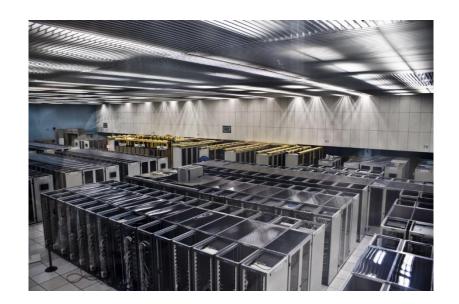
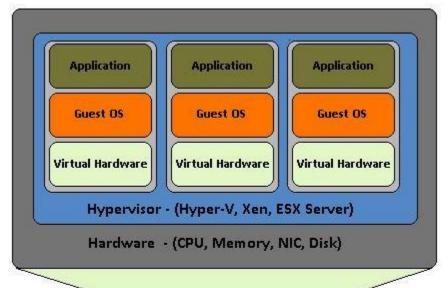
Chapter 1: Introduction to Docker

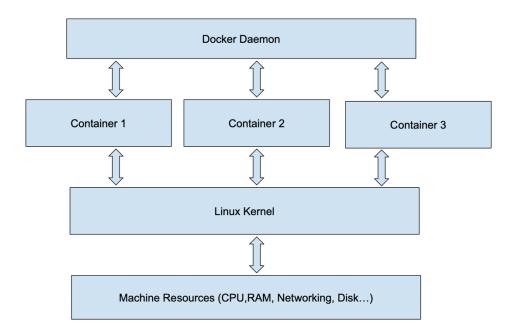






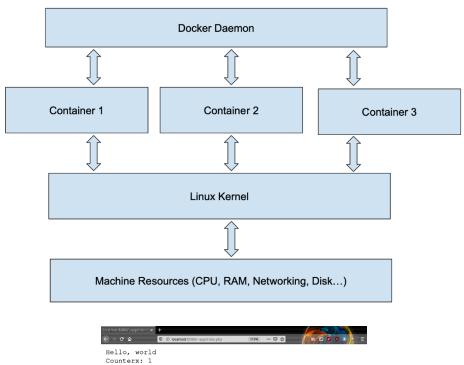






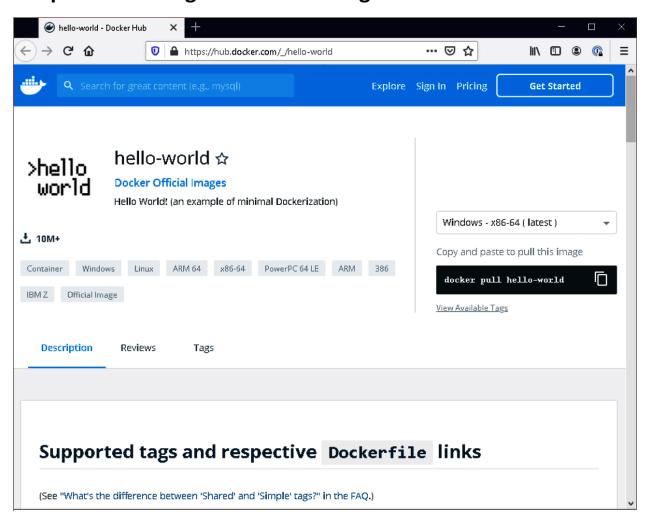
Chapter 2: Using VirtualBox and Docker Containers for Development

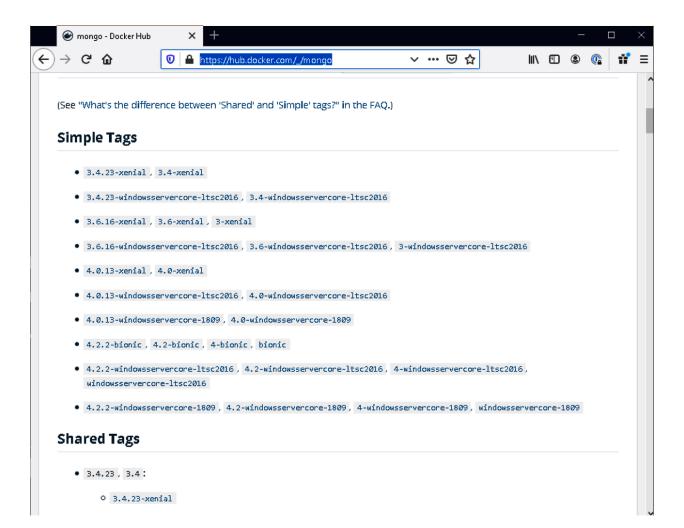




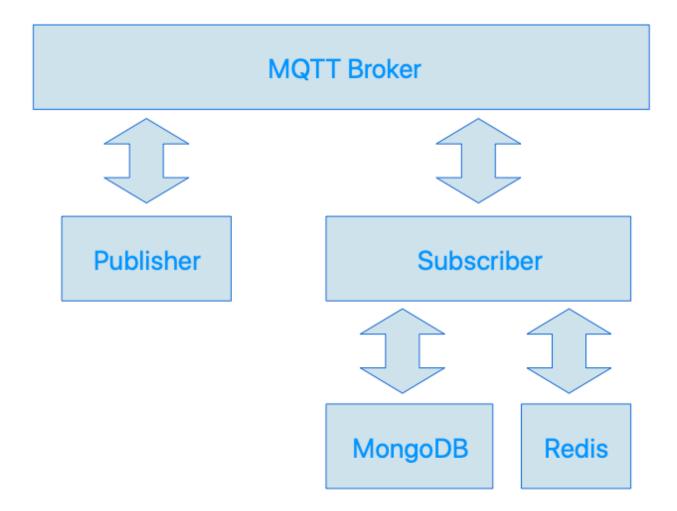
Hello, world Counterx: 5

Chapter 3: Sharing Containers Using Docker Hub





Publisher/Subscriber Architecture



Chapter 4: Composing Systems Using Containers



Chapter 5: Alternatives for Deploying and Running Containers in **Production**



Chapter 7: Continuous Deployment with Jenkins

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

/var/lib/jenkins/secrets/initialAdminPassword

Please copy the password from either location and paste it below.

