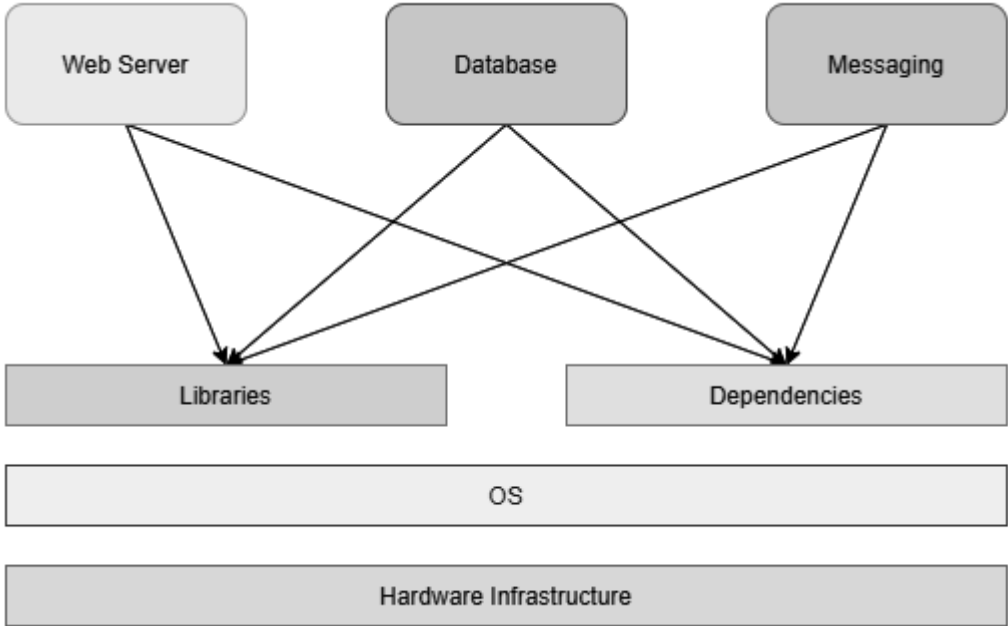
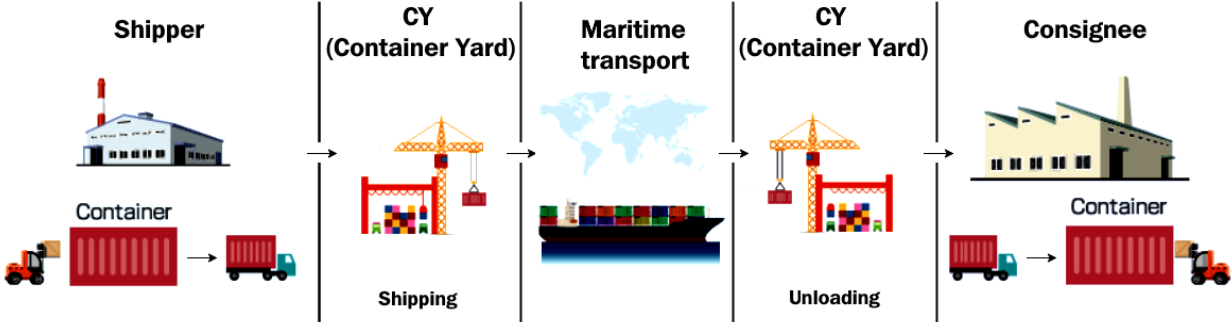
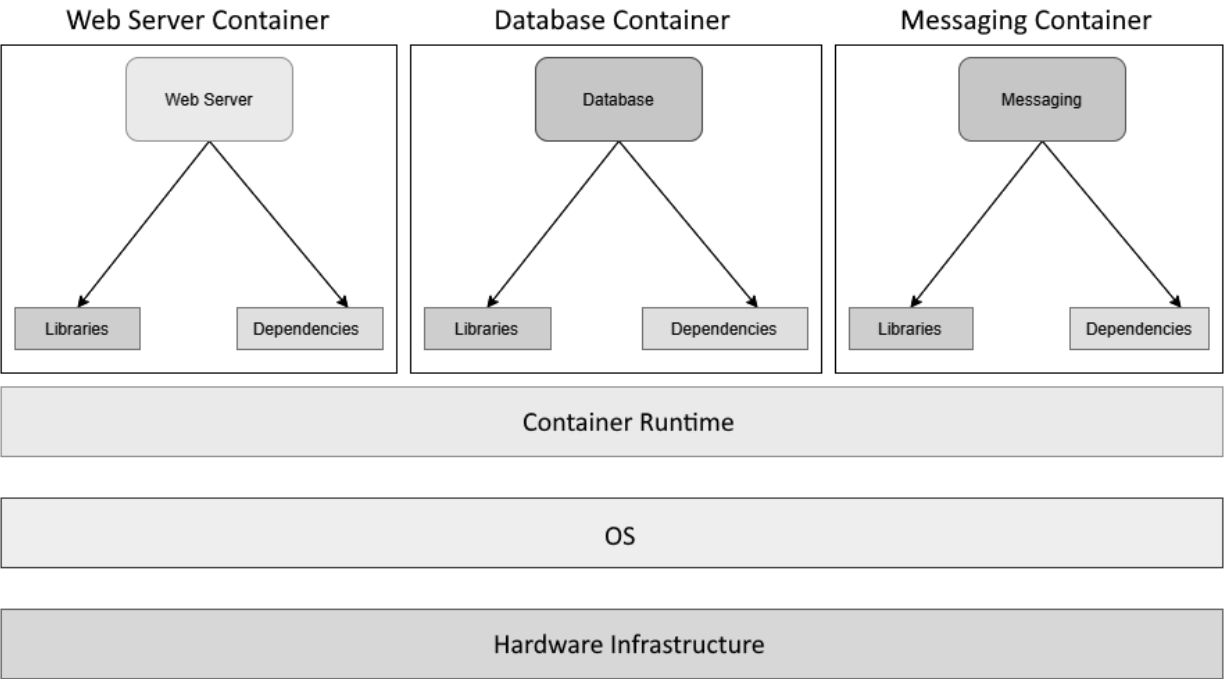
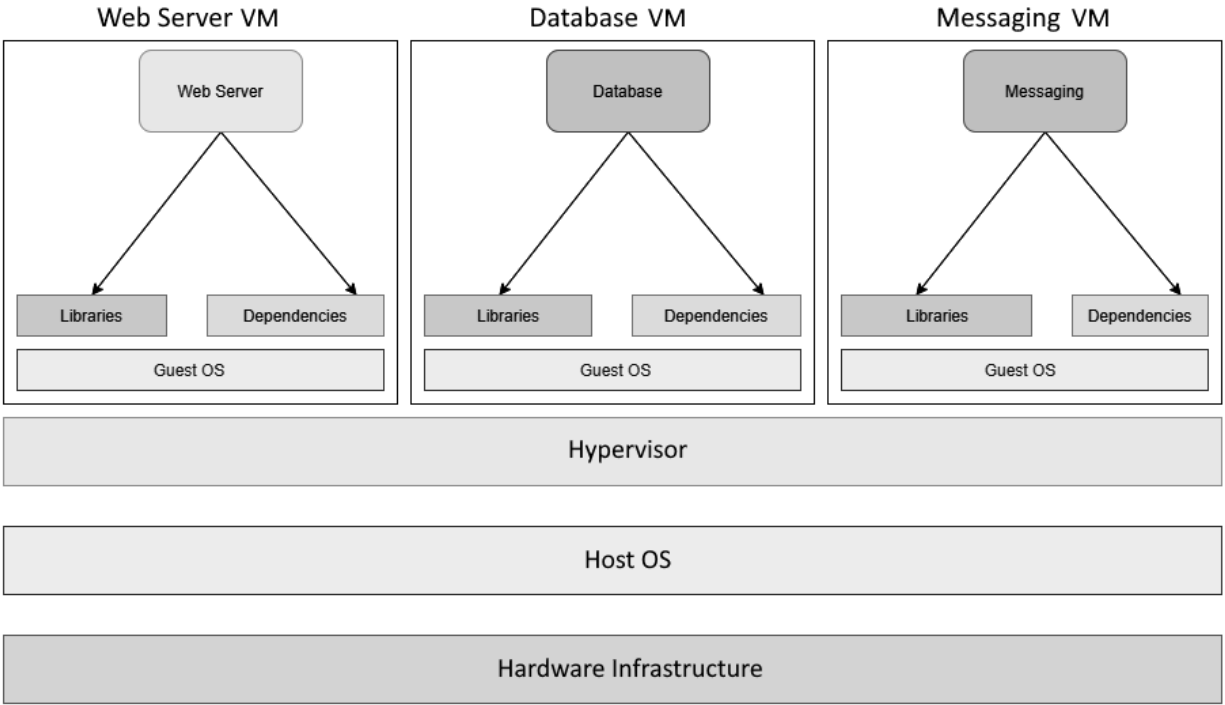


Chapter 1: The Move to Containers

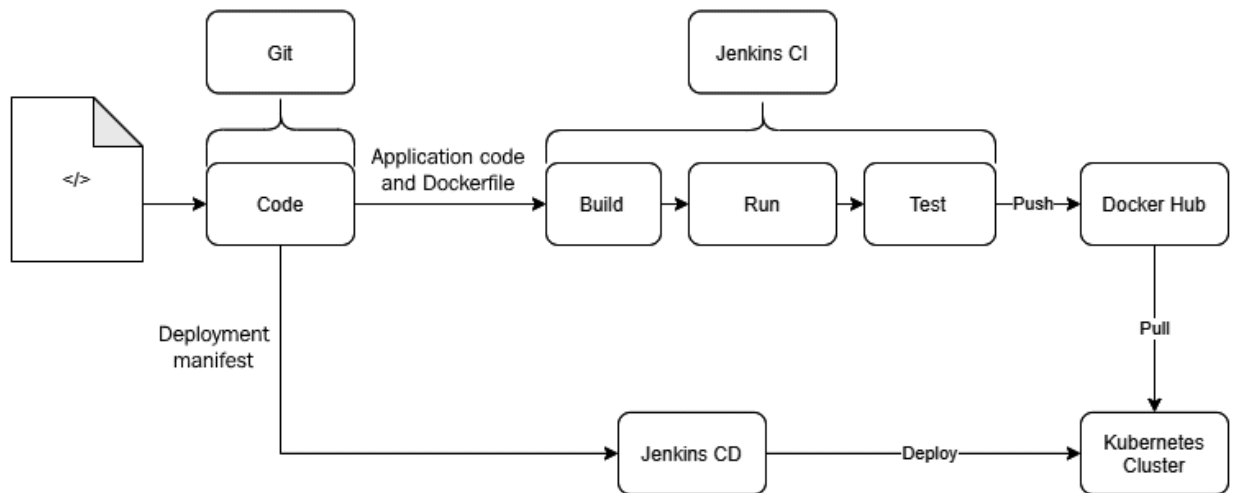


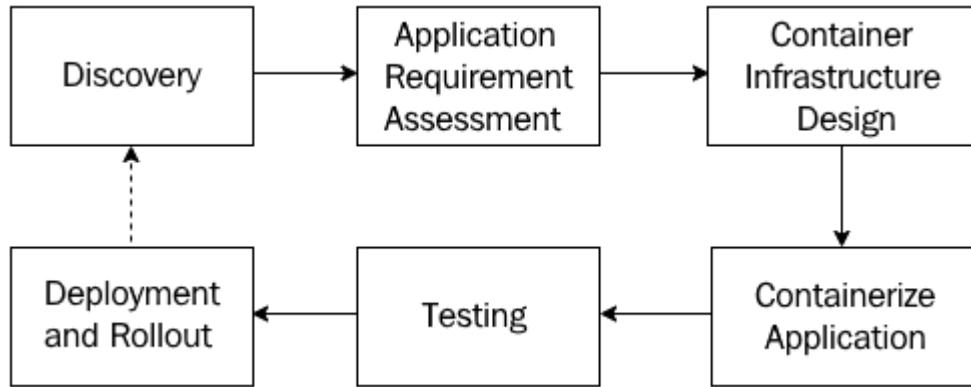


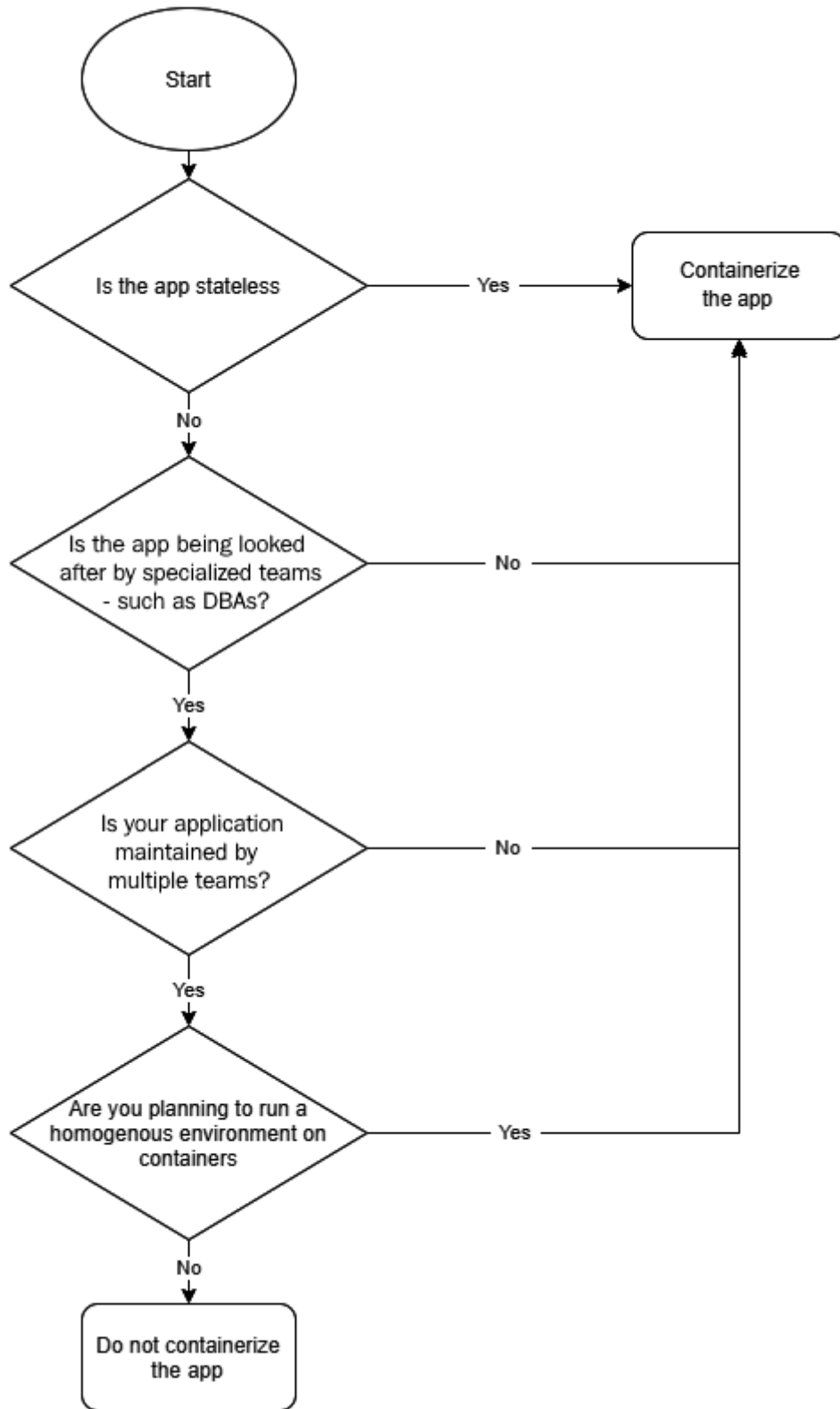
```

$ pstree
systemd--NetworkManager--{gdbus}
                        --{gmain}
--Thunar
--Xtightvnc
--accounts-daemon--{gdbus}
                  --{gmain}
--acpid
--2*[agetty]
--amazon-ssm-agen--9*[{amazon-ssm-agen}]
--2*[at-spi-bus-laun--dbus-daemon]
                  --{dconf worker}]
                  --{gdbus}]
                  --{gmain}]
--2*[at-spi2-registr--{gdbus}]
                  --{gmain}]
--atd
--avahi-daemon--avahi-daemon
--colord--{gdbus}
         --{gmain}
--containerd--containerd-shim--nginx--nginx
              --9*[{containerd-shim}]
              --12*[{containerd}]

