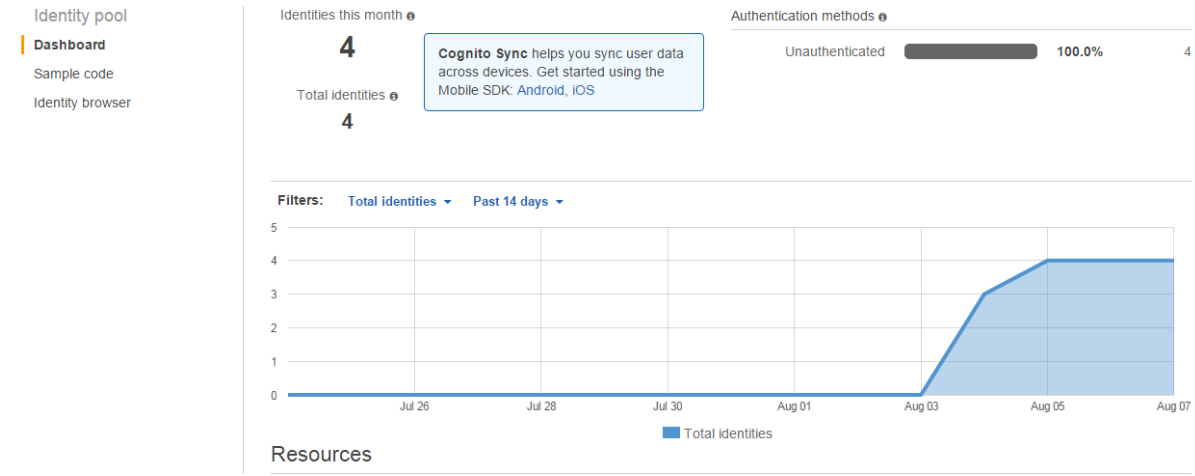
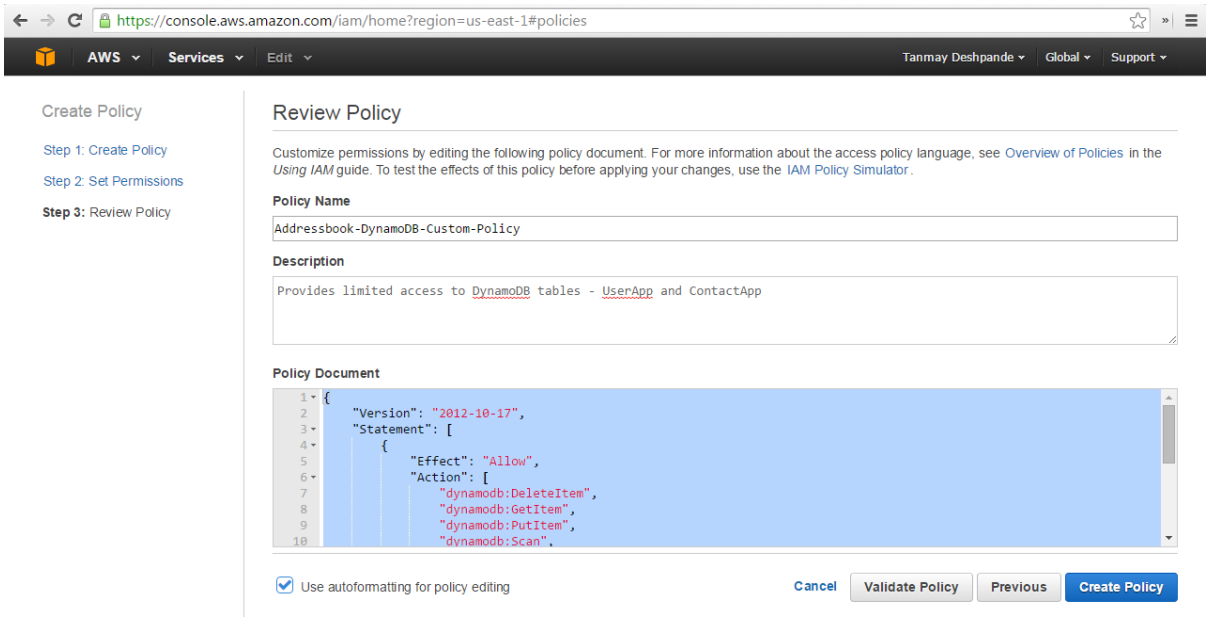
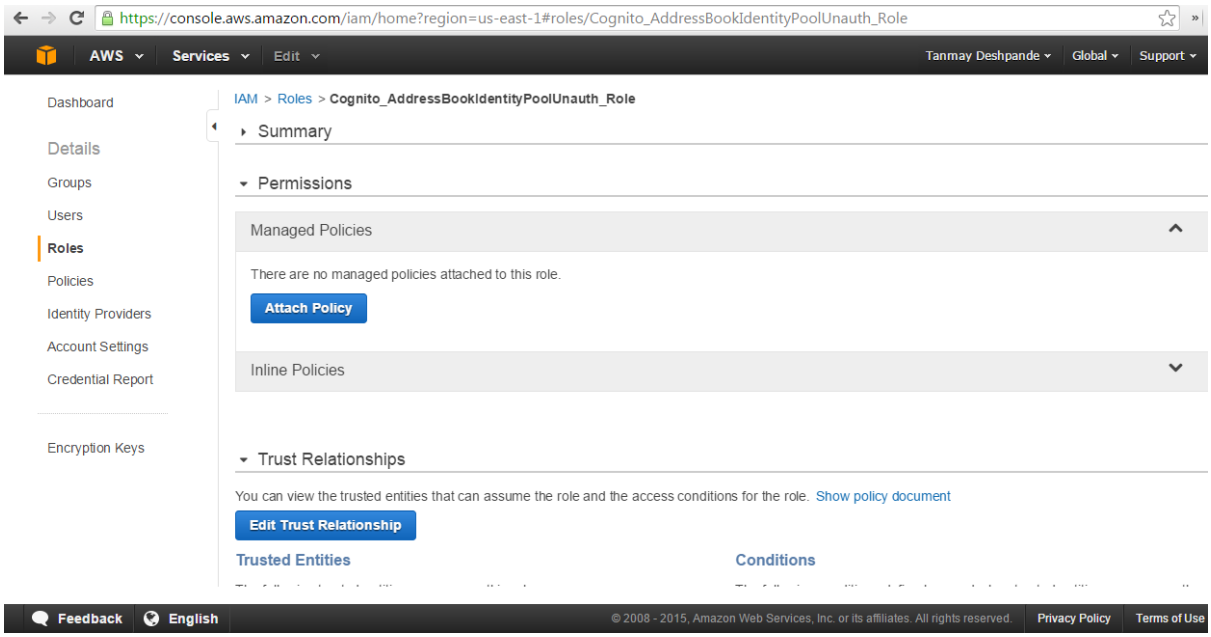
Privacy Policy
Terms of Use


AWS
Services
Edit
Tanmay Deshpande
Global
Support
Hide Details
Role Summary
Role Description
Your authenticated identities would like access to Cognito.
IAM Role
Create a new IAM Role
Role Name
Cognito_AddressBookIdentityPoolAuth
View Policy Document
Role Summary
Role Description
Your unauthenticated identities would like access to Cognito.
IAM Role
Create a new IAM Role
Role Name
Cognito_AddressBookIdentityPoolUnat
View Policy Document
Don't Allow
Allow


https://console.aws.amazon.com/cognito/code/?region=us-east-1&pool=us-east-1:351412af-1437-4db8-8533-851e52ac3903&response=%7B"authRole
Amazon Cognito
AddressBookIdentityPool
Edit identity pool
Identity pool
Dashboard
Sample code
Identity browser
Getting Started with Amazon Cognito
Platform
Android
Download the AWS SDK
Download the AWS SDK for Android
Developer Guide
Get AWS Credentials
// Initialize the Amazon Cognito credentials provider
CognitoCachingCredentialsProvider credentialsProvider = new CognitoCachingCredentialsProvider(
getApplicationContext(),
"us-east-1:
// Identity Pool ID
Regions.US_EAST_1 // Region
);
Store User Data
// Initialize the Cognito Sync client
CognitoSyncManager syncClient = new CognitoSyncManager(
getApplicationContext(),
Regions.US_EAST_1, // Region
credentialsProvider);


Identity pool
Dashboard
Sample code
Identity browser
Identities this month
4
Total identities
4
Cognito Sync helps you sync user data across devices. Get started using the Mobile SDK: Android, iOS
Authentication methods
Unauthenticated
100.0%
4
Filters:
Total identities
Past 14 days
5
4
3
2
1
0
Jul 26
Jul 28
Jul 30
Aug 01
Aug 03
Aug 05
Aug 07
Total identities
Resources


https://console.aws.amazon.com/iam/home?region=us-east-1#policies
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Create Policy
Step 1: Create Policy
Step 2: Set Permissions
Step 3: Review Policy
Review Policy
Customize permissions by editing the following policy document. For more information about the access policy language, see Overview of Policies in the Using IAM guide. To test the effects of this policy before applying your changes, use the IAM Policy Simulator.