Administrator password



Getting Started ×

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

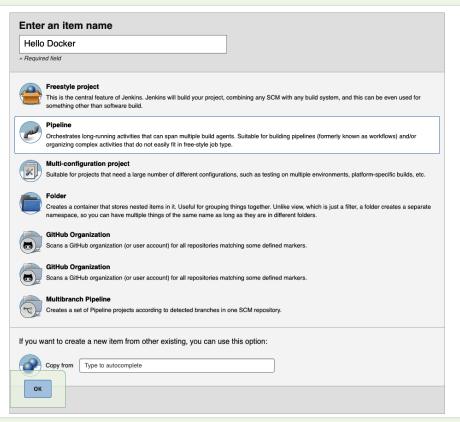
Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.







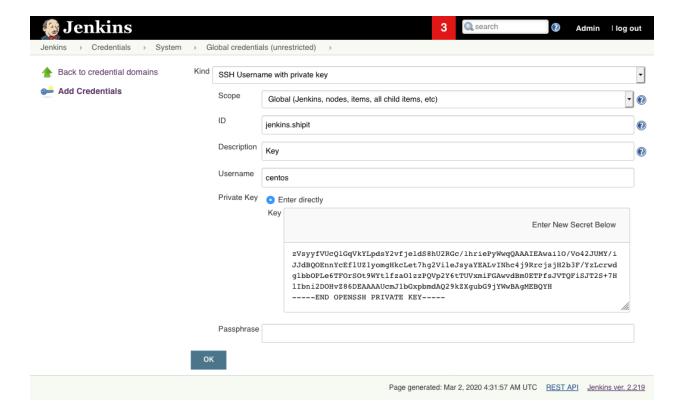
View as plain text [Pipeline] node Edit Build Information [Pipeline] { [Pipeline] isUnix O Delete build '#1' [Pipeline] sh Docker Fingerprints