```







Chapter 2: Containerization with Docker

← → ↻ localhost

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

Prometheus Alerts Graph Status ▾ Help

container_memory_usage_bytes{name=~"web"} Load time: 152ms
Resolution: 14s
Total time series: 1

Execute

Graph Console

Element	Value
container_memory_usage_bytes{container_label_maintainer="NGINX Docker Maintainers <docker-maint@nginx.com>", id="/docker/f9b613d6bd3d6aee0cb3a08cb55c99a7c4821341b058d8757579b52cabb0f5",image="nginx",instance="172.31.99.49:8080",job="Docker Containers",name="web"}	1490944

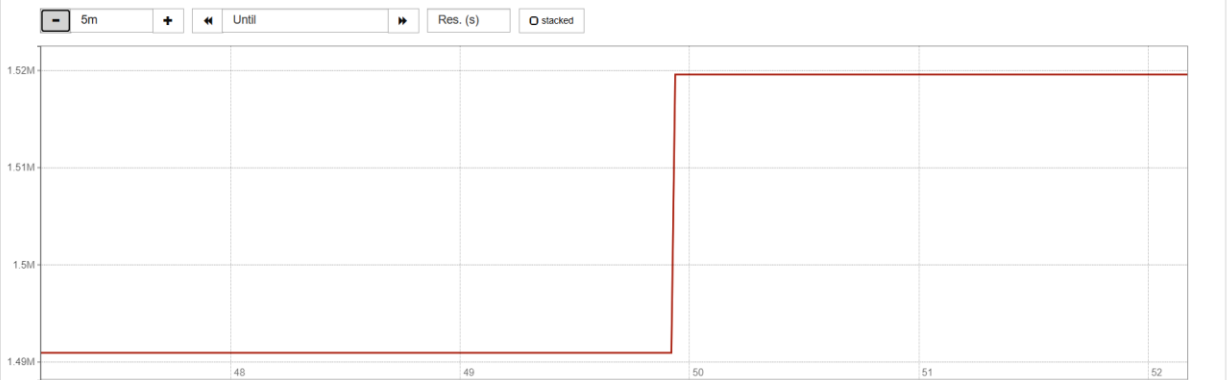
Add Graph Remove Graph

container_memory_usage_bytes(name=~"web")

Load time: 148ms
Resolution: 1s
Total time series: 1

Execute - insert metric at cursor -

Graph Console



container_memory_usage_bytes[container_label_maintainer="NGINX Docker Maintainers <docker-maint@nginx.com>" id="docker/f9613d6bd3d8ae0cb3a08cb55c99a7c4821341b058d8757579b52cabb0f0",image="nginx",instance="172.31.99.48:8080",job=""]

[Remove Graph](#)

node_cpu{instance="172.31.99.49:9100",job="node_exporter"}

Load time: 127ms
Resolution: 14s
Total time series: 20

Execute

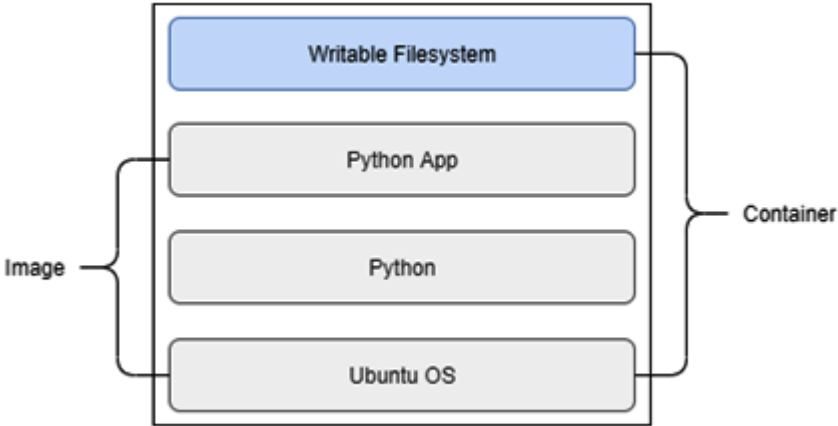
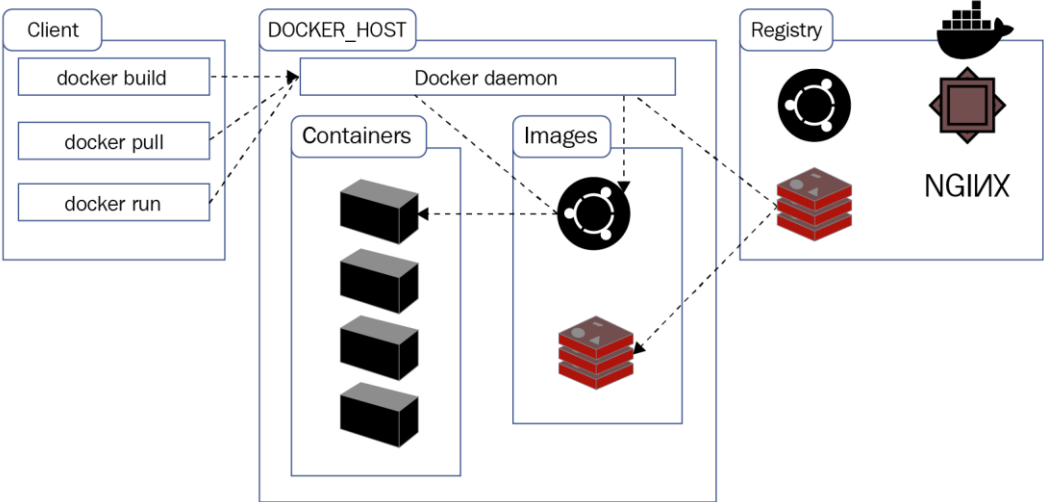
- insert metric at cursor - ▾

Graph

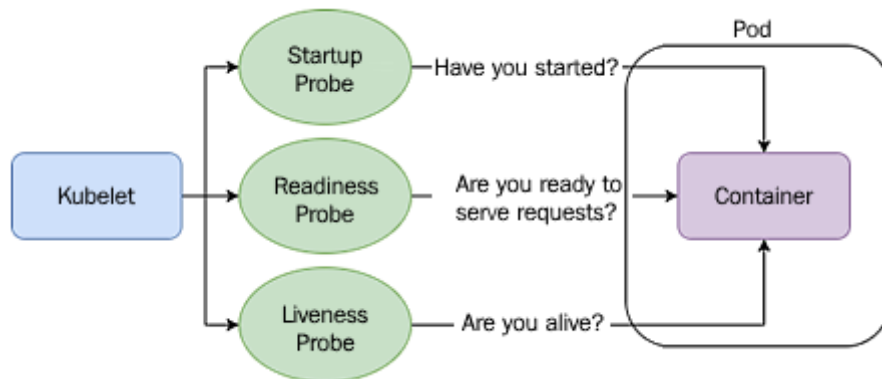
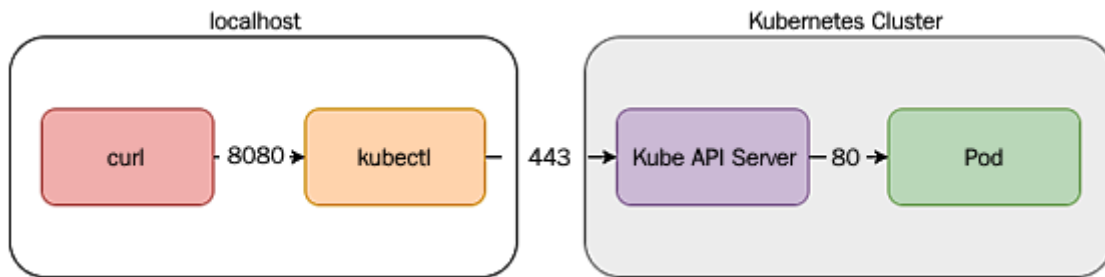
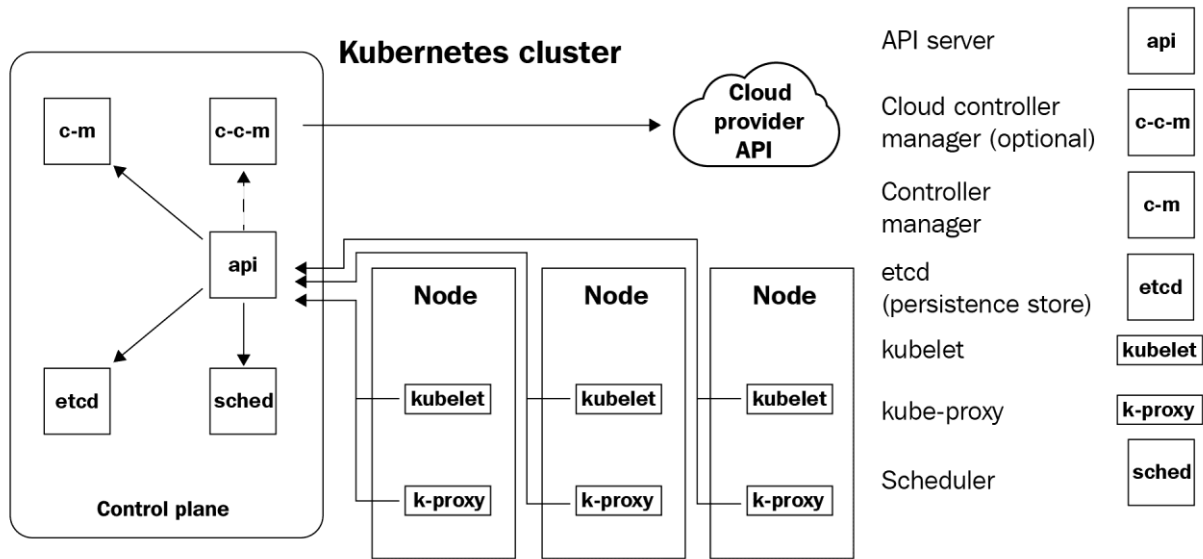
Console

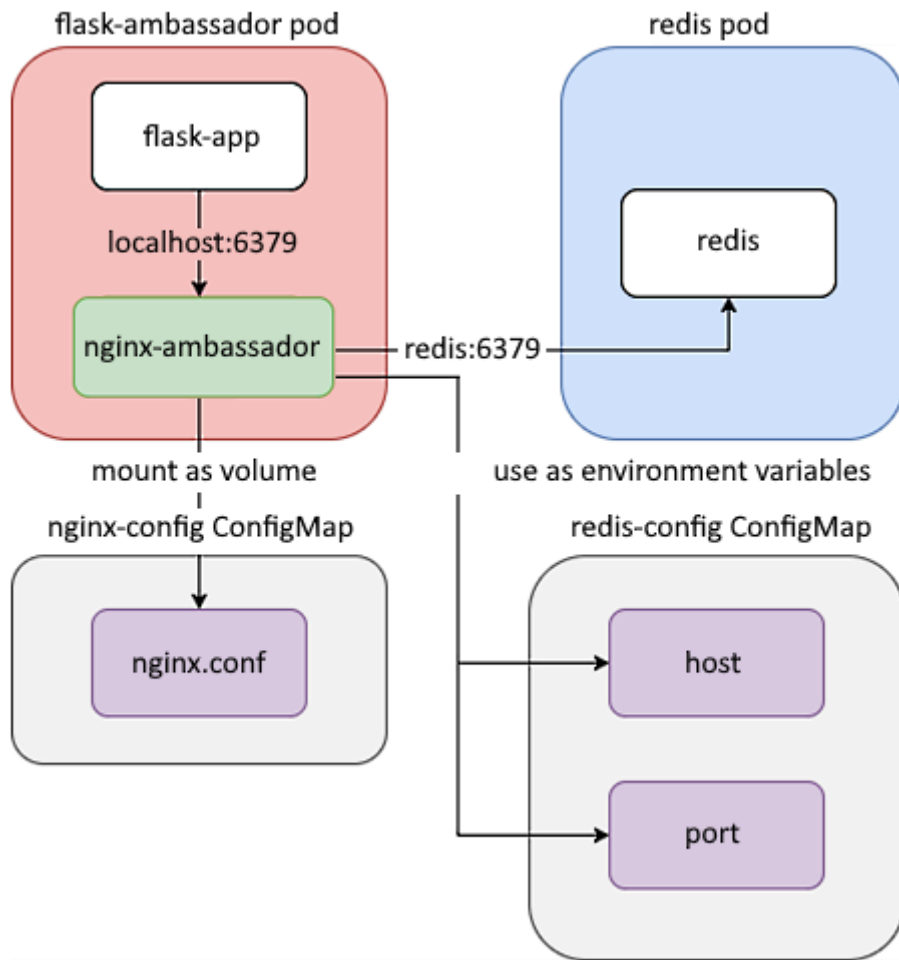
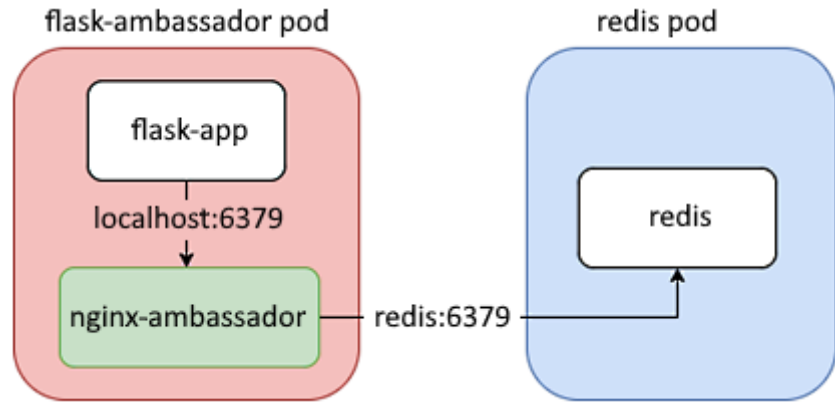
Element	Value
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="guest"}	0
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="guest_nice"}	0
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="idle"}	8601.59
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="iowait"}	63.45
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="irq"}	0
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="nice"}	767.56
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="softirq"}	16.25
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="steal"}	29.04
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="system"}	204.94
node_cpu{cpu="cpu0",instance="172.31.99.49:9100",job="node_exporter",mode="user"}	220.51
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="guest"}	0
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="guest_nice"}	0
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="idle"}	8555.62
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="iowait"}	104.14
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="irq"}	0
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="nice"}	752.6
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="softirq"}	21.74
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="steal"}	44.96
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="system"}	210.2
node_cpu{cpu="cpu1",instance="172.31.99.49:9100",job="node_exporter",mode="user"}	221.86

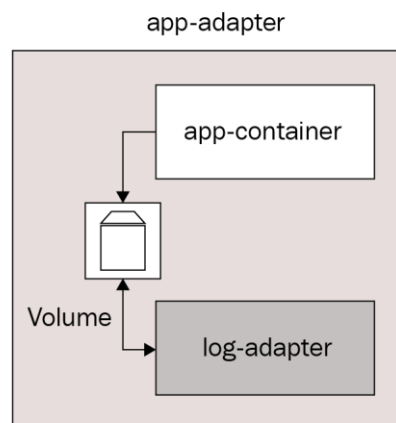
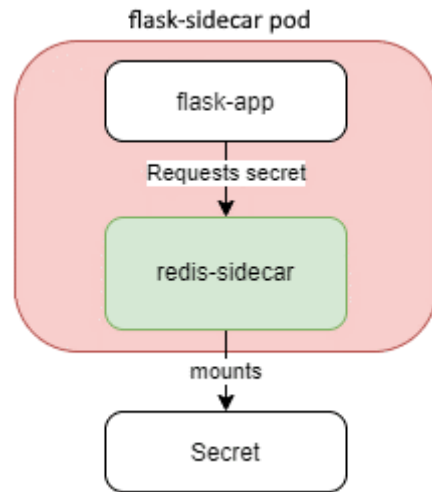
Chapter 3: Creating and Managing Container Images