Policy Name
Addressbook-DynamoDB-Custom-Policy
Description
Provides limited access to DynamoDB tables - UserApp and ContactApp
Policy Document
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": [
"dynamodb:DeleteItem",
"dynamodb:GetItem",
"dynamodb:PutItem",
"dynamodb:Scan",
Use autoformatting for policy editing
Cancel
Validate Policy
Previous
Create Policy


https://console.aws.amazon.com/iam/home?region=us-east-1#roles/Cognito_AddressBookIdentityPoolUnauth_Role
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Dashboard
Details
Groups
Users
Roles
Policies
Identity Providers
Account Settings
Credential Report
Encryption Keys
IAM > Roles > Cognito_AddressBookIdentityPoolUnauth_Role
Summary
Permissions
Managed Policies
There are no managed policies attached to this role.
Attach Policy
Inline Policies
Trust Relationships
You can view the trusted entities that can assume the role and the access conditions for the role. Show policy document
Edit Trust Relationship
Trusted Entities
Conditions
Feedback
English
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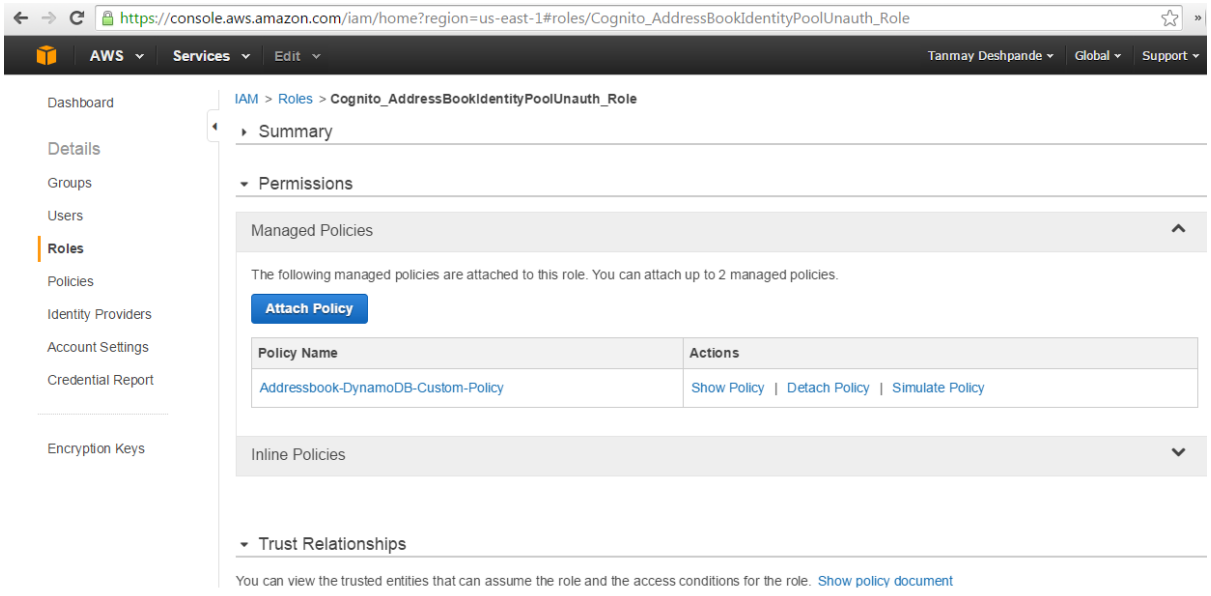
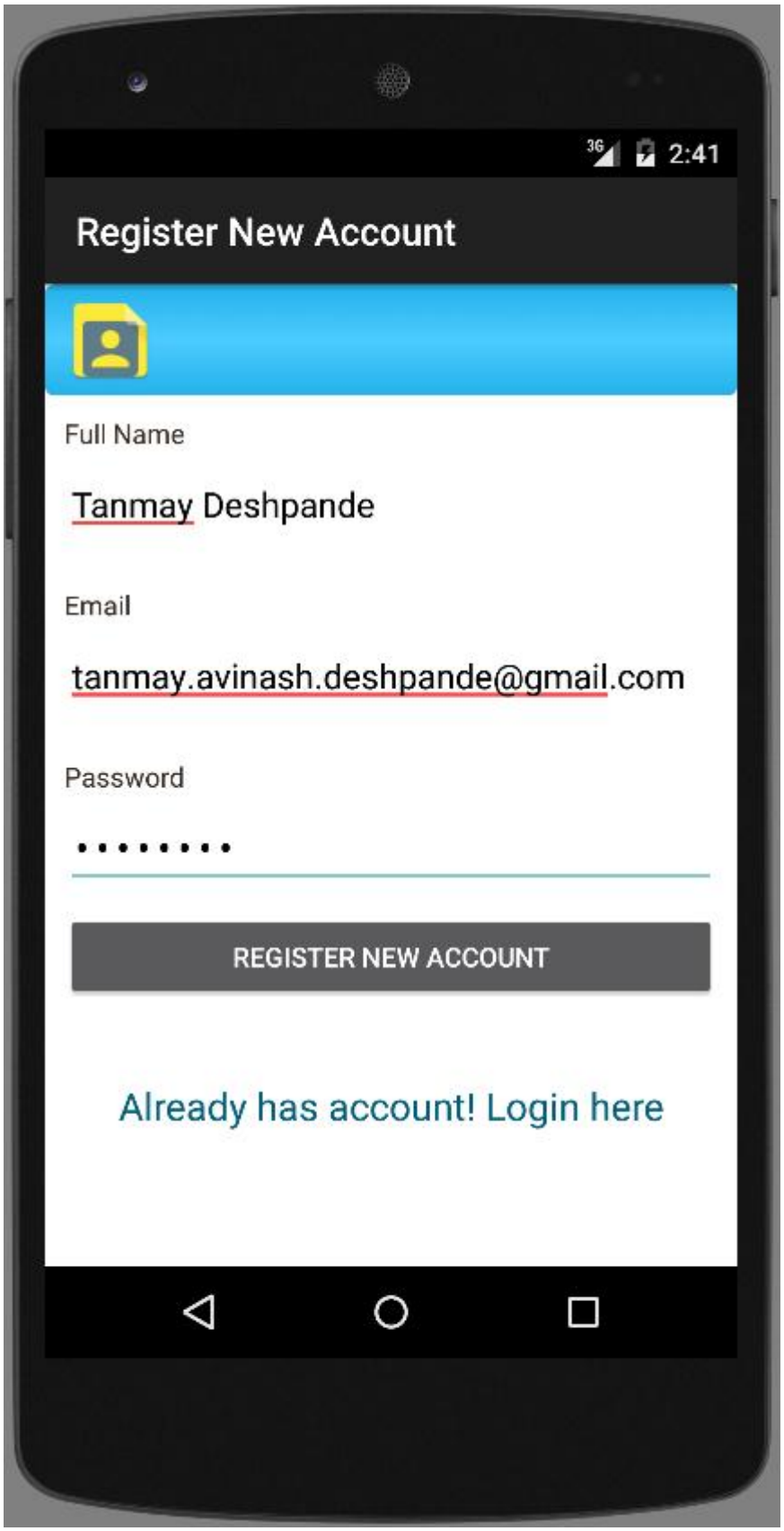
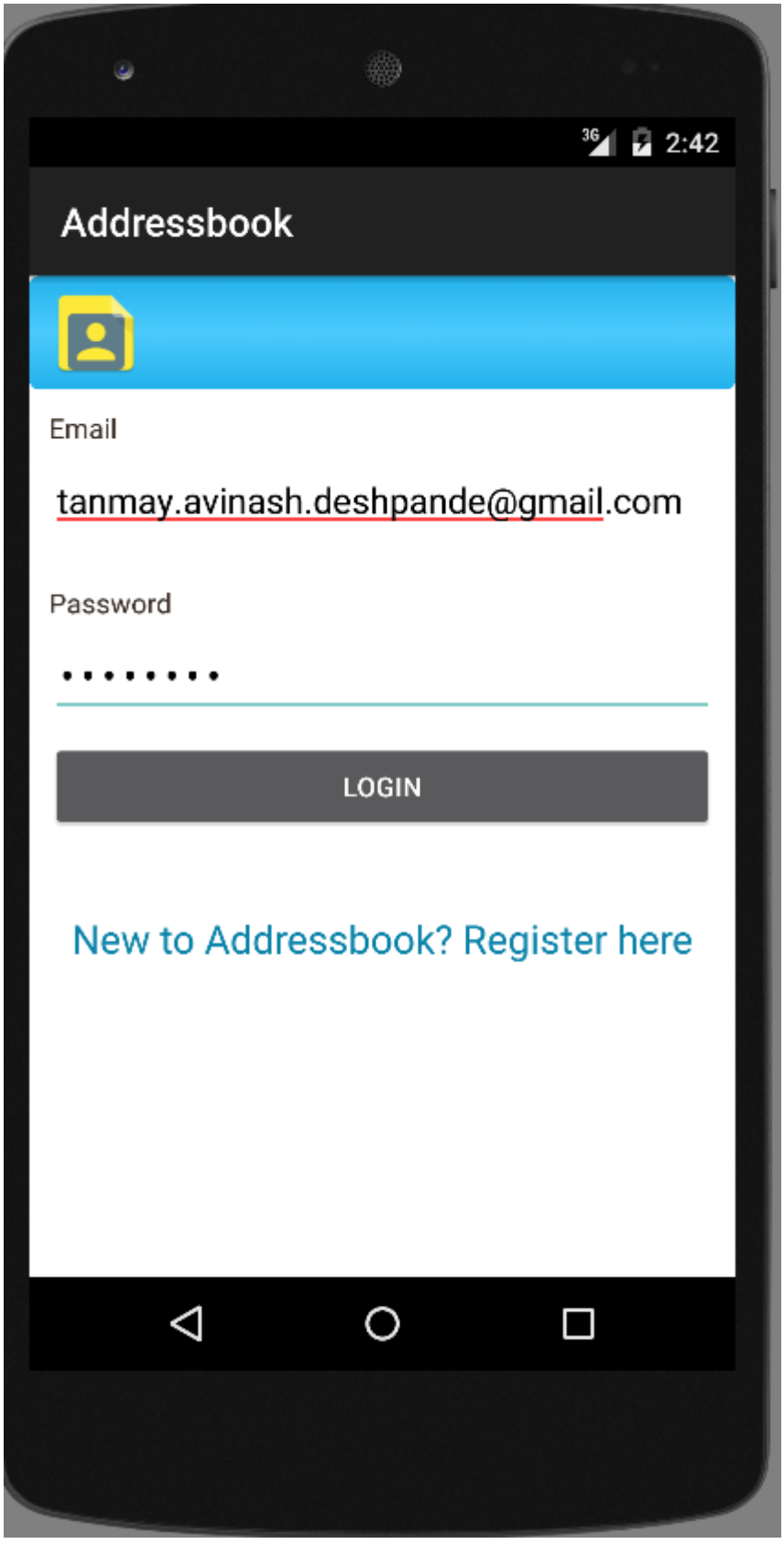
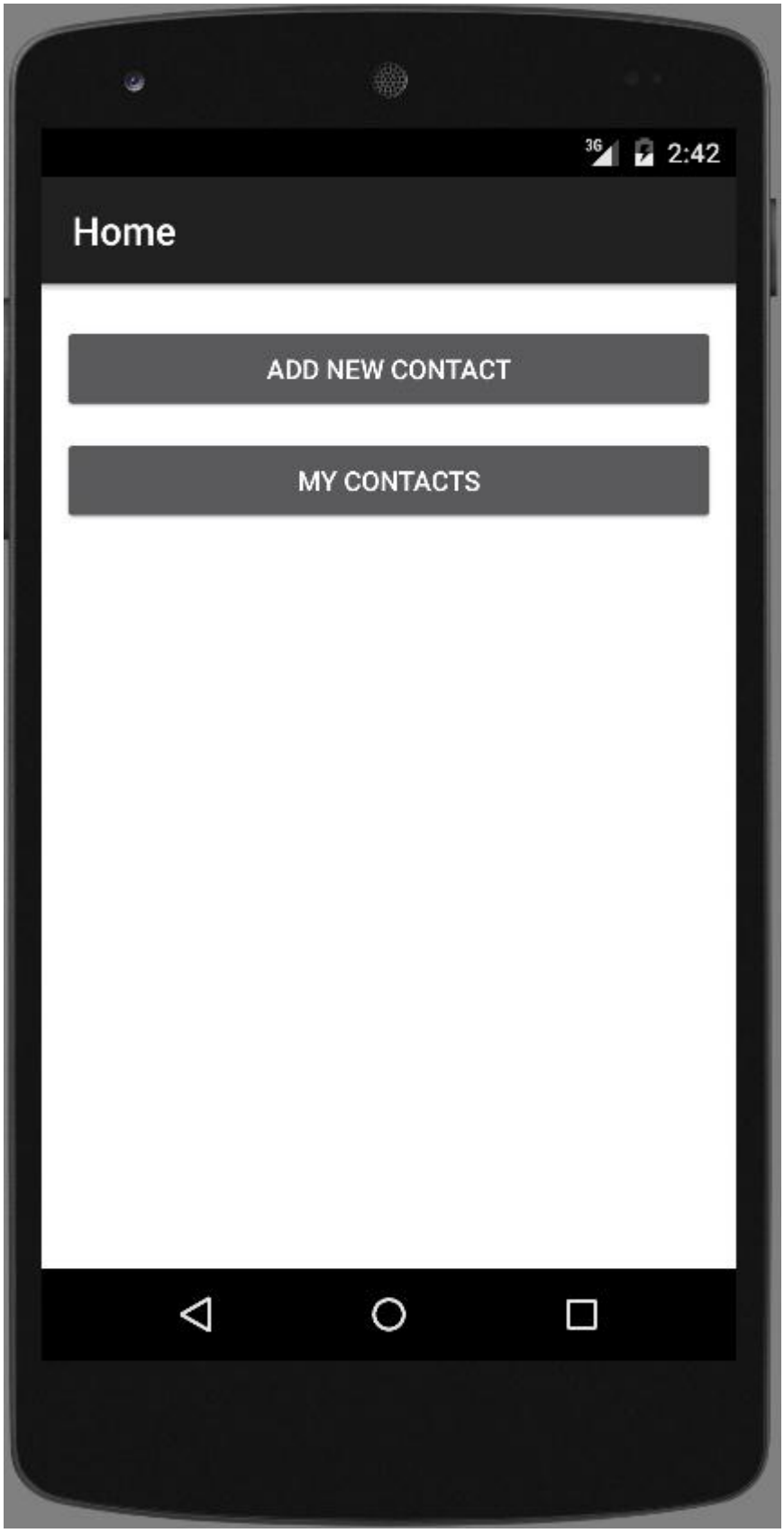
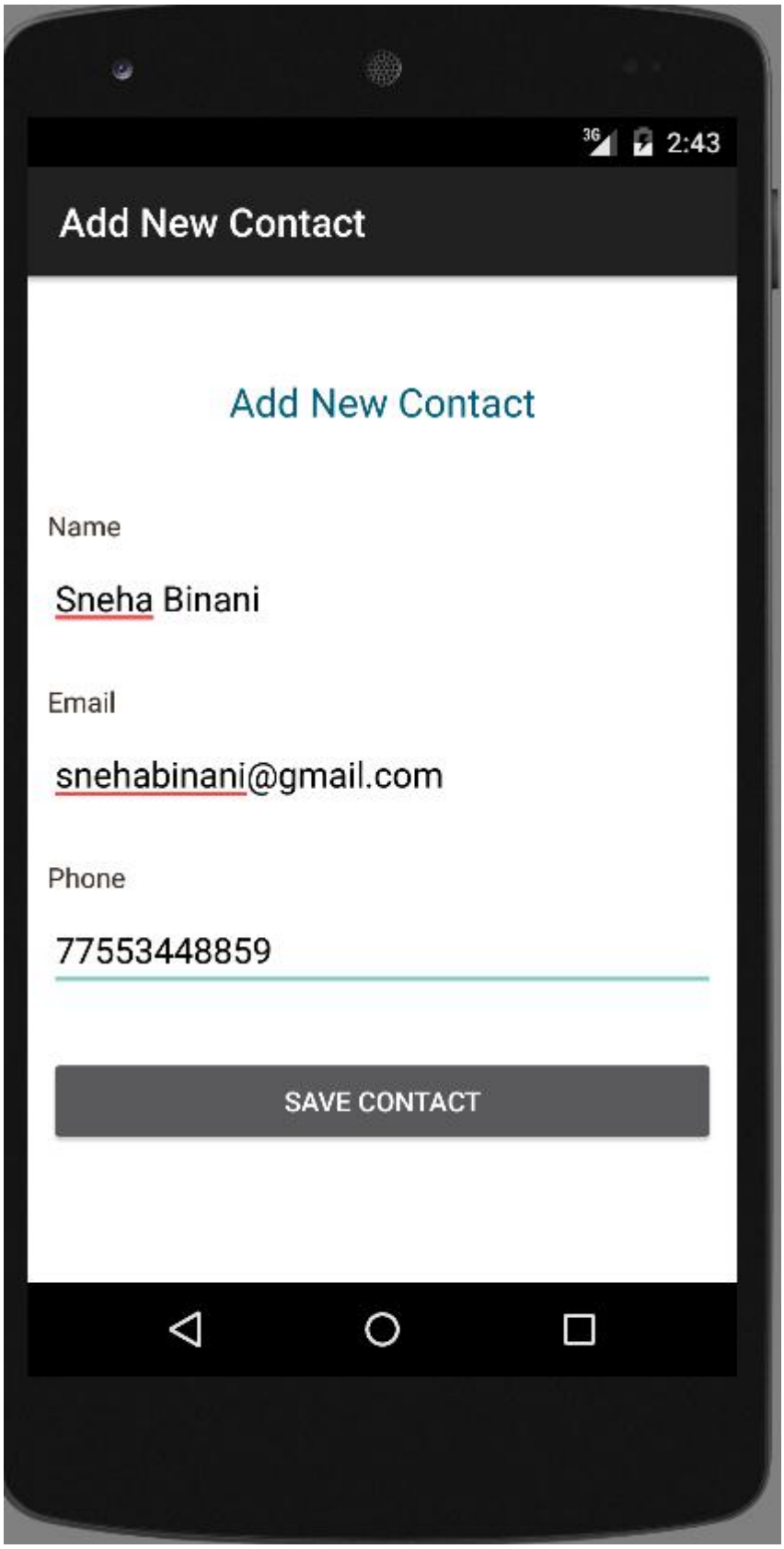
Privacy Policy
Terms of Use


https://console.aws.amazon.com/iam/home?region=us-east-1#roles/Cognito_AddressBookIdentityPoolUnauth_Role
AWS
Services
Edit
Tanmay Deshpande
Global
Support
Dashboard
Details
Groups
Users
Roles
Policies
Identity Providers
Account Settings
Credential Report
Encryption Keys
IAM > Roles > Cognito_AddressBookIdentityPoolUnauth_Role
Summary
Permissions
Managed Policies
The following managed policies are attached to this role. You can attach up to 2 managed policies.
Attach Policy
Policy Name
Actions
Addressbook-DynamoDB-Custom-Policy
Show Policy | Detach Policy | Simulate Policy
Inline Policies
Trust Relationships
You can view the trusted entities that can assume the role and the access conditions for the role. Show policy document


2:41
Register New Account
Full Name
Tanmay Deshpande
Email
tanmay.avinash.deshpande@gmail.com
Password
REGISTER NEW ACCOUNT
Already has account! Login here


2:42
Addressbook
Email
tanmay.avinash.deshpande@gmail.com
Password
LOGIN
New to Addressbook? Register here


2:42
Home
ADD NEW CONTACT
MY CONTACTS


2:43
Add New Contact
Add New Contact
Name
Sneha Binani
Email
snehabinani@gmail.com
Phone
77553448859
SAVE CONTACT


2:45
Contact List
Sneha Binani snehabinani@gmail.com
77553448859
Sakalya Deshpande
deshpande.sakalya@gmail.com 585858765