Restart from Stage

Replay Pipeline Steps Workspaces

Next Build

```
Running in Durability level: MAX_SURVIVABILITY
[Pipeline] Start of Pipeline
Running on <u>Jenkins</u> in /var/lib/jenkins/workspace/Hello Docker
+ docker inspect -f . alpine:20191114
[Pipeline] withDockerContainer
Jenkins does not seem to be running inside a container
$ docker run -t -d -u 997:993 -w "/var/lib/jenkins/workspace/Hello Docker" -v
"/var/lib/jenkins/workspace/Hello Docker:/var/lib/jenkins/workspace/Hello
Docker:rw,z" -v "/var/lib/jenkins/workspace/Hello Docker@tmp:/var/lib/jenkins
/workspace/Hello Docker@tmp:rw,z" -e ******* -e ******* -e ****** -e
****** -0 ****** -0 ****** -0 ****** -0 ******* -0 *******
-e ****** -e ****** -e ****** -e ****** -e ****** -e ******
****** -e ****** -e ****** -e ******* -e ******* -e ******
alpine:20191114 cat
$ docker top 240902358b3b5be67d24e741e5724fc4fe70da9c06d1fc7bf5ee5d95b32bd55f
-eo pid,comm
[Pipeline] {
[Pipeline] stage
[Pipeline] { (build)
[Pipeline] sh
+ echo 'Hello, World (Docker for Developers Chapter 7)'
Hello, World (Docker for Developers Chapter 7)
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
$ docker stop --time=1
240902358b3b5be67d24e741e5724fc4fe70da9c06d1fc7bf5ee5d95b32bd55f
$ docker rm -f 240902358b3b5be67d24e741e5724fc4fe70da9c06d1fc7bf5ee5d95b32bd55f
[Pipeline] // withDockerContainer
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



3

Jenkins

Enter an item name

SSH to Production

» Required field



Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job



Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.



Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.



GitHub Organization

Scans a GitHub organization (or user account) for all repositories matching some defined markers.



GitHub Organization

Scans a GitHub organization (or user account) for all repositories matching some defined markers.



Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.

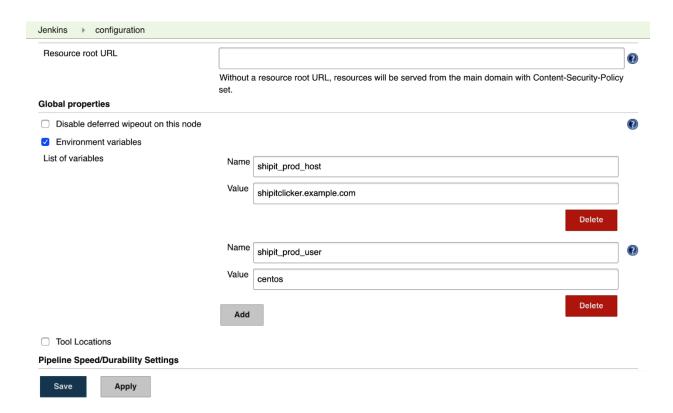
If you want to create a new item from other existing, you can use this option:

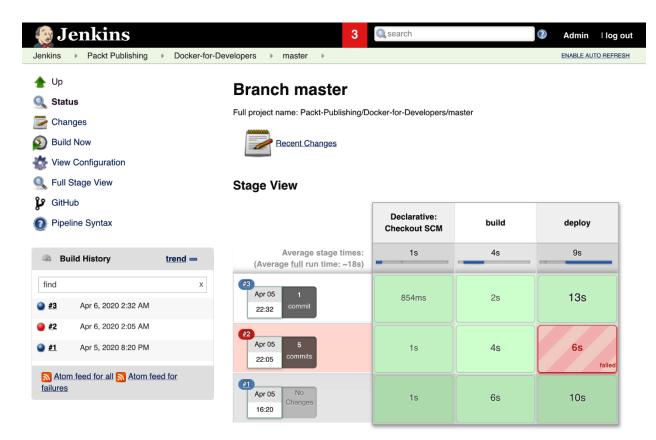


Copy from

Type to autocomplete

OK

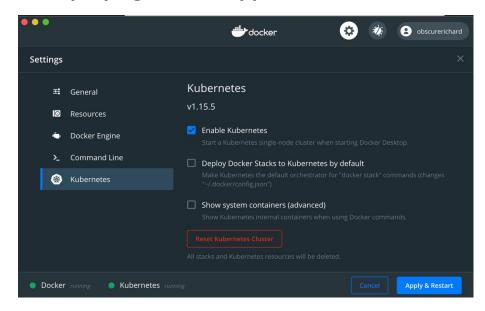




Permalinks

- Last build (#3), 3.7 sec ago
- Last stable build (#1), 6 hr 11 min ago

Chapter 8: Deploying Docker Apps to Kubernetes

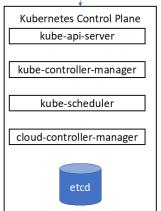


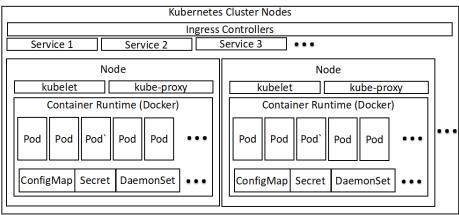
<pre>\$ kubectl get</pre>	pods -A				
NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
docker	compose-78f95d4f8c-6q47g	1/1	Running	0	13d
docker	compose-api-6ffb89dc58-xmc7g	1/1	Running	0	13d
kube-system	coredns-5644d7b6d9-trt7s	1/1	Running	0	13d
kube-system	coredns-5644d7b6d9-x7z5f	1/1	Running	0	13d
kube-system	etcd-docker-desktop	1/1	Running	0	13d
kube-system	kube-apiserver-docker-desktop	1/1	Running	0	13d
kube-system	kube-controller-manager-docker-desktop	1/1	Running	0	13d
kube-system	kube-proxy-9mq8k	1/1	Running	0	13d
kube-system	kube-scheduler-docker-desktop	1/1	Running	0	13d
kube-system	storage-provisioner	1/1	Running	1	13d
kube-system	vpnkit-controller	1/1	Running	0	13d





External Load Balancers (e.g. AWS Application Load Balancer)





\$ kubectl get secrets

NAME	TYPE	DATA	AGE
default-token-sm7kn	kubernetes.io/service-account-token	3	15d
nginx-ingress-backend-token-slkjf	kubernetes.io/service-account-token	3	3h43m
nginx-ingress-token-v5jjp	kubernetes.io/service-account-token	3	3h43m
sample-secret	0paque	1	15m
secex	0paque	1	12m
sh.helm.release.v1.nginx-ingress.v1	helm.sh/release.v1	1	3h43m
sh.helm.release.v1.shipitclicker.v1	helm.sh/release.v1	1	3h30m
sh.helm.release.v1.shipitclicker.v2	helm.sh/release.v1	1	3h1m
sh.helm.release.v1.shipitclicker.v3	helm.sh/release.v1	1	112m
sh.helm.release.v1.shipitclicker.v4	helm.sh/release.v1	1	104m
sh.helm.release.v1.shipitclicker.v5	helm.sh/release.v1	1	102m
shipitclicker-secrets	0paque	1	102m
shipitclicker-token-lc9qv	kubernetes.io/service-account-token	3	3h30m

\$ kubectl describe secrets/shipitclicker-secrets

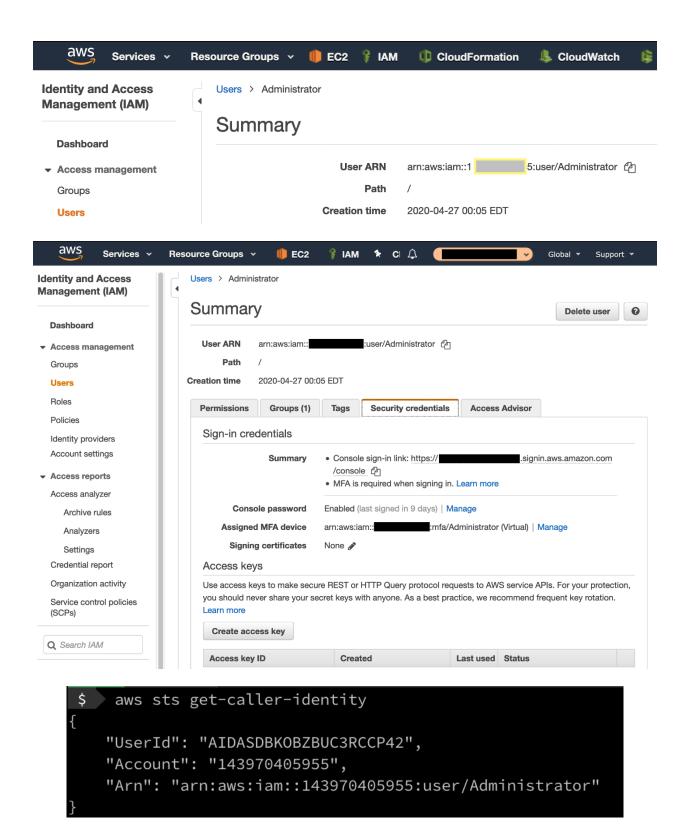
Name: shipitclicker-secrets

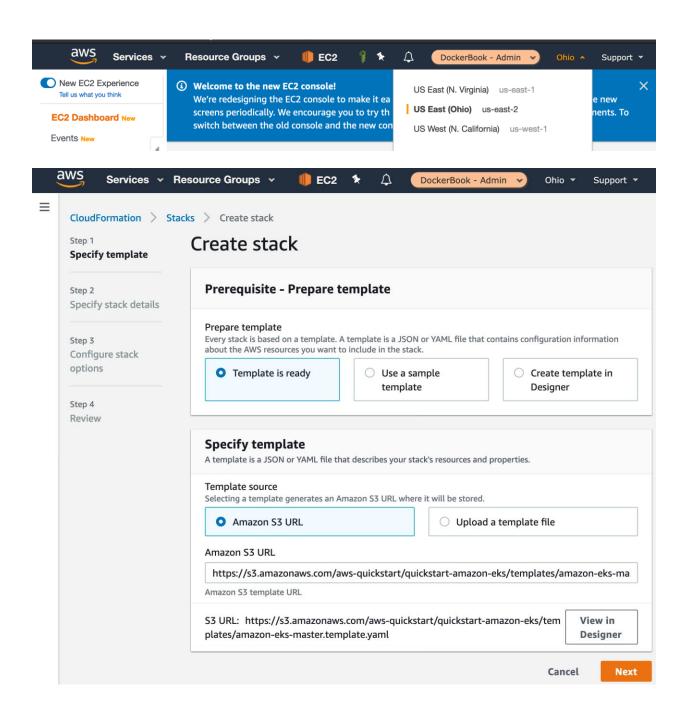
Namespace: default Labels: <none> Annotations: <none>

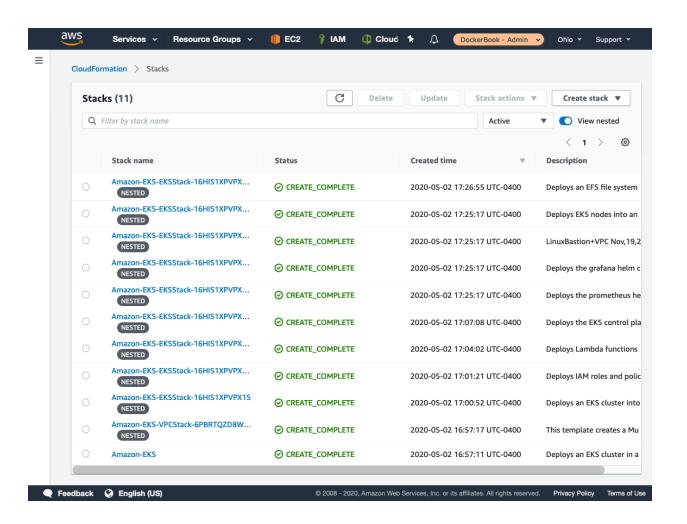
Type: Opaque

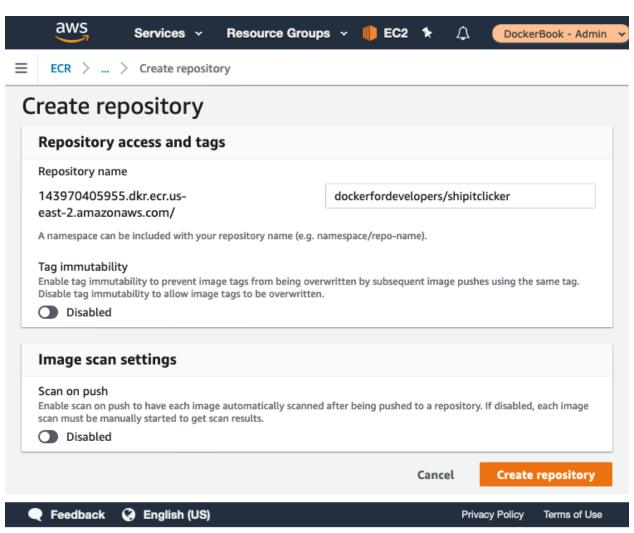
Data ====

SESSION_SECRET: 12 bytes

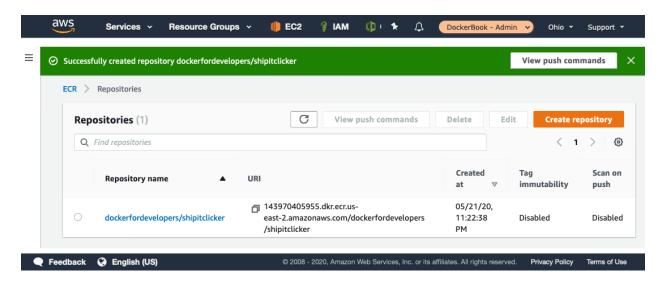






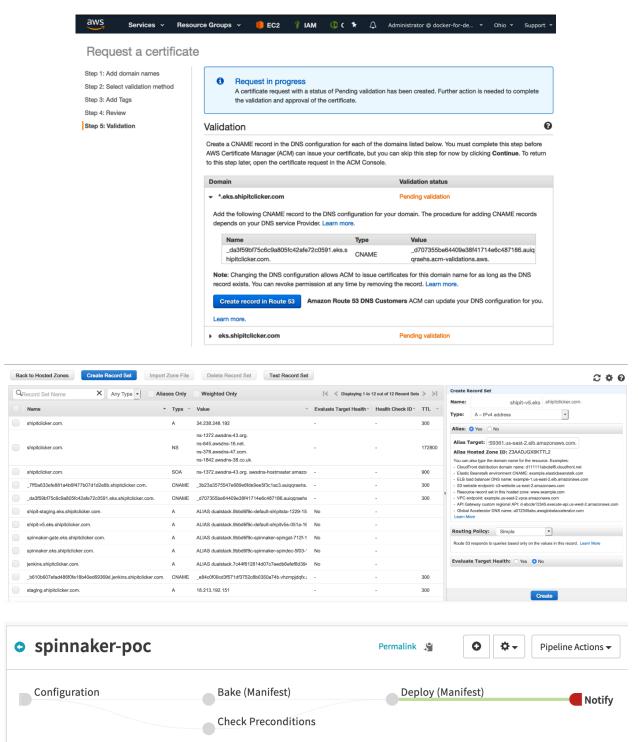


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```
$ docker push $REPO/$IMAGE:latest
The push refers to repository [143970405955.dkr.ecr.us-east-2.amazonaws.com/dockerfordevelopers/shipitclicker]
91886c2bec58: Pushed
803db8939aa3: Pushed
0e0a18348ee5: Pushed
62e05e3bb22a: Pushed
1348a1f0cfff: Pushed
f3acd9559398: Pushed
784ec316539a: Pushed
405463c769df: Pushed
ffac27138e4b: Pushed
da64c1c32e07: Pushed
latest: digest: sha256:c66f057ae0794e67705474fa480eaf653d0f8abeleb6bd13354a23a4aleefd89 size: 2409
```