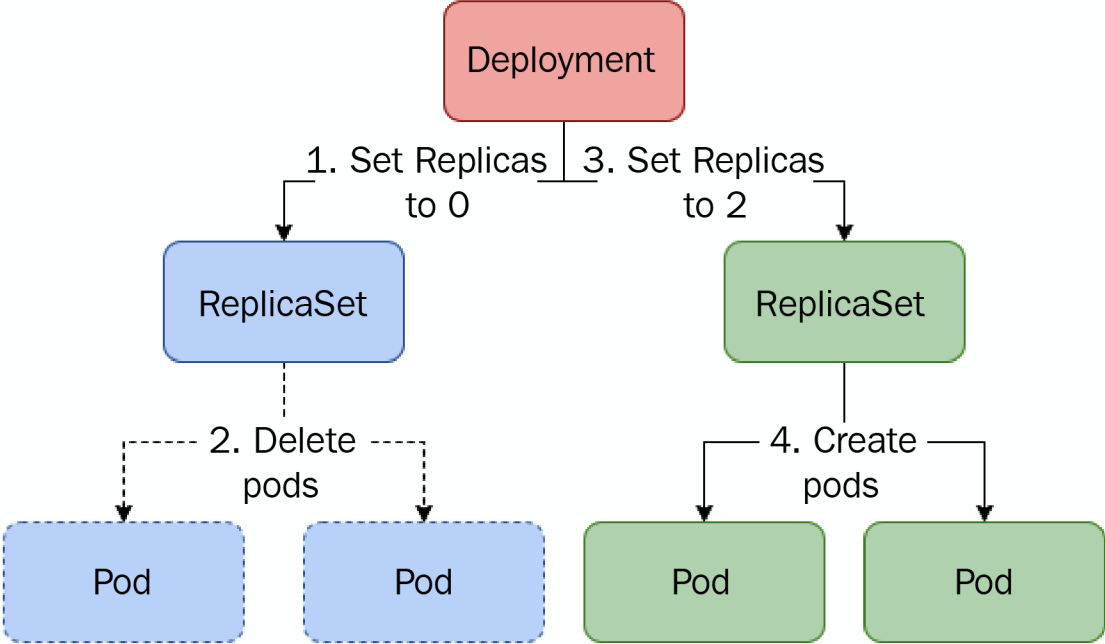
Chapter 4: Container Orchestration with Kubernetes – Part I

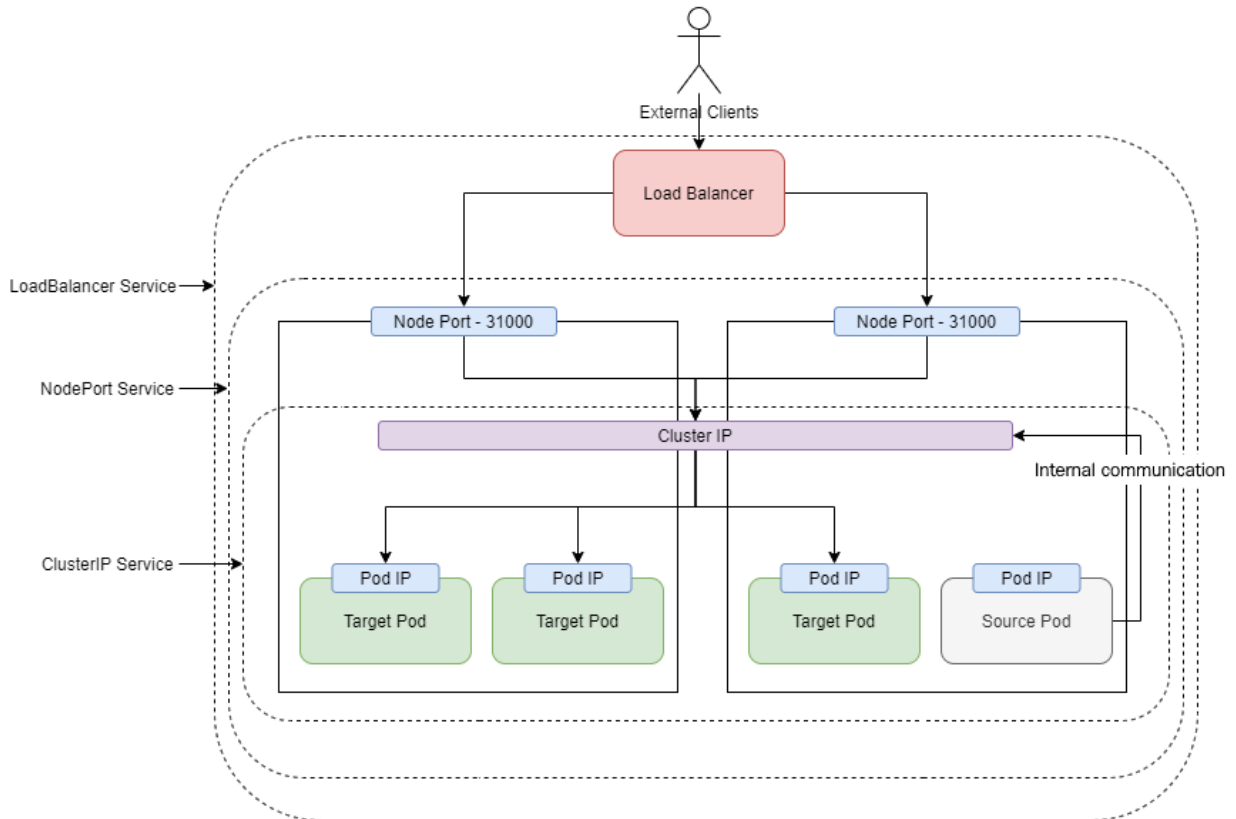
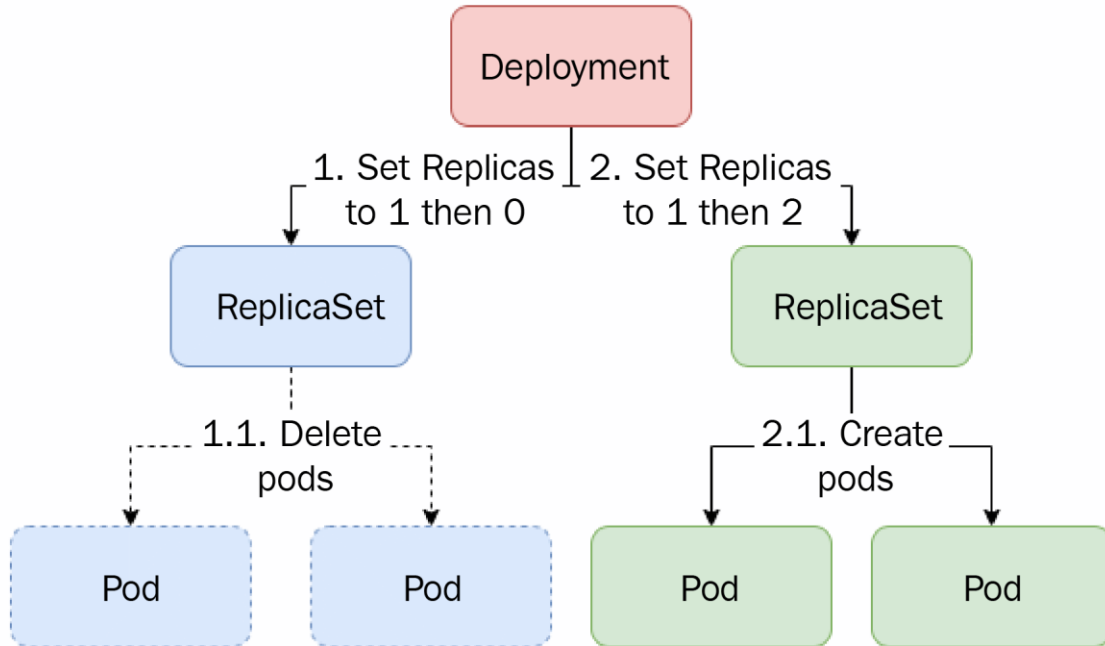


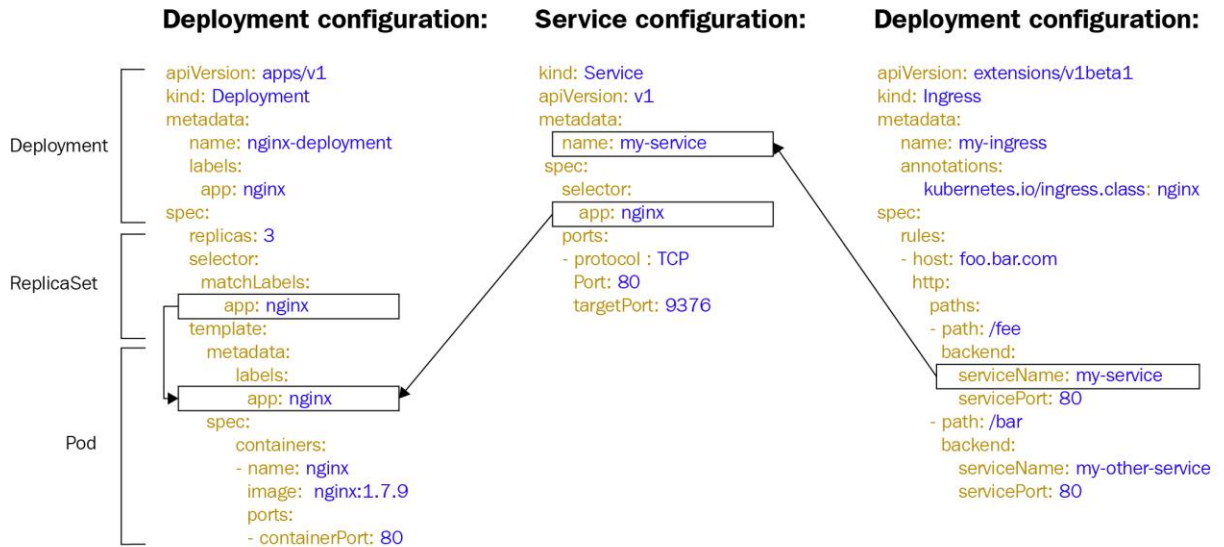
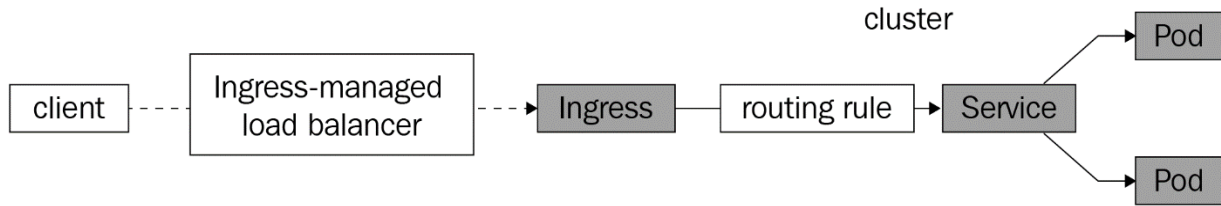


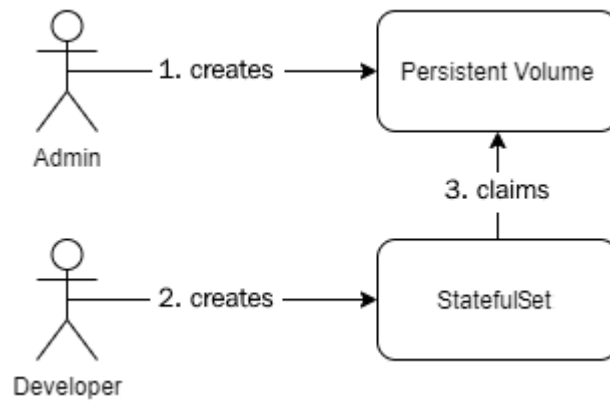
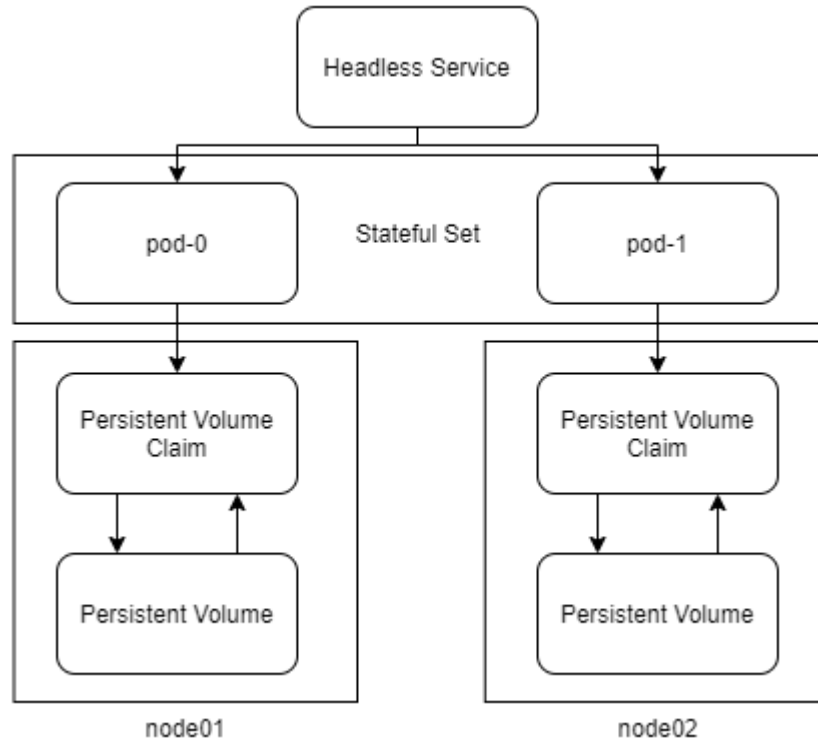


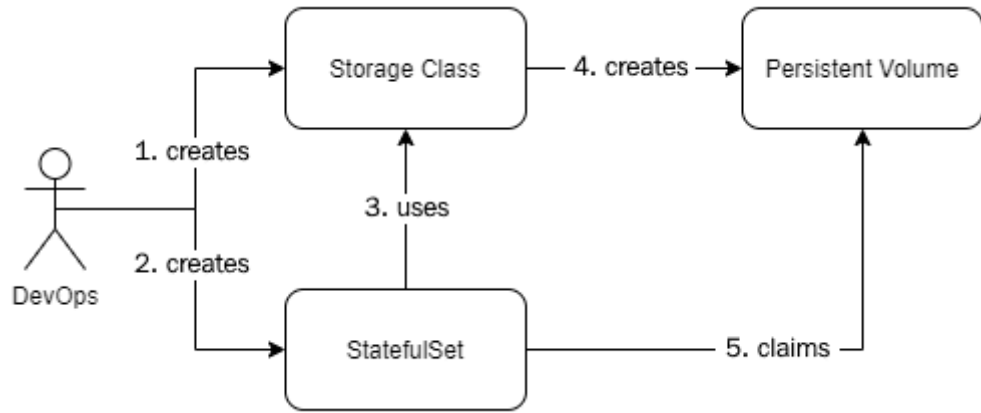
Chapter 5: Container Orchestration with Kubernetes – Part II



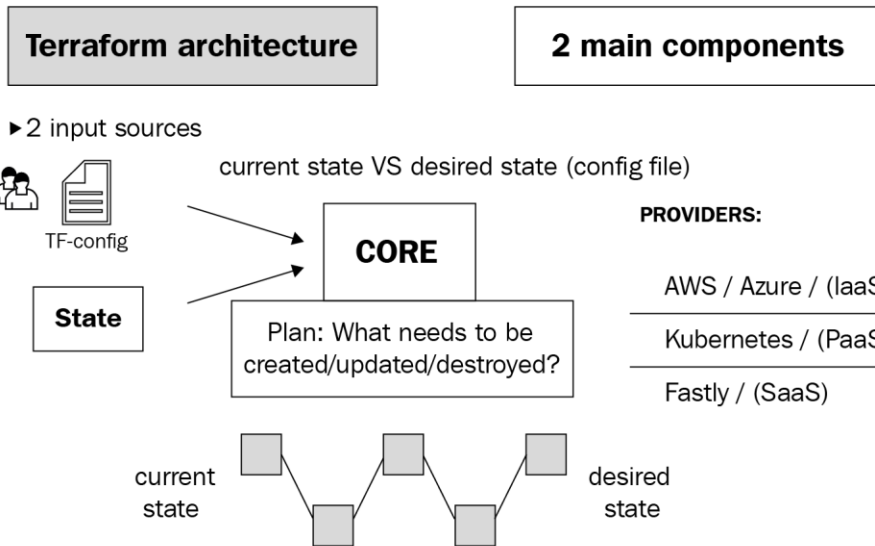








Chapter 6: Infrastructure as Code (IaC) with Terraform



Home > Free Trial > tfstate > tfstate15153 >

tfstate Container

Search (Ctrl+/) << Upload Change access level Refresh Delete

- Overview
- Access Control (IAM)

Settings

- Access policy
- Properties
- Metadata

Authentication method: Access key (Switch to Azure AD User Account)
Location: tfstate

Search blobs by prefix (case-sensitive)

Name
<input type="checkbox"/> example.tfstate

Resource groups


Default Directory

[+](#) Add [⚙️](#) Manage view [↻](#) Refresh [↓](#) Export to CSV [🔗](#) Open query | [🏷️](#) Assign tags | [❤️](#) Feedback

[Subscription == all](#) [Location == all](#) [+🔍 Add filter](#)

Showing 1 to 2 of 2 records.