Chapter 9: Cloud-Native Continuous Deployment Using Spinnaker



NAME: spinnaker
LAST DELLOYED: Sun May 3 14:33:10 2020
NAMESPACE: spinnaker
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
1. You will need to create 2 port forwarding tunnels in order to access the Spinnaker UI:
export DECK_POD=\$(kubectl get pods --namespace spinnaker -l "cluster=spin-deck" -o jsonpath="{.items[0].metadata.name}")
kubectl port-forward --namespace spinnaker \$DECK_POD 9000

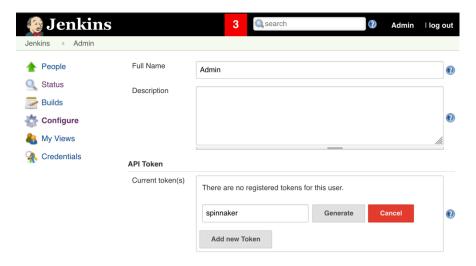
export GATE_POD=\$(kubectl get pods --namespace spinnaker -l "cluster=spin-gate" -o jsonpath="{.items[0].metadata.name}")
kubectl port-forward --namespace spinnaker \$GATE_POD 8084

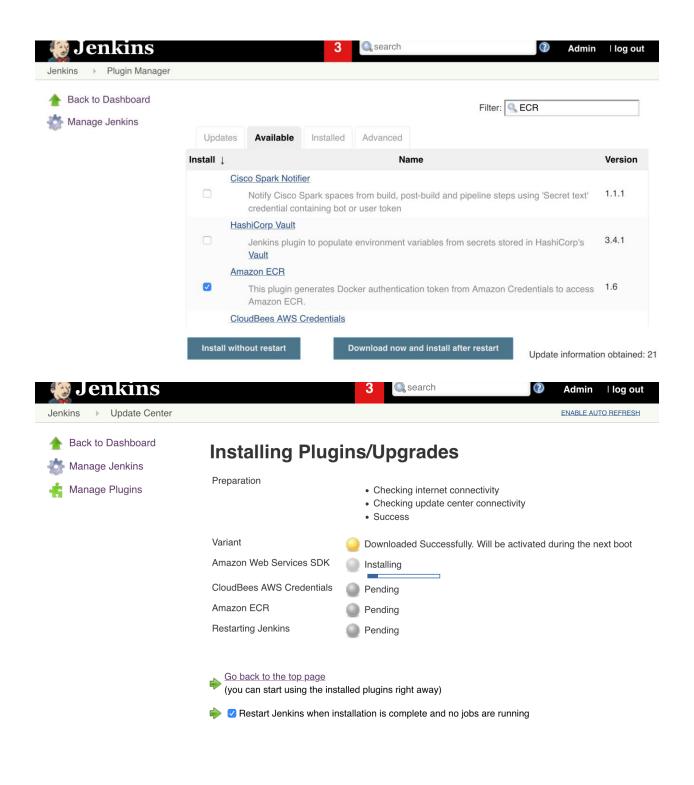
2. Visit the Spinnaker UI by opening your browser to: http://127.0.0.1:9000

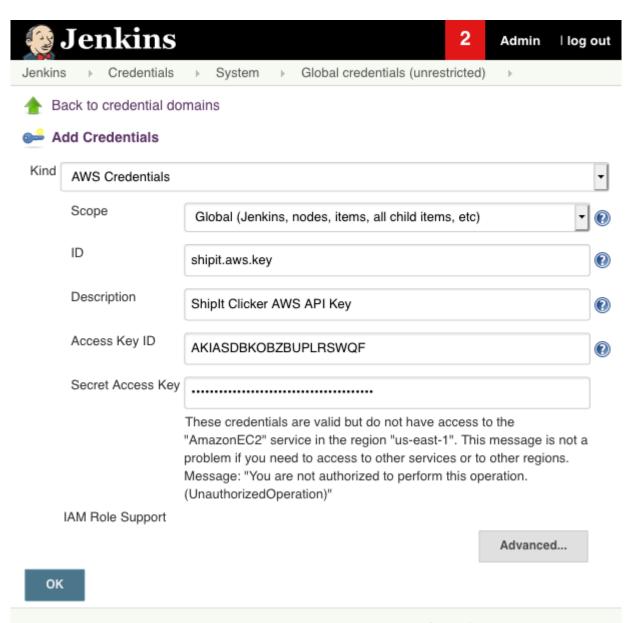
To customize your Spinnaker installation. Create a shell in your Halyard pod:
kubectl exec --namespace spinnaker -it spinnaker-spinnaker-halyard-0 bash

For more info on using Halyard to customize your installation, visit:
https://www.spinnaker.io/reference/halyard/

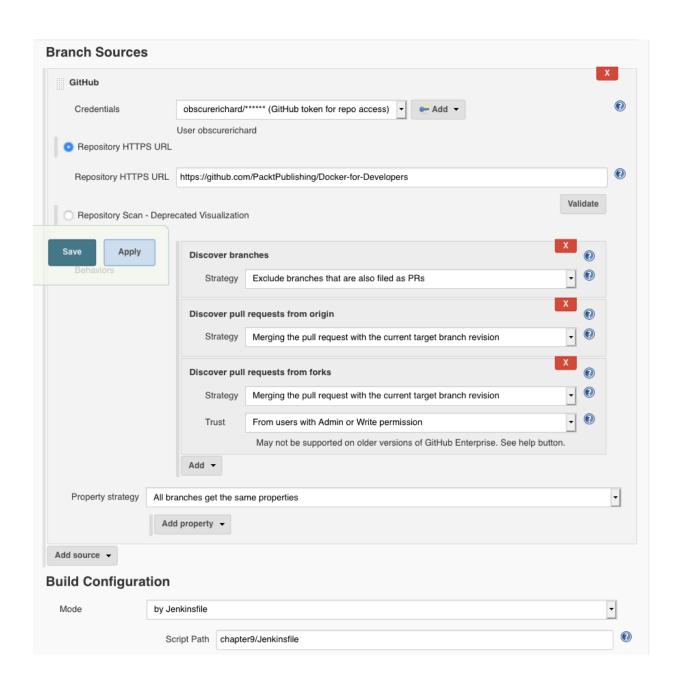
For more info on the Kubernetes integration for Spinnaker, visit:
https://www.spinnaker.io/reference/providers/kubernetes-v2/