Name ↑↓

 terraform-ws-dev

 terraform-ws-test

terraform-ws-dev

Resource group

[+](#) Add [☰](#) Edit columns [🗑️](#) Delete resource group [↻](#) Refresh [↓](#) Export to CSV [🔗](#) Open query | [🏷️](#) Assign tags [→](#) Move [∨](#)

Essentials

[Type == all](#) [Location == all](#) [+🔍 Add filter](#)


Showing 1 to 4 of 4 records. Show hidden types ⓘ

Name ↑↓

Type ↑↓

 app-network


Virtual network

 app-nic

Network interface

 httpd

Virtual machine

 httpd-osdisk

Disk

terraform-ws-test

Resource group

[+](#) Add [☰](#) Edit columns [🗑️](#) Delete resource group [↻](#) Refresh [↓](#) Export to CSV [🔗](#) Open query | [🏷️](#) Assign tags [→](#) Move [∨](#)

Essentials

[Type == all](#) [Location == all](#) [+🔍 Add filter](#)


Showing 1 to 4 of 4 records. Show hidden types ⓘ

Name ↑↓

Type ↑↓

 app-network

Virtual network

 app-nic

Network interface

 httpd

Virtual machine

 httpd-osdisk

Disk



tfstate

Container



Upload



Change access level



Refresh



Delete

Authentication method: Access key ([Switch to Azure AD User Account](#))

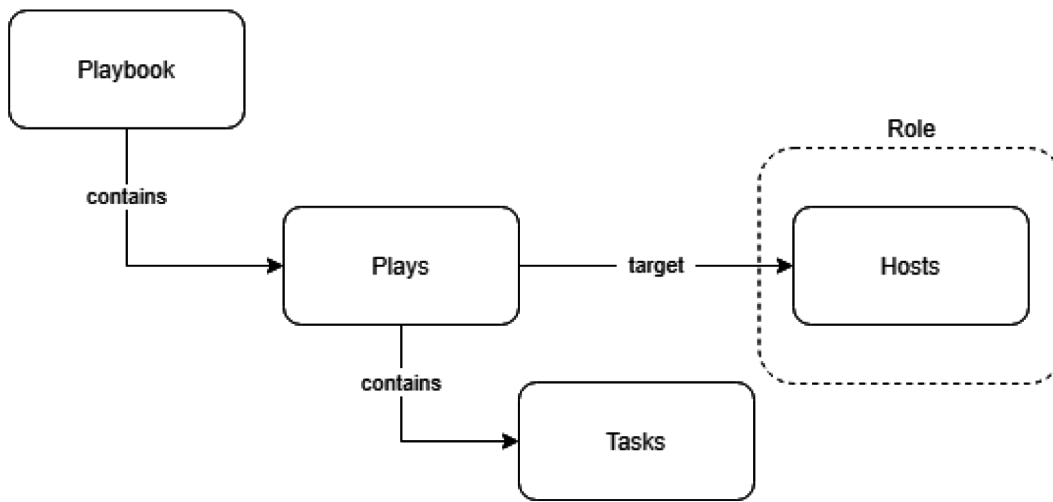
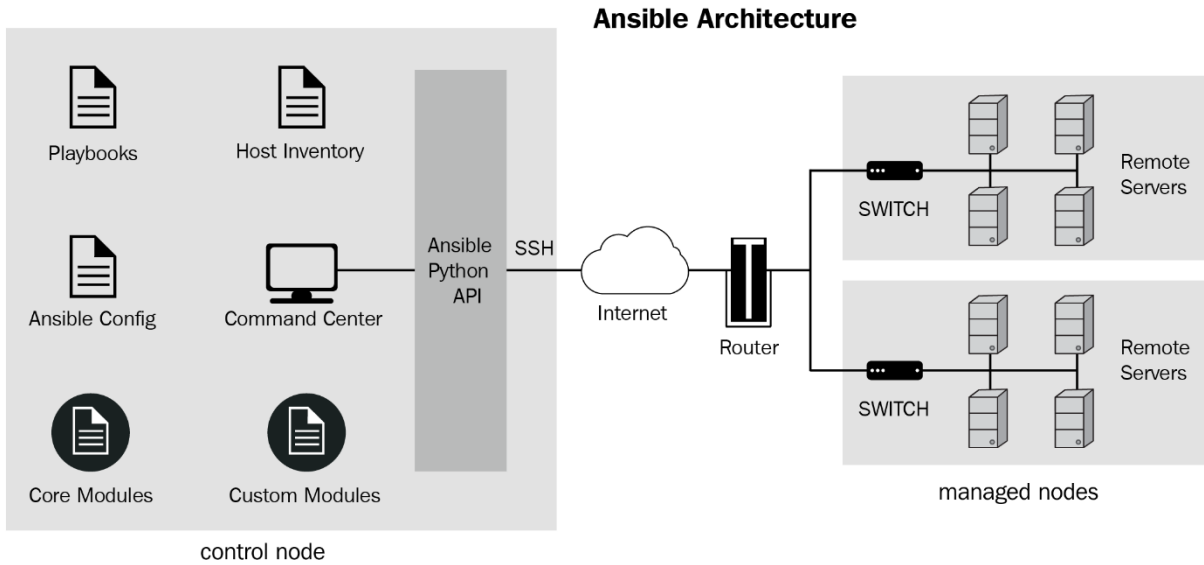
Location: tfstate

ws

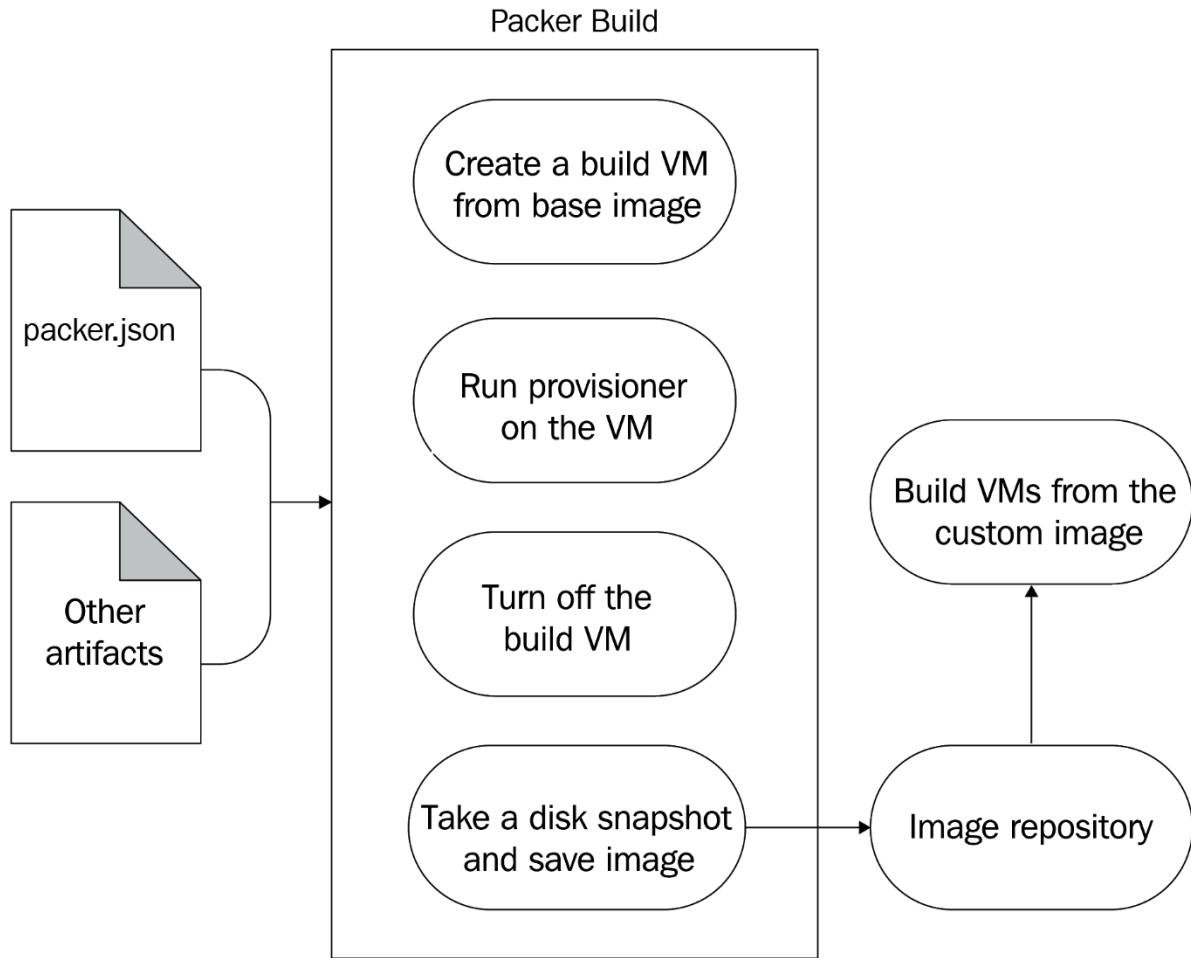
Name

-  ws.tfstateenv:dev
-  ws.tfstateenv:test

Chapter 7: Configuration Management with Ansible



Chapter 8: IaC and Config Management in Action



packer-rg Resource group

Search (Ctrl+/) << + Add Edit columns Delete resource group Refresh Export to CSV

Overview

- Activity log
- Access control (IAM)
- Tags
- Events

Essentials

Filter for any field... Type == all Location == all Add filter

Showing 1 to 1 of 1 records. Show hidden types

Name	Type	Location
apache-webserver	Image	West Europe

[+](#) Add [☰](#) Edit columns [🗑](#) Delete resource group [🔄](#) Refresh [↓](#) Export to CSV



Overview

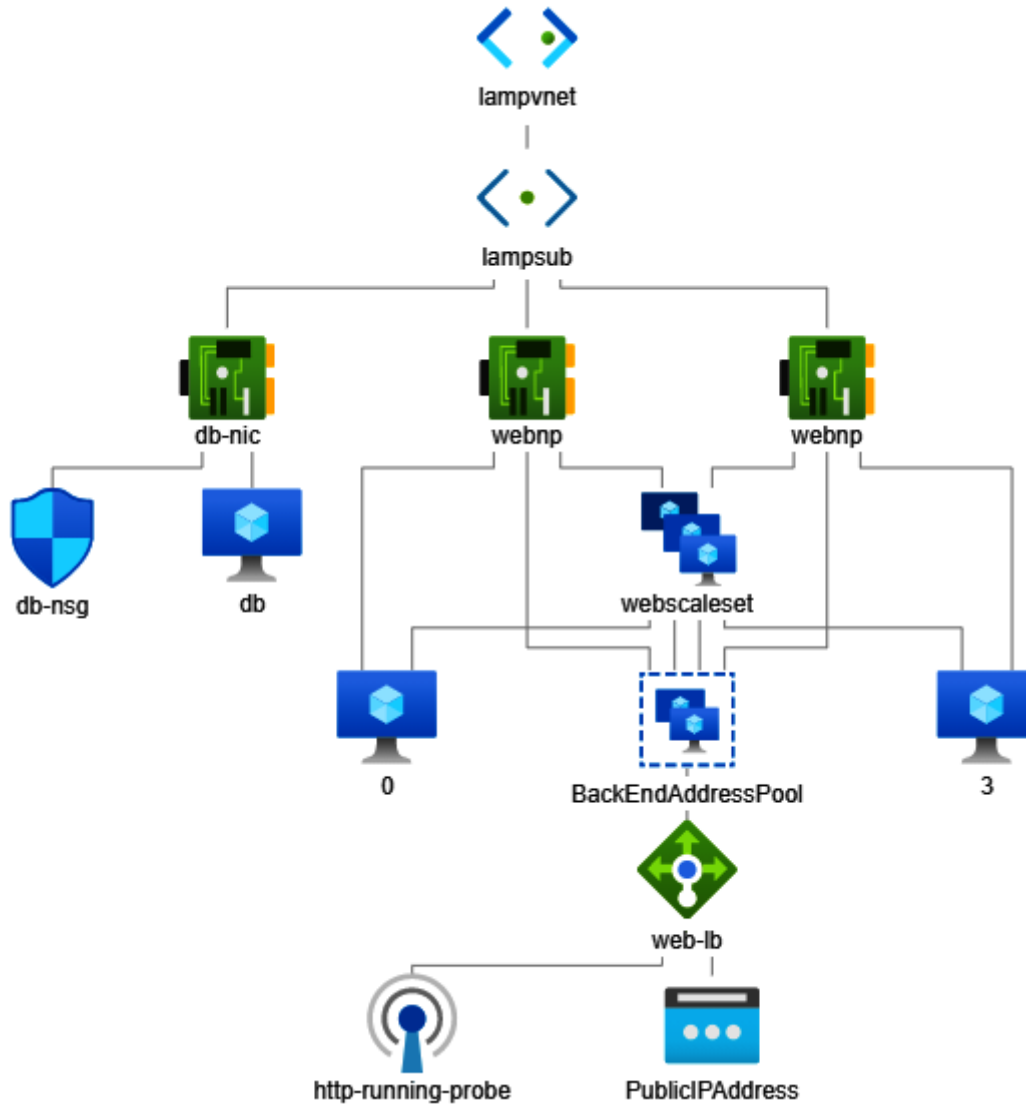
- [Activity log](#)
 - [Access control \(IAM\)](#)
 - [Tags](#)
 - [Events](#)
- Settings**
- [Deployments](#)

Essentials

[Type == all](#) [Location == all](#) [+ Add filter](#)