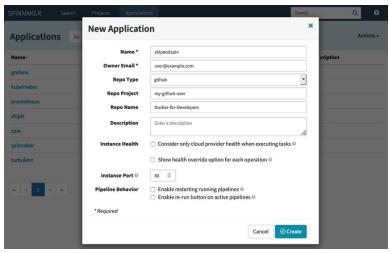


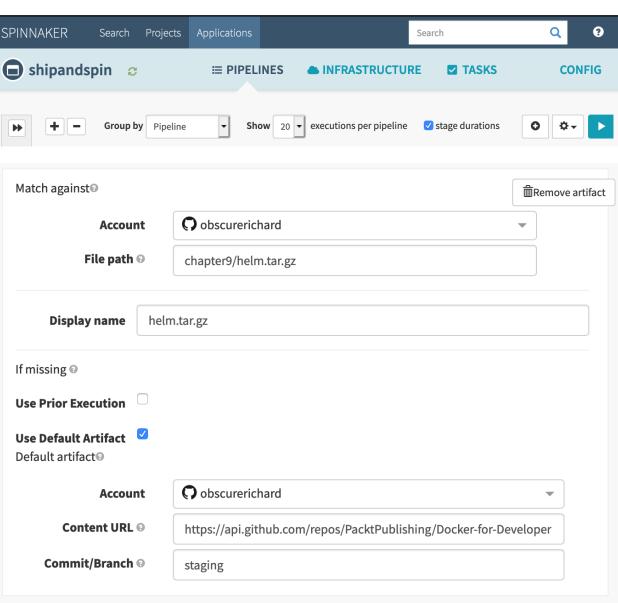


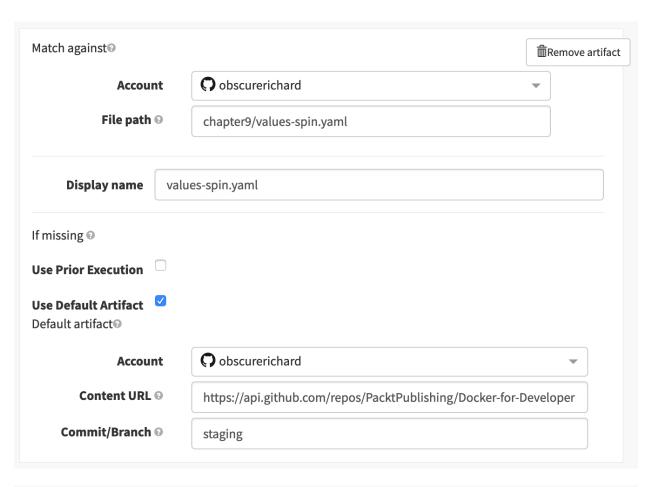


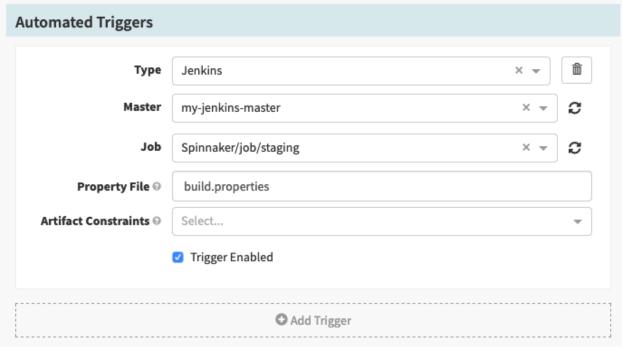
Page generated: May 26, 2020 3:36:26 AM UTC REST API Jenkins ver. 2.219