Showing 1 to 2 of 2 records. Show hidden types ⓘ

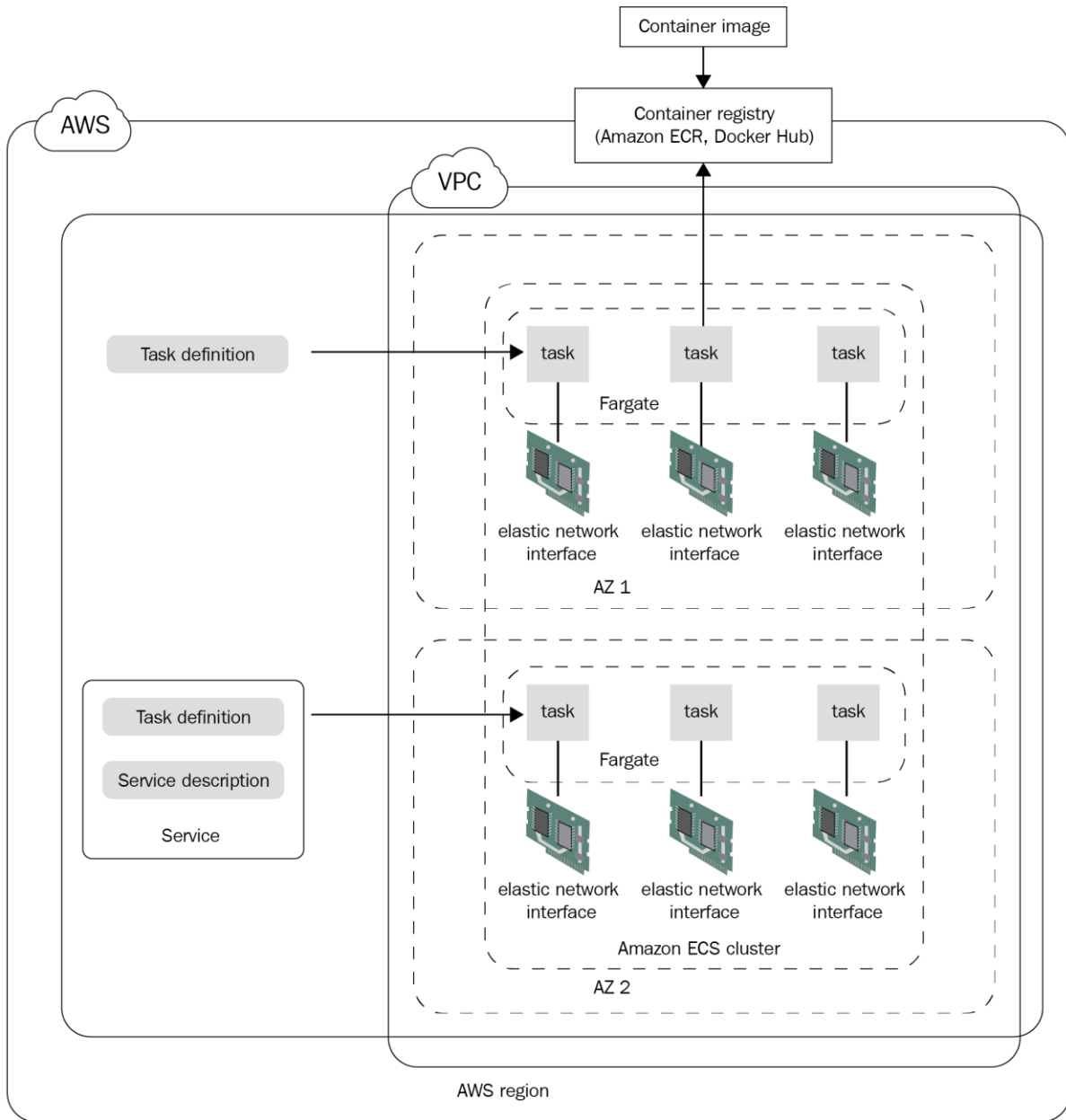
<input type="checkbox"/>	Name ↑↓	Type ↑↓	Location ↑↓
<input type="checkbox"/>	 apache-webserver	Image	West Europe
<input type="checkbox"/>	 mysql-dbserver	Image	West Europe

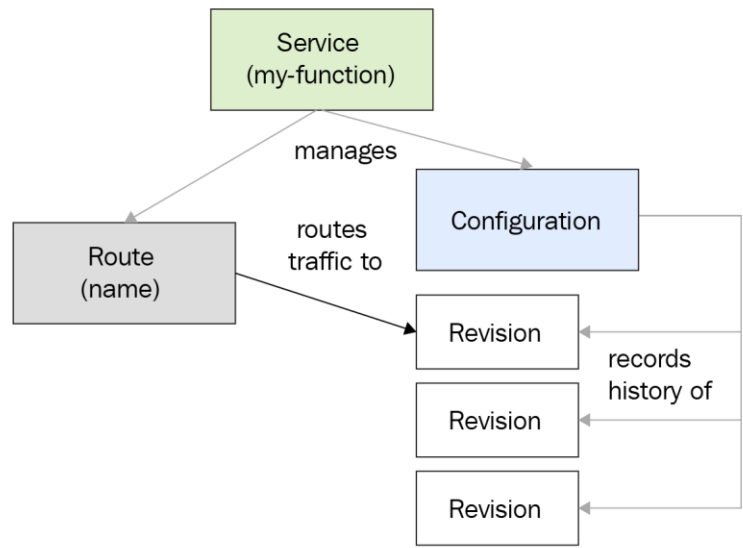
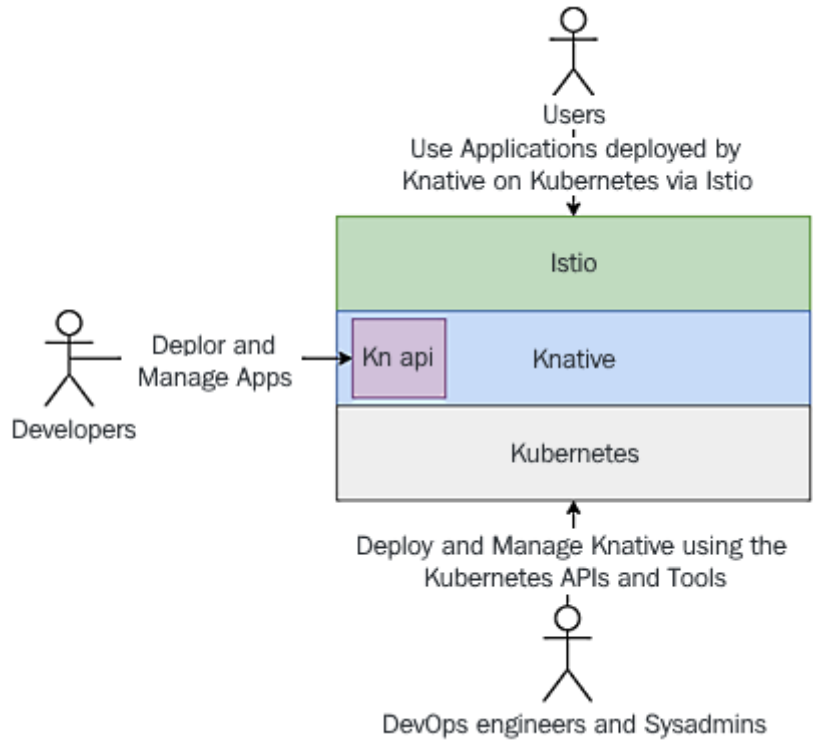


← → ↻ ⚠ Not secure | 40.115.61.69

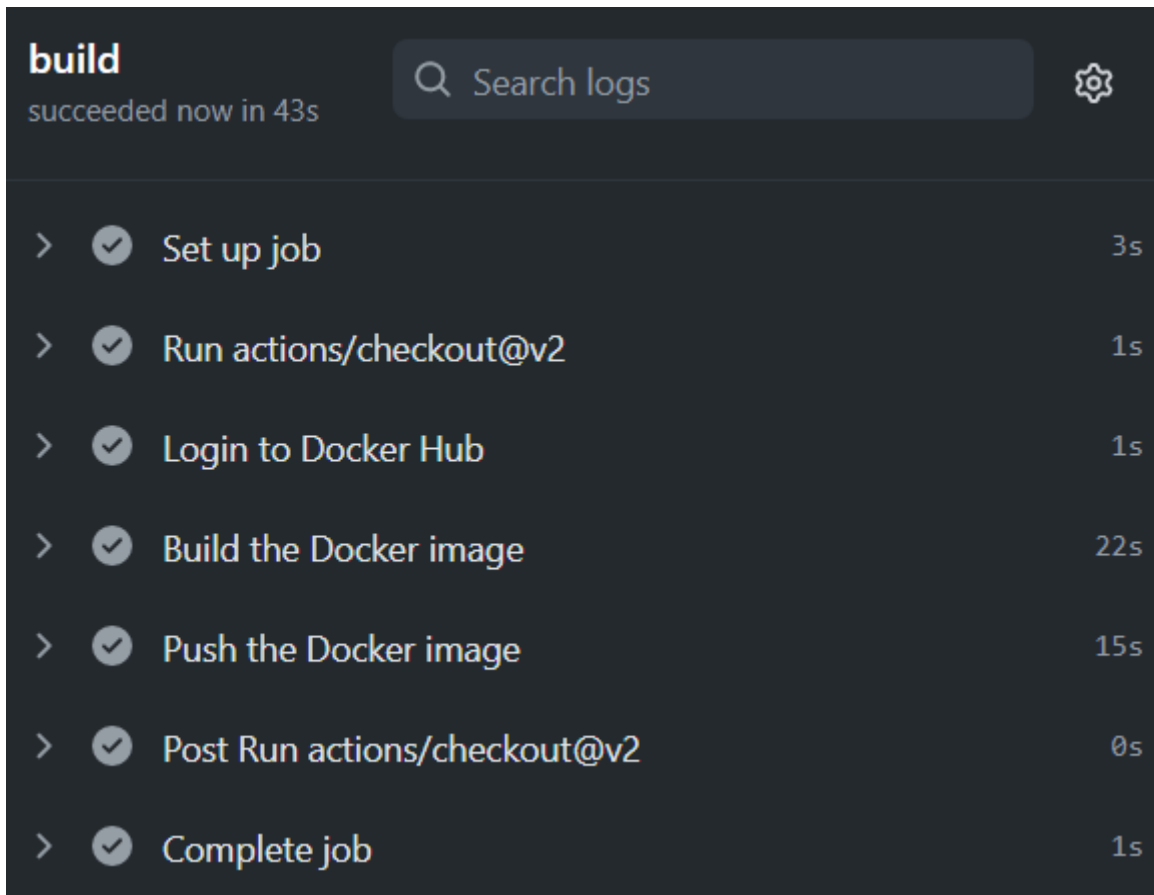
Database Connected successfully

Chapter 9: Containers as a Service (CaaS) and Serverless Computing for Containers






Chapter 10: Continuous Integration




The screenshot shows a GitHub Actions workflow run for a job named 'build'. The status is 'succeeded now in 43s'. At the top right, there is a search bar labeled 'Search logs' and a settings gear icon. The workflow steps are listed below, each with a chevron icon, a checkmark in a circle, the step name, and its duration.


Step	Duration
> ✓ Set up job	3s
> ✓ Run actions/checkout@v2	1s
> ✓ Login to Docker Hub	1s
> ✓ Build the Docker image	22s
> ✓ Push the Docker image	15s
> ✓ Post Run actions/checkout@v2	0s
> ✓ Complete job	1s

bharamicrosystems / flask-app-gh-actions

This repository does not have a description 

 Last pushed: 4 minutes ago

Tags and Scans

 VULNERABILITY SCANNING - DISABLED
[Enable](#)

This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
 latest		4 minutes ago	4 minutes ago








[See all](#)

build

failed 1 minute ago in 26s

🔍 Search logs



- >  Set up job 2s
- >  Run actions/checkout@v2 1s
- >  Login to Docker Hub 2s
- >  Build the Docker image 21s
-  Push the Docker image 0s
- >  Post Run actions/checkout@v2 0s
- >  Complete job 0s

```
93 Step 9/10 : RUN python3 app.test.py
94 ---> Running in 773fed457a22
95 .F
96 =====
97 FAIL: test_index (__main__.AppTestCase)
98 -----
99 Traceback (most recent call last):
100   File "app.test.py", line 9, in test_index
101     self.assertEqual(response.data, b'Hello World!')
102 AssertionError: b'Hello, World!' != b'Hello World!'
103
104 -----
105 Ran 2 tests in 0.006s
106
107 FAILED (failures=1)
108 The command '/bin/sh -c python3 app.test.py' returned a non-zero code: 1
109
110 Error: Process completed with exit code 1.
```

- Push the Docker image 0s
- > Post Run actions/checkout@v2 0s
- > Complete job 0s

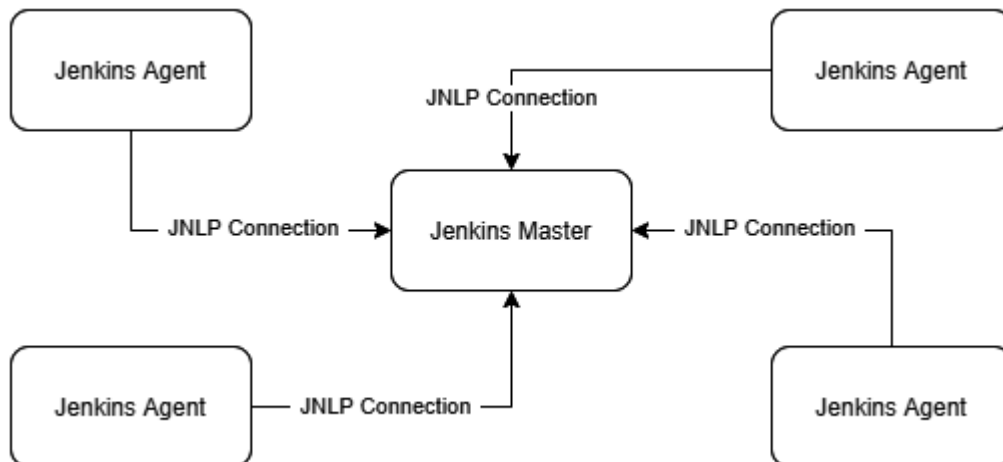
build

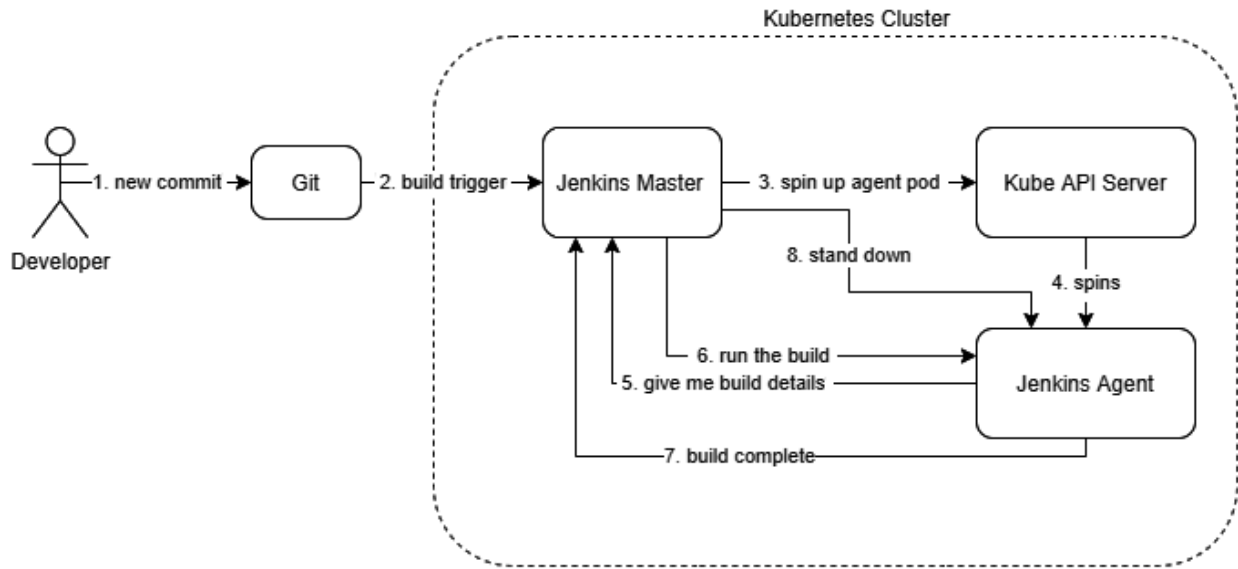
succeeded now in 43s

Search logs



- > ✓ Set up job 3s
- > ✓ Run actions/checkout@v2 1s
- > ✓ Login to Docker Hub 1s
- > ✓ Build the Docker image 23s
- > ✓ Push the Docker image 15s
- > ✓ Post Run actions/checkout@v2 0s
- > ✓ Complete job 0s





Jenkins

?
🔔 1
🛡️ 1

Dashboard ▶

- New Item
- People
- Build History
- Manage Jenkins
- New View
- Build Queue** ^

No builds in the queue.