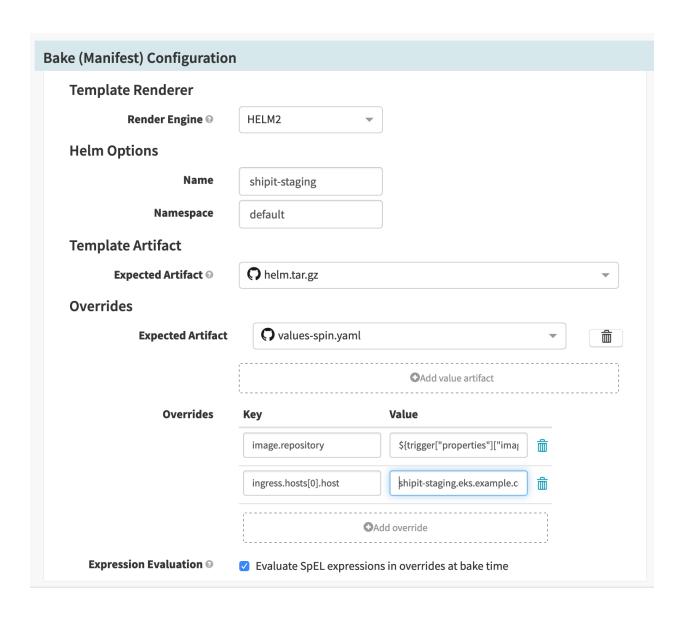


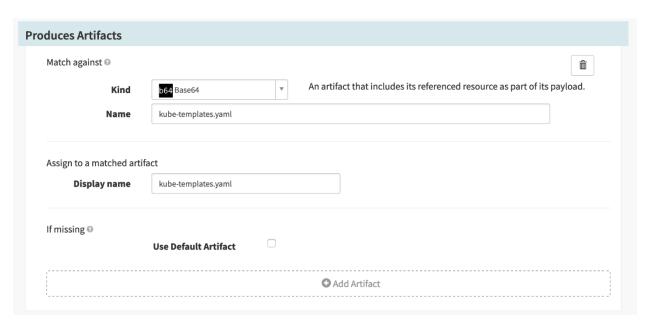


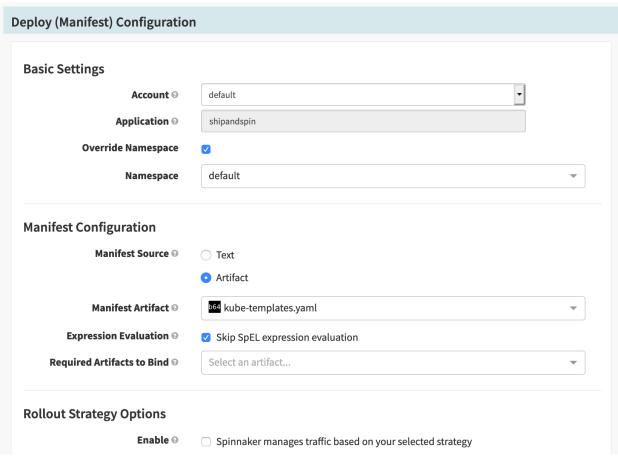


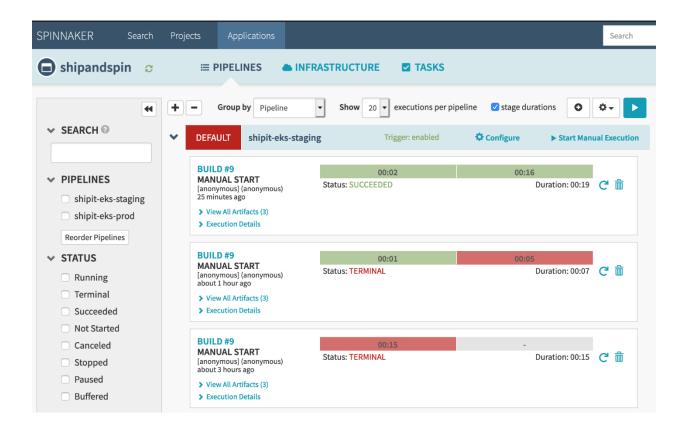




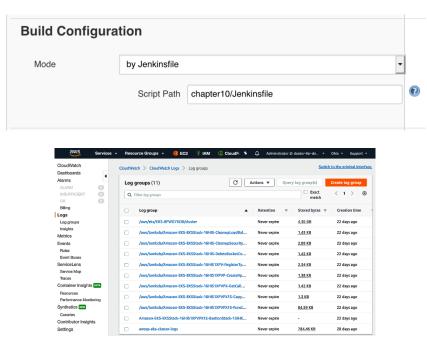








Chapter 10: Monitoring Docker Using Prometheus, Grafana, and Jaeger



Prometheus Alerts Graph Status ▼ Help

Alerts

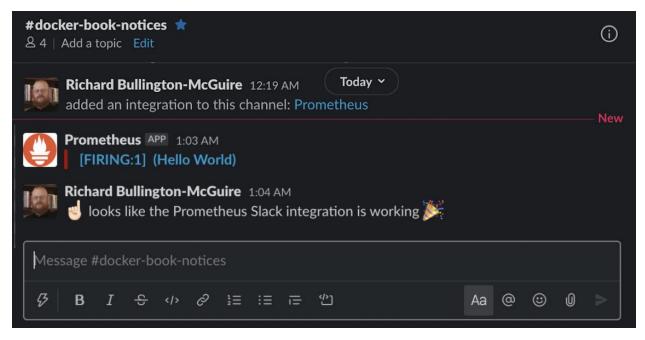
Inactive (1) Pending (0) Firing (0)

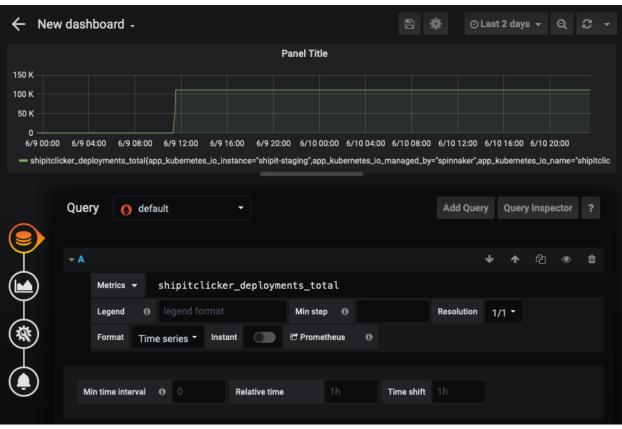
Show annotations

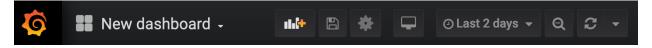
/etc/config/alerts > Kubernetes

InstanceDown (0 active)

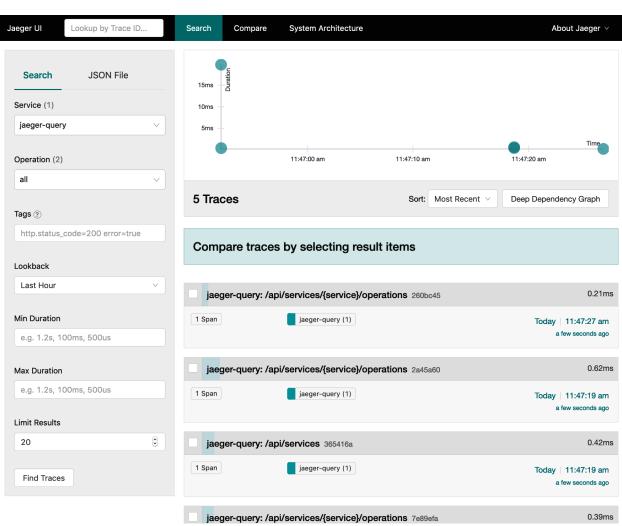
alert: InstanceDown
expr: up == 0
for: 5m
labels:
 severity: page
annotations:
 description: '{{ \$labels.instance }} of job {{ \$labels.job }} has been down for
 more than 5 minutes.'
 summary: Instance {{ \$labels.instance }} down