- Build Executor Status** ^

 - 1 Idle
 - 2 Idle

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

[add description](#)

Start building your software project

Create a job →

Set up a distributed build

Set up an agent →

Configure a cloud →

Learn more about distributed builds ↗

[REST API](#) **Jenkins 2.281**



Configure Global Security

Authentication

Disable remember me

Security Realm

- Delegate to servlet container ?
- Jenkins' own user database ?
- Allow users to sign up ?
- None

Authorization

- Anyone can do anything ?
- Legacy mode ?
- Logged-in users can do anything ?
- Allow anonymous read access ?

Markup Formatter

Markup Formatter

Save

Apply

Configure Clouds

Add a new cloud ▾

Save

Apply

Configure Clouds

 **Kubernetes**

Name



kubernetes

Kubernetes Cloud details...

Pod Templates...

Add a new cloud ▾

Delete cloud

Save

Apply



Kubernetes

Name



kubernetes

Kubernetes URL



https://35.224.6.58

Use Jenkins Proxy



Kubernetes server certificate key



Disable https certificate check




Kubernetes Namespace

Credentials

- none -



 Add



Connected to Kubernetes v1.18.12-gke.1210

Test Connection

Jenkins URL



https://jenkins-service:8080

Jenkins tunnel



jenkins-service:50000

Connection Timeout



5

Read Timeout



15


Concurrency Limit



10

Pod Labels



 **Pod Label**

Key



jenkins

Value



agent

Pod Templates

 Pod Template

Name



Namespace



Labels



Usage



Pod template to inherit from



Containers



Add Container ▼

List of container in the agent pod

Environment variables



Add Environment Variable ▼



Container Template

Name



jnlp

Docker image



bharamicrosystems/jenkins-jnlp-kaniko

Always pull image



Working directory



/home/jenkins/agent

Command to run



Arguments to pass to the command



Allocate pseudo-TTY



Environment Variables



Add Environment Variable ▾

List of environment variables to set in agent pod

Save

Apply

Volumes



Secret Volume

Secret name



Mount path



Default mode



Optional



Delete Volume

ImagePullSecrets



Image Pull Secret

Name



Delete Image Pull Secret

Add Image Pull Secret

Image pull secrets

Service Account



Save

Apply

General

Source Code Management

Build Triggers

Build Environment

Build

Post-build Actions

None

Git

Repositories ?

Repository URL ?

https://github.com/bharatmicrosystems/flask-app-jenkins.git

Credentials ?

- none -

 Add

Advanced...

Add Repository

Branches to build

Branch Specifier (blank for 'any') X ?

*/main

Add Branch

Build Triggers

Trigger builds remotely (e.g., from scripts) ?

Build after other projects are built ?

Build periodically ?

Poll SCM ?

Schedule ?

⚠ Do you really mean "every minute" when you say "***"? Perhaps you meant "H*****" to poll once per hour**
Would last have run at Saturday, March 6, 2021 3:37:40 PM UTC; would next run at Saturday, March 6, 2021 3:37:40 PM UTC.

Ignore post-commit hooks ?

Build

Execute shell X ?

Command

```
chmod +x build.sh && ./build.sh bharamicrosystems/flask-app latest
```

See [the list of available environment variables](#)

[Advanced...](#)

- [Back to Dashboard](#)
- Status**
- [Changes](#)
- [Workspace](#)
- Build Now**
- [Configure](#)
- [Delete Project](#)
- [Rename](#)
- Build History** trend ^
-
- #1** X
(pending—Waiting for next available executor)
- [Atom feed for all](#) [Atom feed for failures](#)

Project flask-app-jenkins

[add description](#)
[Disable Project](#)

- [Workspace](#)
- [Recent Changes](#)






Permalinks

```

Collecting Werkzeug>=0.15
  Downloading Werkzeug-1.0.1-py2.py3-none-any.whl (298 kB)
Collecting click>=5.1
  Downloading click-7.1.2-py2.py3-none-any.whl (82 kB)
Collecting MarkupSafe>=0.23
  Downloading MarkupSafe-1.1.1.tar.gz (19 kB)
Building wheels for collected packages: MarkupSafe
  Building wheel for MarkupSafe (setup.py): started
  Building wheel for MarkupSafe (setup.py): finished with status 'done'
  Created wheel for MarkupSafe: filename=MarkupSafe-1.1.1-cp37-cp37m-linux_x86_64.whl size=17026
  sha256=ed65c6a2b98932cf4c3f02c3359d80d24f71a17debb91eb52832331c4419cdee
  Stored in directory: /root/.cache/pip/wheels/b9/d9/ae/63bf9056b0a22b13ade9f6b9e08187c1bb71c47ef21a8c9924
Successfully built MarkupSafe
Installing collected packages: MarkupSafe, Werkzeug, Jinja2, itsdangerous, click, flask
Successfully installed Jinja2-2.11.3 MarkupSafe-1.1.1 Werkzeug-1.0.1 click-7.1.2 flask-1.1.2 itsdangerous-1.1.0
[36mINFO[0m[0028] Taking snapshot of full filesystem...
[36mINFO[0m[0033] EXPOSE 5000
[36mINFO[0m[0033] cmd: EXPOSE
[36mINFO[0m[0033] Adding exposed port: 5000/tcp
[36mINFO[0m[0033] Using files from context: [/home/jenkins/agent/workspace/flask-app-jenkins]
[36mINFO[0m[0033] COPY . .
[36mINFO[0m[0033] Taking snapshot of files...
[36mINFO[0m[0033] RUN python3 app.test.py
[36mINFO[0m[0033] cmd: /bin/sh
[36mINFO[0m[0033] args: [-c python3 app.test.py]
..
-----
Ran 2 tests in 0.009s

OK
[36mINFO[0m[0033] Taking snapshot of full filesystem...
[36mINFO[0m[0037] CMD ["flask", "run"]
Finished: SUCCESS

```

General	Source Code Management	Build Triggers	Build Environment	Build	Post-build Actions
<input type="checkbox"/>		Trigger builds remotely (e.g., from scripts)			
<input type="checkbox"/>		Build after other projects are built			
<input type="checkbox"/>		Build periodically			
<input checked="" type="checkbox"/>		GitHub hook trigger for GITScm polling			
<input type="checkbox"/>		Poll SCM			

Webhooks / Manage webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, `x-www-form-urlencoded`, etc). More information can be found in our [developer documentation](#).

Payload URL *

Content type

Secret



Build History

trend ^



#2



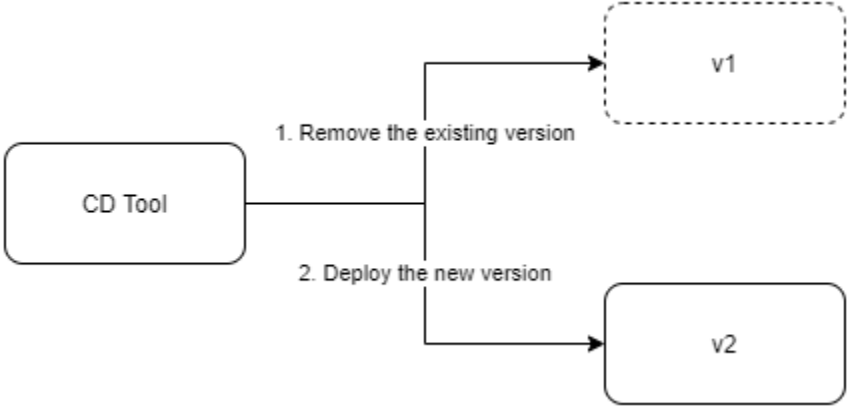
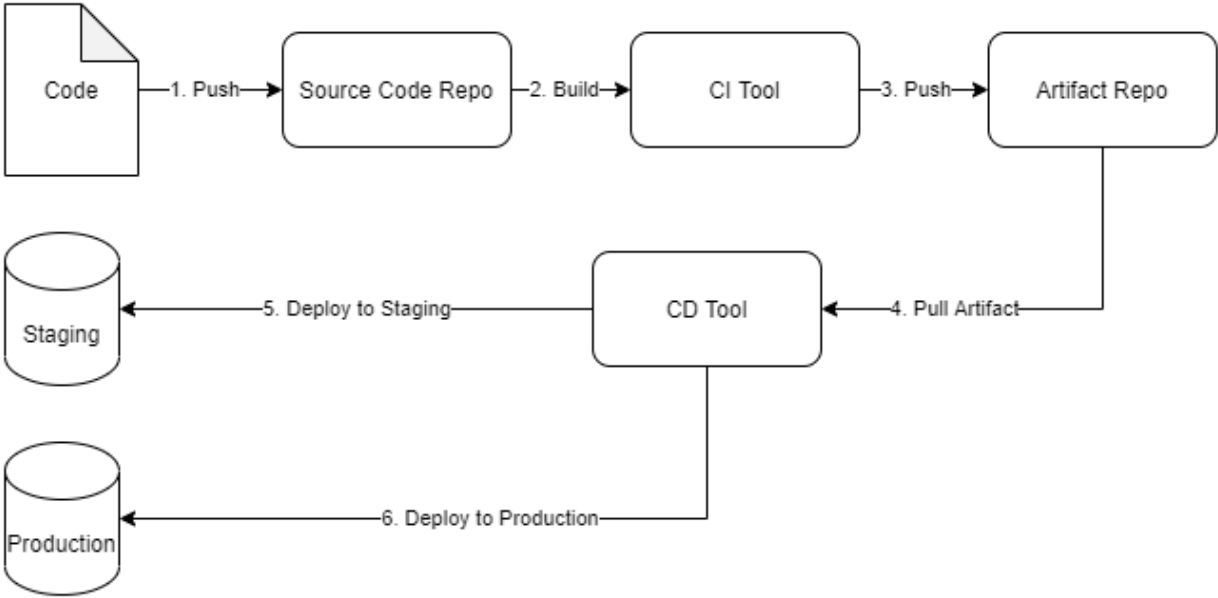
(pending—In the quiet period. Expires in 0.39 sec)

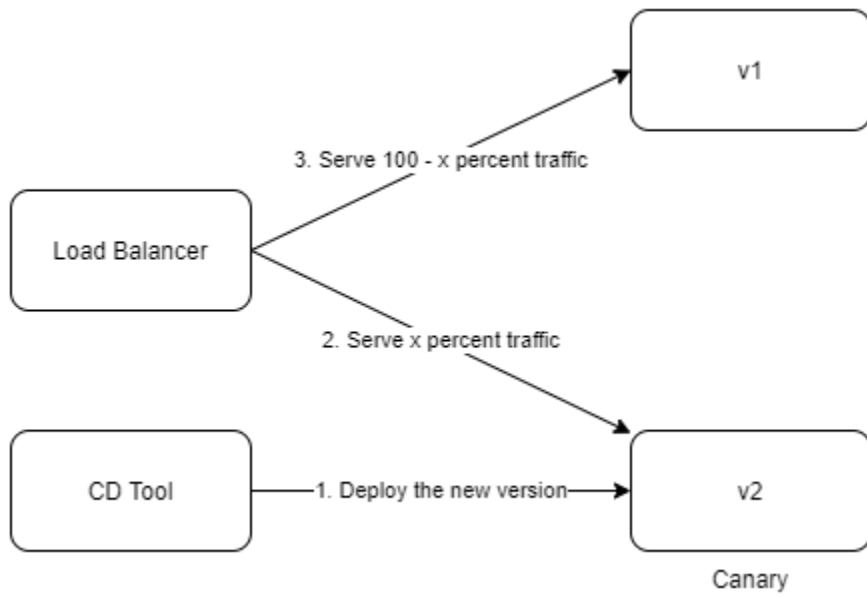
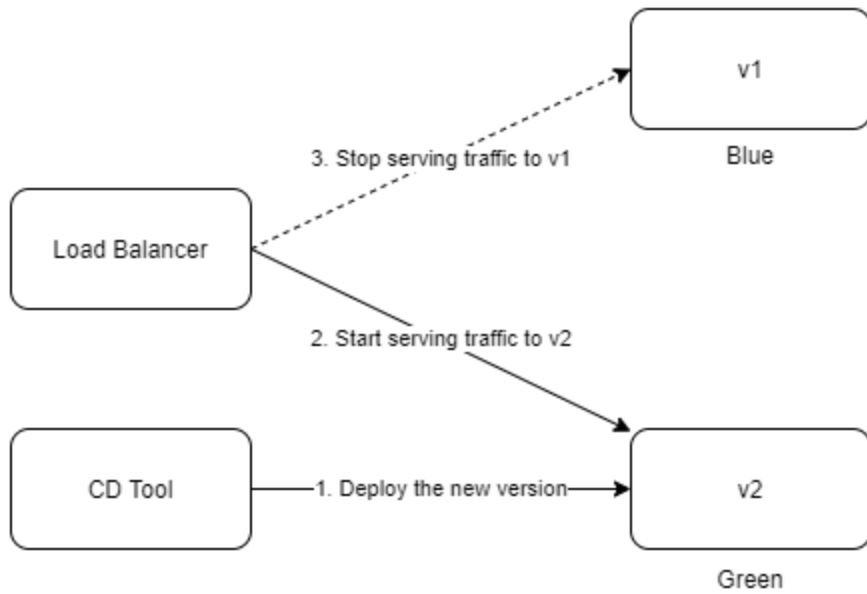
✔ Succeeded

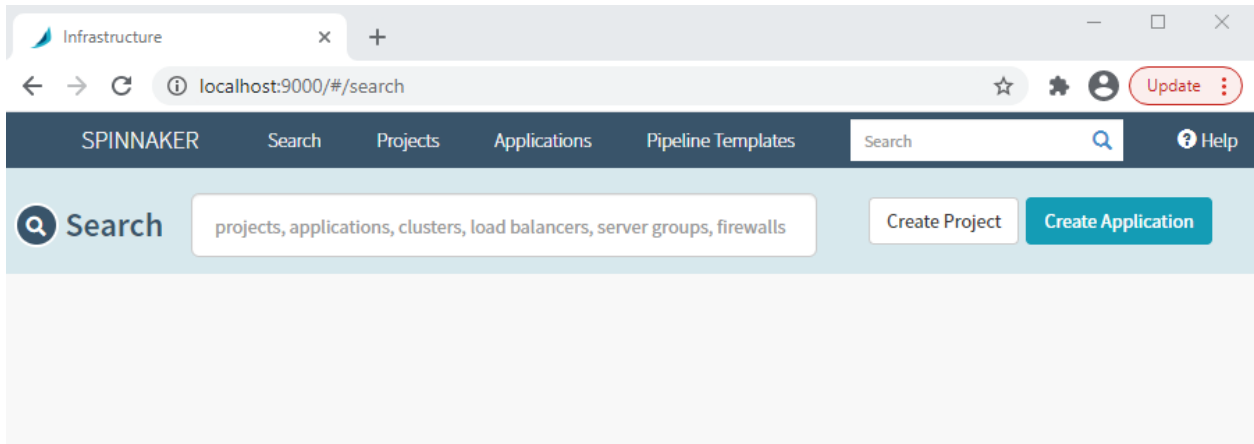
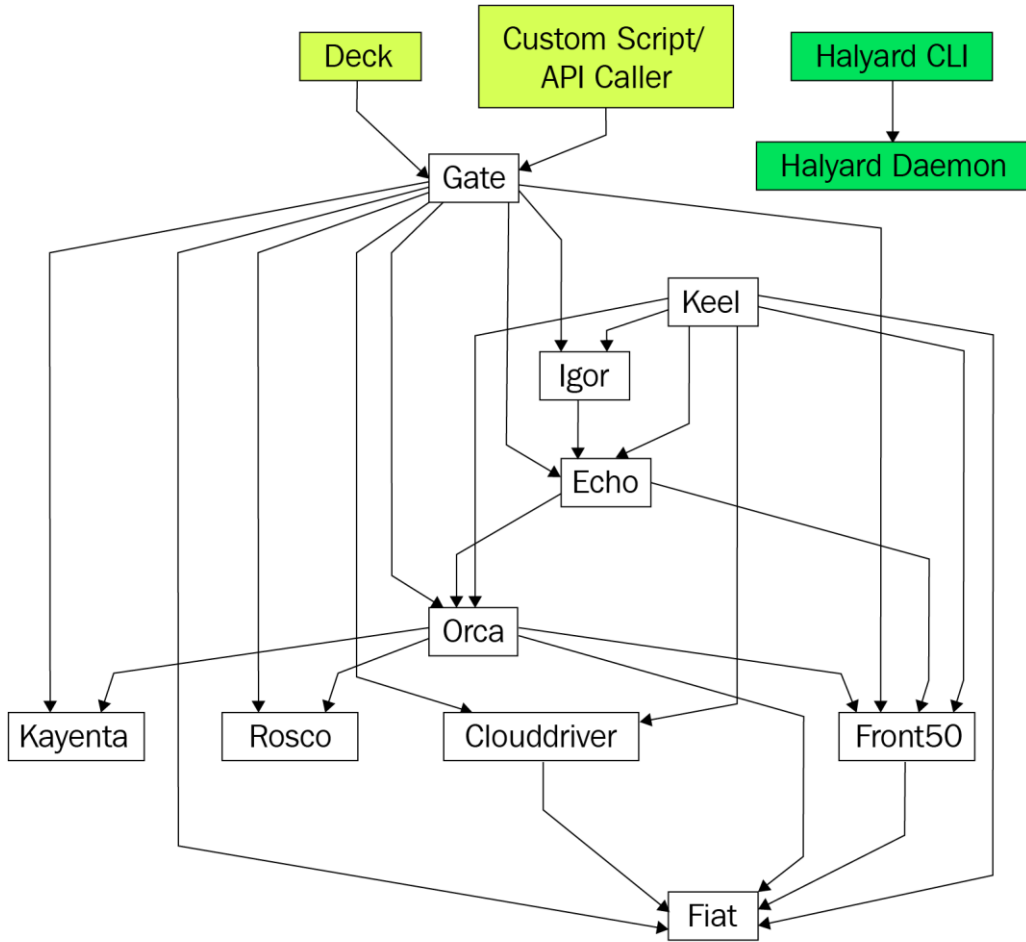
Start time: [1 minute ago](#)

```
125 Step 9/10 : RUN python3 app.test.py
126 ---> Running in 8d1d4ba68db0
127 ..
128 -----
129 Ran 2 tests in 0.005s
130
131 OK
132 Removing intermediate container 8d1d4ba68db0
133 ---> b40419bc02e2
134 Step 10/10 : CMD ["flask", "run"]
135 ---> Running in fcd19fa41266
136 Removing intermediate container fcd19fa41266
137 ---> 546f49191db4
138 Successfully built 546f49191db4
139 Successfully tagged bharamicrosystems/flask-app:latest
140
141 [Container] 2021/03/07 16:01:46 Phase complete: BUILD State: SUCCEEDED
142 [Container] 2021/03/07 16:01:46 Phase context status code: Message:
143 [Container] 2021/03/07 16:01:46 Entering phase POST_BUILD
144 [Container] 2021/03/07 16:01:46 Running command docker push bharamicrosystems/flask-app
145 The push refers to repository [docker.io/bharamicrosystems/flask-app]
146 ac2cfe9ff0f1: Preparing
147 76429a61e3d3: Preparing
```

Chapter 11: Continuous Deployment/Delivery with Spinnaker







New Application



Name *	<input type="text" value="flask-app"/>
Owner Email *	<input type="text" value="foo@bar.com"/>
Repo Type	<input type="text" value="github"/>
Repo Project	<input type="text" value="YOUR_REPO_NAME"/>
Repo Name	<input type="text" value="flask-app"/>
Description	<input type="text" value="Enter a description"/>
Instance Health	<input type="checkbox"/> Consider only cloud provider health when executing tasks ⓘ <input type="checkbox"/> Show health override option for each operation ⓘ
Instance Port ⓘ	<input type="text" value="80"/>
Pipeline Behavior	<input type="checkbox"/> Enable restarting running pipelines ⓘ <input type="checkbox"/> Enable re-run button on active pipelines ⓘ

* Required

Cancel

Create

Create New Pipeline



Type	<input type="text" value="Pipeline"/>
Pipeline Name	<input type="text" value="cd-pipeline"/>

Cancel

Create

Automated Triggers

Type Docker Registry x ▼ Remove trigger

Define Image ID Select from list ▼

Registry Name my-docker-registry x ▼ ↻

Organization bharamicrosystems x ▼

Image bharamicrosystems/flask-app x ▼

Tag

(Optional) If specified, only the tags that match this Java Regular Expression will be triggered. Leave empty to trigger builds on any tag pushed.
Builds will not be triggered off the latest tag or updates to existing tags.

Artifact Constraints ⊕ Select or define an artifact... ▼

Trigger Enabled

Set Staging Namespace

Stage type: Evaluate Variables

Evaluates variables for use in downstream stages.

Stage Name

Remove stage

Depends On ⊕

Edit stage as JSON

Evaluate Variables Configuration

Define one or more variables by assigning a **name** (*string*) and a **value** (*SpEL Expression*).

The evaluated variables can be used in downstream stages, referencing them by name.



Variable Previews

This pipeline has never been executed. If you run this pipeline at least once, Spinnaker will show previews of the variables on this screen.

Variable Name

Variable Value



+ Add Variable

Set Staging Namespace

Stage type: Evaluate Variables

Evaluates variables for use in downstream stages.

Stage Name

Set Staging Namespace

Remove stage

Depends On

Select...

Edit stage as JSON

Evaluate Variables Configuration

Define one or more variables by assigning a **name** (*string*) and a **value** (*SpEL Expression*).
The evaluated variables can be used in downstream stages, referencing them by name.



Variable Previews

This pipeline has never been executed. If you run this pipeline at least once, Spinnaker will show previews of the variables on this screen.

Variable Name

Variable Value

namespace

staging



Add Variable

Manual Judgment

Stage type: Manual Judgment

Waits for user approval before continuing

Stage Name

Manual Judgment

Depends On

Deploy to Staging



Select...

Set Production Namespace

Stage type: Evaluate Variables

Evaluates variables for use in downstream stages.

Stage Name

Set Production Namespace

Remove stage

Depends On

Manual Judgment



Select...

Edit stage as JSON

Evaluate Variables Configuration

Define one or more variables by assigning a **name** (*string*) and a **value** (*SpEL Expression*).
The evaluated variables can be used in downstream stages, referencing them by name.



Variable Previews

This pipeline has never been executed. If you run this pipeline at least once, Spinnaker will show previews of the variables on this screen.

Variable Name

Variable Value

namespace

production



Add Variable

Deploy to Production

Stage type: Deploy (Manifest)

Deploy a Kubernetes manifest yaml/json file.

Stage Name

Deploy to Production

Remove stage

Depends On

Set Production Namespace

Edit stage as JSON

Select...

Deploy (Manifest) Configuration

Basic Settings

Account

my-k8s-account

Override Namespace

Manifest Configuration

Manifest Source

Text

Artifact

Manifest Artifact

Artifact from execution context

Account

bharatmicrosystems

Content URL

https://api.github.com/repos/bharatmicrosystems/flask-app/contents/manifest.yaml

Commit/Branch

master

MY-K8S-ACCOUNT

cd-pipeline 1

Trigger: enabled

Configure

Start Manual Execution

DOCKER REGISTRY

bharatmicrosystems/flask-app:1
half a minute ago

00:00

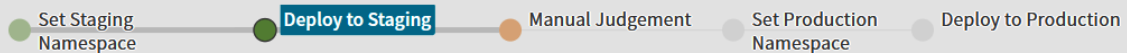
00:13

00:37

Status: RUNNING

Duration: 00:51

Execution Details



STAGE DETAILS: DEPLOY TO STAGING

Duration: 00:13

Step	Started	Duration	Status
Deploy to Staging	2021-03-29 09:05:25 PDT	00:13	SUCCEEDED

DEPLOY TO STAGING

Deploy Status

Task Status

Artifact Status

MY-K8S-ACCOUNT **cd-pipeline** Trigger: enabled [Configure](#) [Start Manual Execution](#)

DOCKER REGISTRY
bharamicrosystems/flask-app:1
4 minutes ago
Status: **SUCCEEDED**
Duration: 03:24

▼ Execution Details

Set Staging Namespace → Deploy to Staging → Manual Judgement → Set Production Namespace → **Deploy to Production**

STAGE DETAILS: DEPLOY TO PRODUCTION
Duration: 00:07

Step	Started	Duration	Status
Deploy to Production	2021-03-29 09:08:42 PDT	00:07	SUCCEEDED

[Deploy Status](#) | [Task Status](#) | [Artifact Status](#)

MY-K8S-ACCOUNT **cd-pipeline** 1 Trigger: enabled [Configure](#) [Start Manual Execution](#)

DOCKER REGISTRY
bharamicrosystems/flask-app:2
less than 5 seconds ago
Status: **RUNNING**
Duration: 00:21

► Execution Details

DOCKER REGISTRY
bharamicrosystems/flask-app:1
8 minutes ago
Status: **SUCCEEDED**
Duration: 03:24

► Execution Details

MY-K8S-ACCOUNT **cd-pipeline** Trigger: enabled [Configure](#) [Start Manual Execution](#)

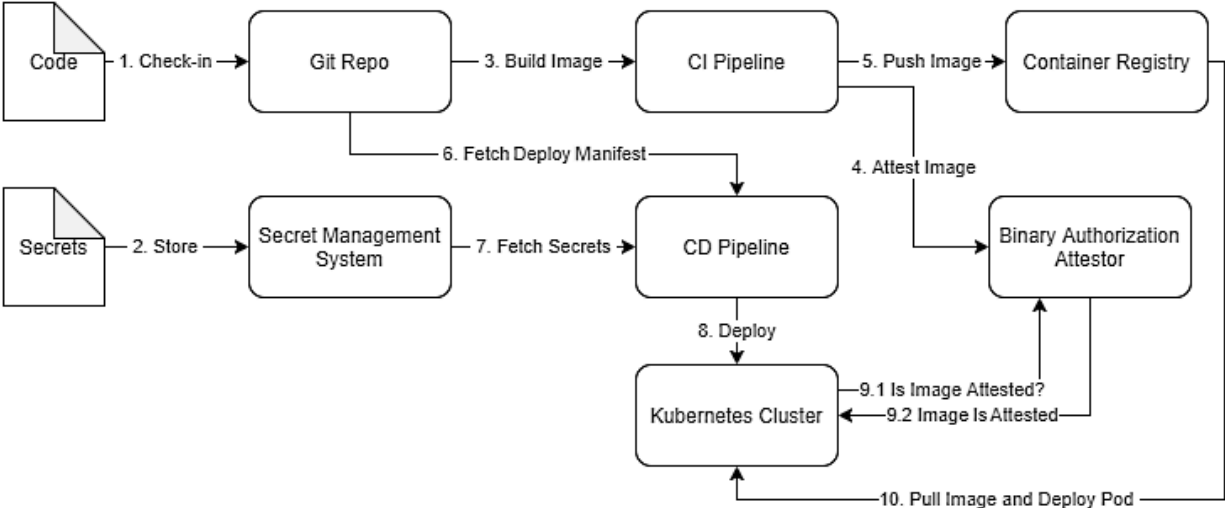
DOCKER REGISTRY
bharamicrosystems/flask-app:2
2 minutes ago
Status: **SUCCEEDED**
Duration: 02:06

► Execution Details

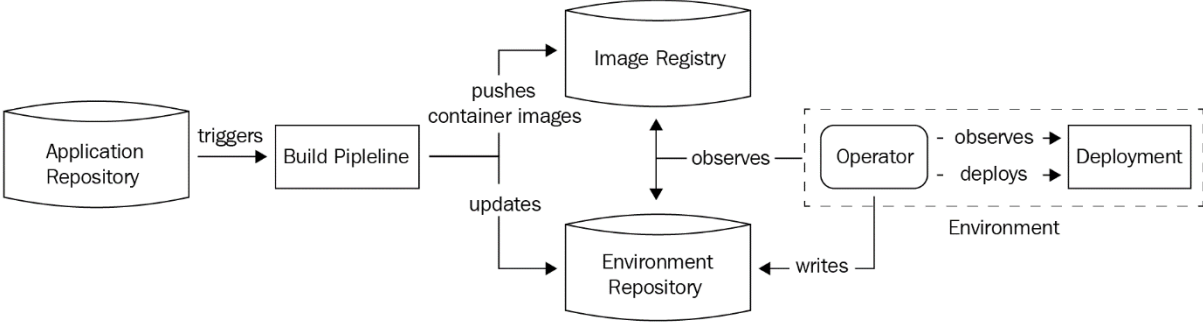
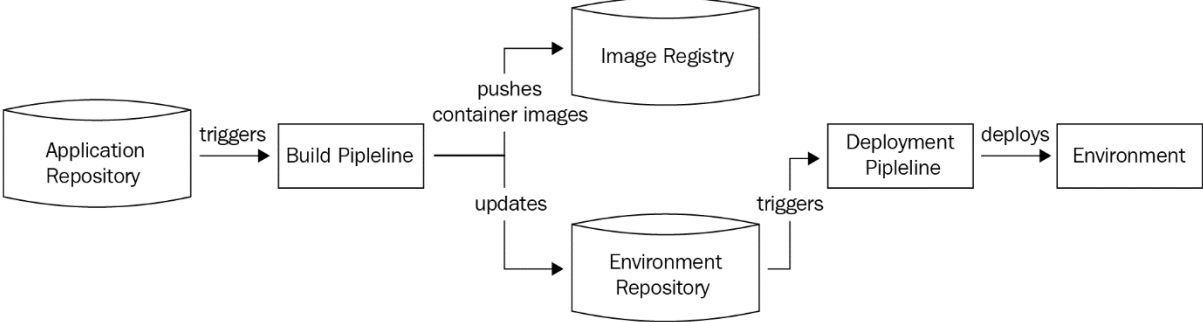
DOCKER REGISTRY
bharamicrosystems/flask-app:1
10 minutes ago
Status: **SUCCEEDED**
Duration: 03:24