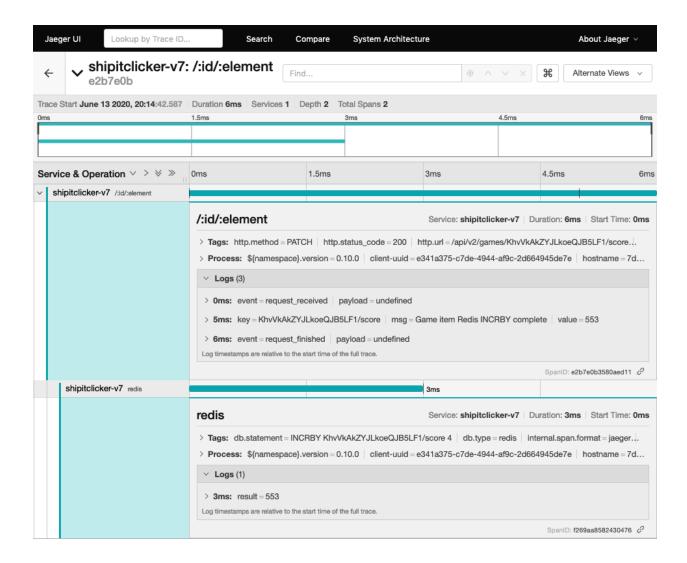






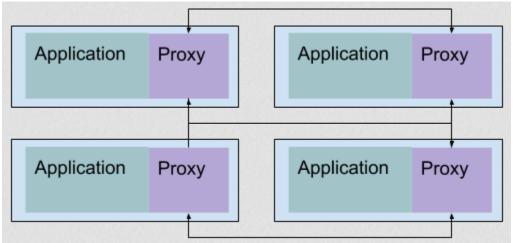


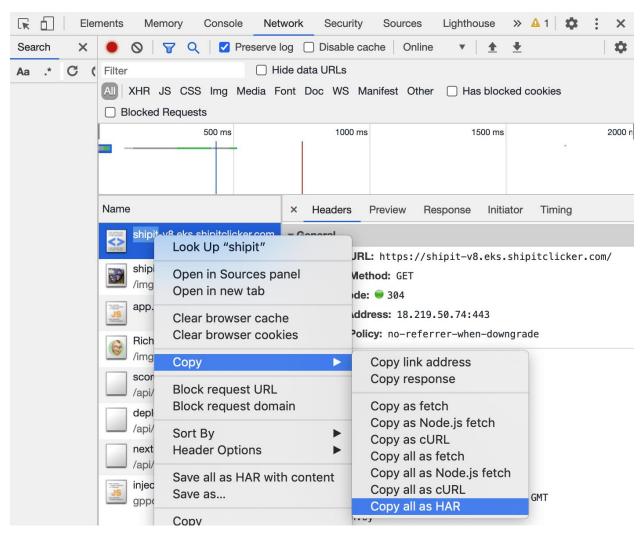


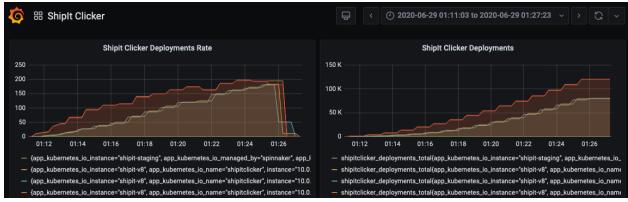


Chapter 11: Scaling and Load Testing Docker Applications

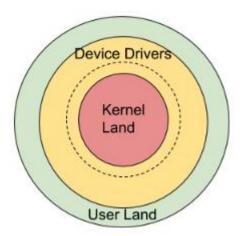
Number of nodes The number of Amazon EKS node instances. The default is one for each of the three Availability Zones. 4 Maximum number of nodes The maximum number of Amazon EKS node instances. The default is three node.

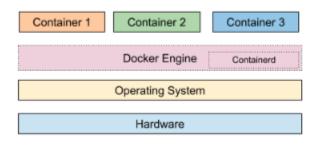


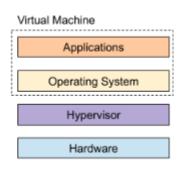


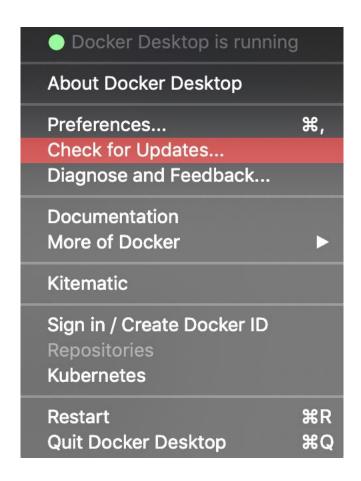


Chapter 12: Introduction to Container Security

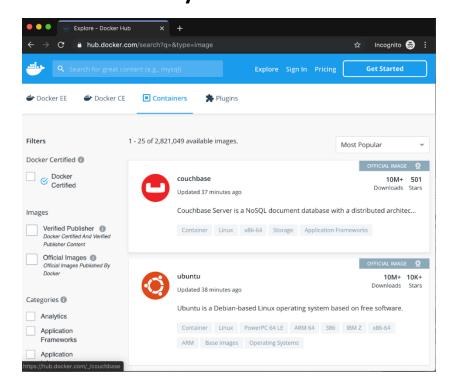








Chapter 13: Docker Security Fundamentals and Best Practices

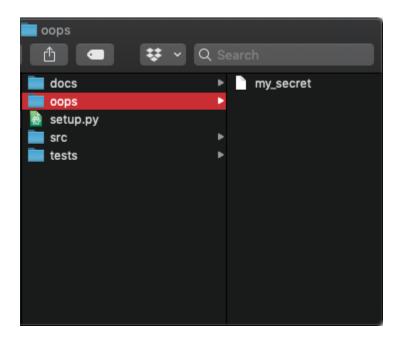




dockerfordevelopers/shipitclicker:0.1

DIGEST: sha256:39eda93d15866957feaee28f8fc5adb545276a64147445c64992ef69804dbf01

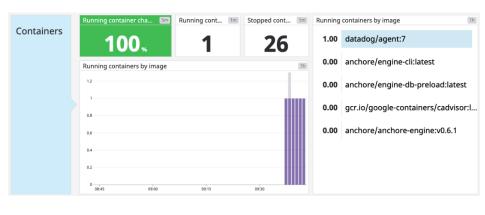
OS/ARCH SIZE LAST PUSHED
linux/amd64 2.68 MB a few seconds ago by rpigui



Chapter 15: Scanning, Monitoring, and Using Third-Party Tools









NAME: datadog-agent LAST DEPLOYED: Wed Jun 3 10:23:37 2020

NAMESPACE: default STATUS: deployed REVISION: 1 TEST SUITE: None

NOTES:

Datadog agents are spinning up on each node in your cluster. After a few minutes, you should see your agents starting in your event stream: https://app.datadoghq.com/event/stream



□ ★↑		Name	Modified	Popularity	
	☆ □	Security Signals	Jun 3, 2020	IIII	(1)
	☆□	Docker - Overview Preset	-	11111	d ocker
	☆ □	Host Counts Preset	-	IIIII	DATADOG
	☆□	Kubernetes - Overview Preset	-	IIII	kubernetes
	☆ □	Kubernetes Pods Overview Preset	-	IIII	kubernetes
	☆ (System - Disk I/O Preset	-	IIIII	system
	☆ (System - Metrics Preset	-	IIII	system
	☆ (System - Networking Preset	-	IIII	system

Chapter 16: Conclusion – End of the Road, but not the Journey

```
******
                  *****************
                *****************
               ******************
             ***********************
            **********************
            *************************
            *********************
                    *********************
                              #### ##
### ###
                       ####
            ****************
                nununun
nununun
                  ###
                  ******************
                 # # ### # ##
                 *********************
                       https://metasploit.com
      =[ metasploit v5.0.93-dev
=[ 2029 exploits - 1102 auxiliary - 344 post
=[ 562 payloads - 45 encoders - 10 nops
      =[ 7 evasion
Metasploit tip: Enable verbose lagging with set VERBOSE true
[*] Processing docker/msfconsole.rc for ERB directives.
[*] resource (docker/msfconsole.rc)> Ruby Code (236 bytes)
LHOST => 172.17.0.3
msf5 >
```