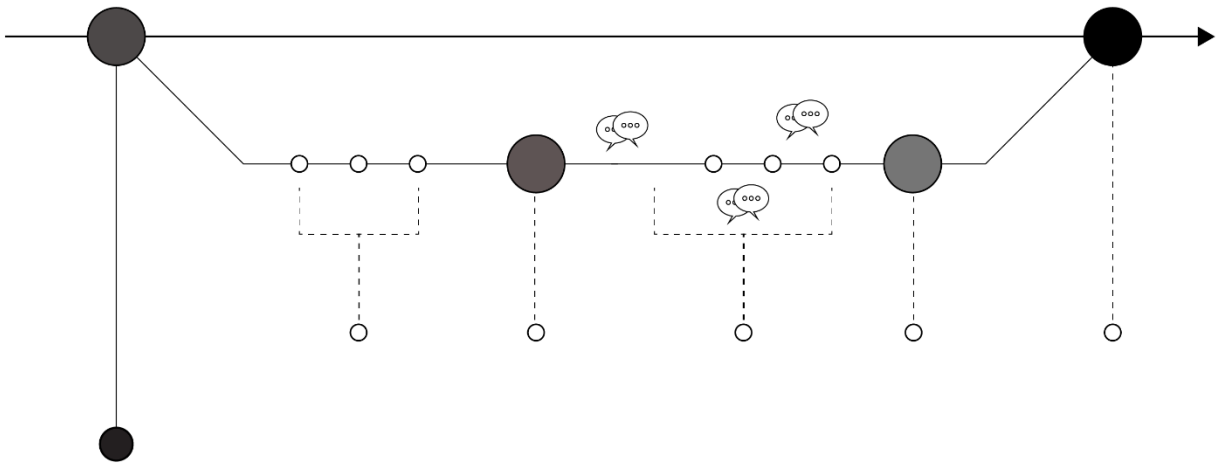
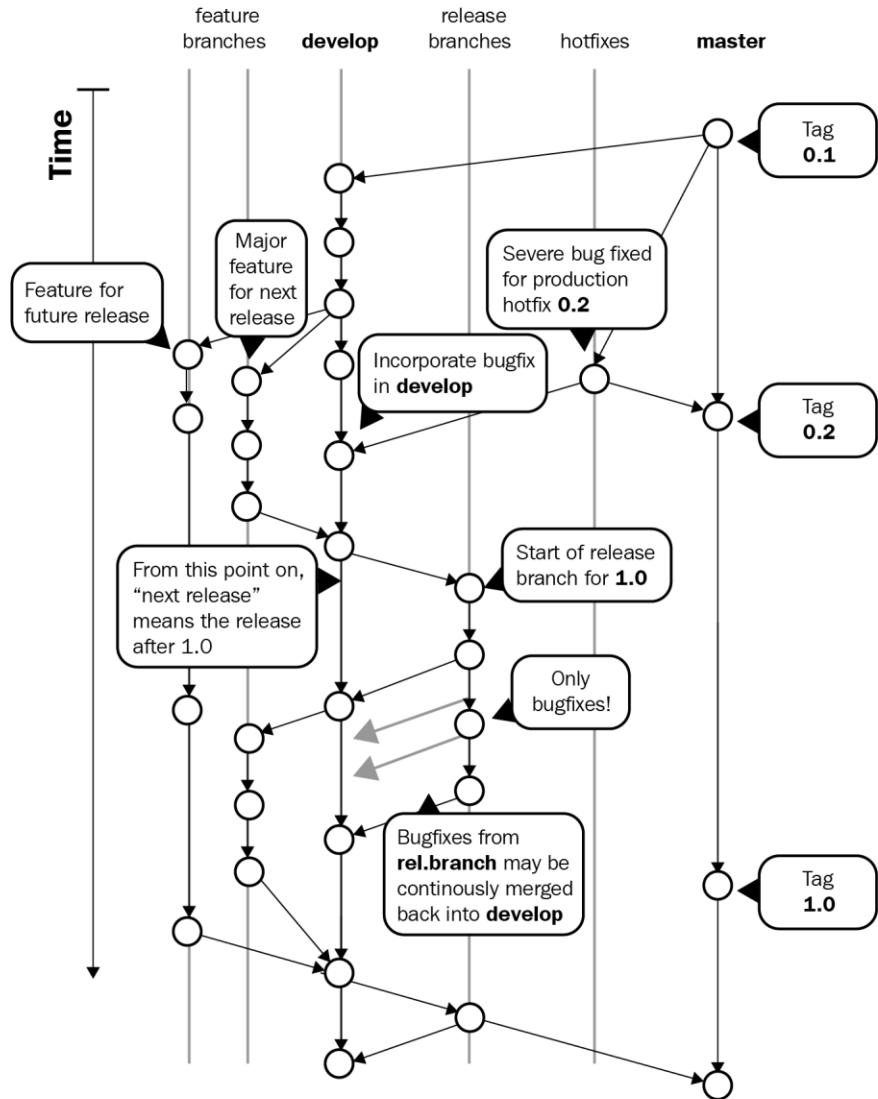
► Execution Details

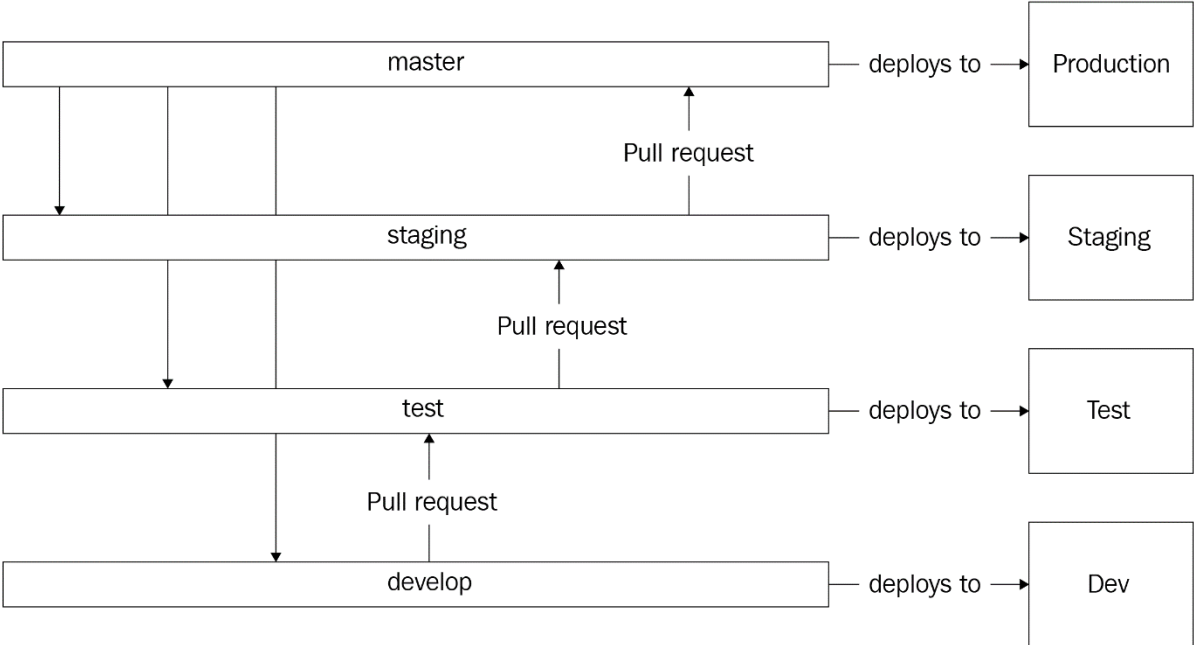
Chapter 12: Securing the Deployment Pipeline



Chapter 13: Understanding DevOps with GitOps







deploy

Started 45s ago

🔍 Search logs



- > Set up job 3s
- > Run actions/checkout@v2 0s
- > Install Terraform 2s

▼ Apply Terraform

16 - Installed hashicorp/google v3.66.1 (signed by HashiCorp)

17

18 Terraform has created a lock file `.terraform.lock.hcl` to record the provider

19 selections it made above. Include this file in your version control repository

20 so that Terraform can guarantee to make the same selections by default when

21 you run "terraform init" in the future.

22

23 **Terraform has been successfully initialized!**

24

25 You may now begin working with Terraform. Try running "terraform plan" to see

26 any changes that are required for your infrastructure. All Terraform commands

27 should now work.

28

29 If you ever set or change modules or backend configuration for Terraform,

30 rerun this command to reinitialize your working directory. If you forget, other

31 commands will detect it and remind you to do so if necessary.

32 `google_service_account.main: Refreshing state...`

`[id=projects/***/serviceAccounts/gke-cluster1-sa@***.iam.gserviceaccount.com]`

33 `google_container_cluster.main: Creating...`

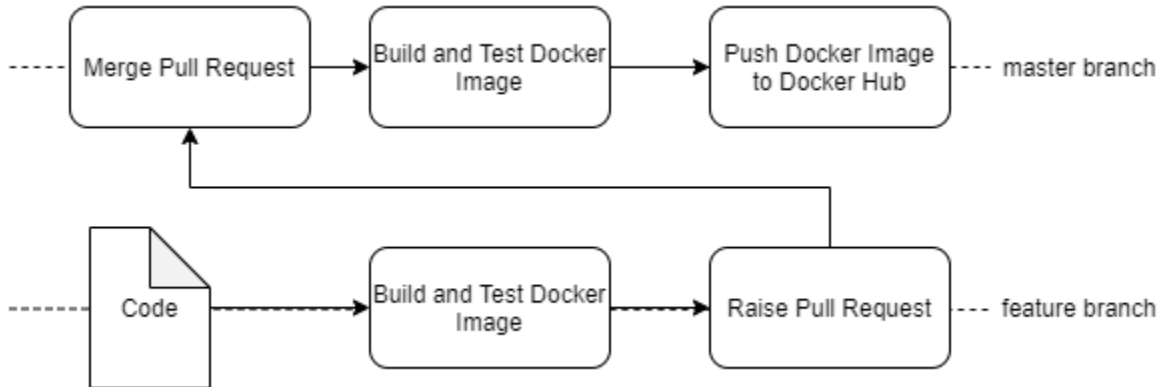
34 `google_container_cluster.main: Still creating... [10s elapsed]`

35 `google_container_cluster.main: Still creating... [20s elapsed]`

36 `google_container_cluster.main: Still creating... [30s elapsed]`

Post Run actions/checkout@v2

Chapter 14: CI/CD Pipelines with GitOps



✓ Initial commit Build, Test, and Raise Pull Request #4

Re-run jobs ▾

⋮

🏠 Summary

Jobs

✓ build

build



succeeded 38 seconds ago in 30s

🔍 Search logs






- > ✓ Set up job 3s
- > ✓ Build repo-sync/pull-request@v2 6s
- > ✓ Run actions/checkout@v2 0s
- > ✓ Build the Docker image 19s
- > ✓ Raise a Pull Request 2s
- > ✓ Post Run actions/checkout@v2 0s
- > ✓ Complete job 0s






Initial commit #1

 Open **bharatmicrosysteme...** wants to merge 2 commits into `master` from `feature/flask` 



 Conversation **0**  Commits **2**  Checks **1**  Files changed **1**

 **bharatmicrosystems** commented 8 minutes ago Owner  


No description provided.

-  **bharatmicrosystems** added 2 commits 20 minutes ago
-   Initial commit a125961
 -   Initial commit ✓ e9fb60b


Add more commits by pushing to the `feature/flask` branch on **bharatmicrosystems/flask-app-gitops**.

  **All checks have passed** Show all checks

1 successful check

 **This branch has no conflicts with the base branch**

Merging can be performed automatically.

Merge pull request  You can also [open this in GitHub Desktop](#) or [view command line instructions](#).

✓ Merge pull request #1 from bharamicrosystems/feature/flask
Build, Test, and Push container image #1

Re-run jobs ▾



Summary

Jobs

✓ build

build
succeeded 1 minute ago in 32s

Search logs

- > ✓ Set up job 3s
- > ✓ Run actions/checkout@v2 0s
- > ✓ Login to Docker Hub 1s
- > ✓ Build the Docker image 17s
- > ✓ Push the Docker image 11s
- > ✓ Post Run actions/checkout@v2 0s
- > ✓ Complete job 0s



bharamicrosystems/flask-app-gitops:e6ec3ed

DIGEST: sha256:ad61baf41bfd0e9b54f6ab5389b2a0dac93c9ac8752eece45e9f22e2d0bc62f4

OS/ARCH

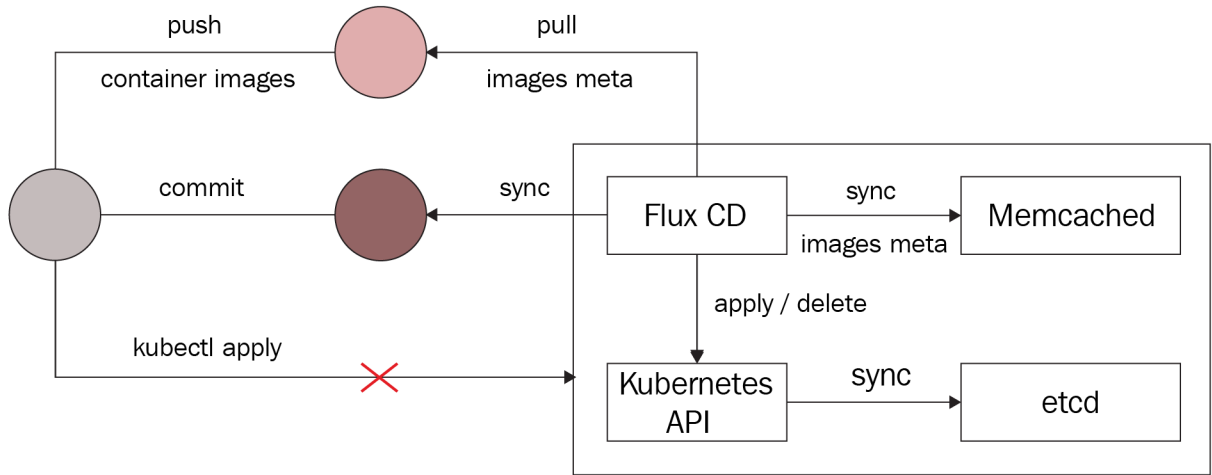
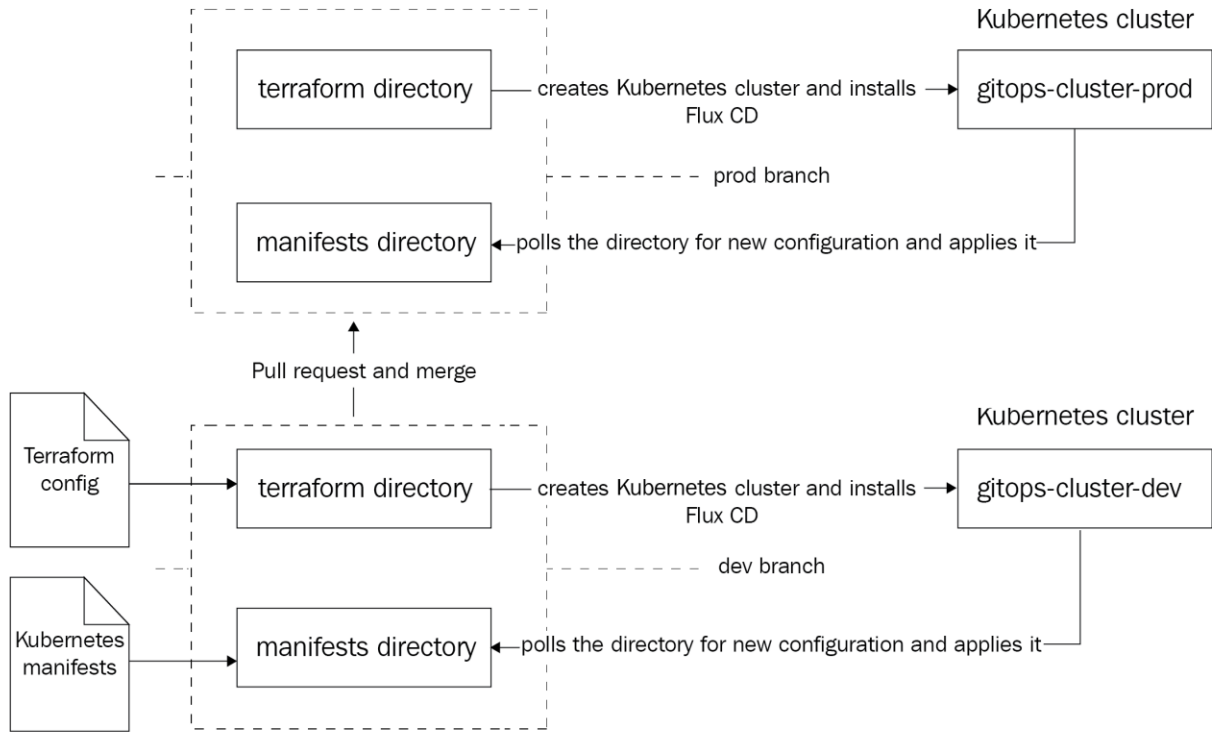
linux/amd64

COMPRESSED SIZE ⓘ

64.34 MB

LAST PUSHED

4 minutes ago by [bharamicrosystems](#)



Initial comit Create Kubernetes Cluster #31

Re-run jobs



Summary

Jobs

deploy-terraform

deploy-terraform

succeeded 1 hour ago in 4m 2s

Search logs



- > ✓ Set up job 3s
- > ✓ Run actions/checkout@v2 0s
- > ✓ Install Terraform 2s
- > ✓ Apply Terraform 3m 56s
- > ✓ Post Run actions/checkout@v2 1s
- > ✓ Complete job 0s

