**rhyme@ip-10-199-79-157:~$**docker ps //docking is running or not

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

**rhyme@ip-10-199-79-157:~$**sudo systemclt start docker

Command 'systemclt' not found, did you mean:

command 'systemctl' from deb systemd

Try: sudo apt install <deb name>

**rhyme@ip-10-199-79-157:~$**minikube start

😄 minikube v1.23.0 on Ubuntu 18.04

🎉 minikube 1.32.0 is available! Download it: https://github.com/kubernetes/minikube/releases/tag/v1.32.0

💡 To disable this notice, run: 'minikube config set WantUpdateNotification false'

✨ Using the docker driver based on existing profile

👍 Starting control plane node minikube in cluster minikube

🚜 Pulling base image ...

🔄 Restarting existing docker container for "minikube" ...

🐳 Preparing Kubernetes v1.22.1 on Docker 20.10.8 .../ E0122 07:02:54.578557 10842 kubeadm.go:680] sudo env PATH=/var/lib/minikube/binaries/v1.22.1:$PATH kubeadm init phase certs all --config /var/tmp/minikube/kubeadm.yaml failed - will try once more: /bin/bash -c "sudo env PATH=/var/lib/minikube/binaries/v1.22.1:$PATH kubeadm init phase certs all --config /var/tmp/minikube/kubeadm.yaml": Process exited with status 1

stdout:

[certs] Using certificateDir folder "/var/lib/minikube/certs"

[certs] Using existing ca certificate authority

stderr:

W0122 07:02:54.575207 743 certs.go:489] WARNING: could not validate bounds for certificate apiserver: the certificate has expired: NotBefore: 2021-09-12 13:21:49 +0000 UTC, NotAfter: 2022-09-13 13:21:49 +0000 UTC

error execution phase certs/apiserver: [certs] certificate apiserver not signed by CA certificate ca: x509: certificate has expired or is not yet valid: current time 2024-01-22T07:02:54Z is after 2022-09-13T13:21:49Z

To see the stack trace of this error execute with --v=5 or higher

🤦 Unable to restart cluster, will reset it: run: /bin/bash -c "sudo env PATH=/var/lib/minikube/binaries/v1.22.1:$PATH kubeadm init phase certs all --config /var/tmp/minikube/kubeadm.yaml": Process exited with status 1

stdout:

[certs] Using certificateDir folder "/var/lib/minikube/certs"

[certs] Using existing ca certificate authority

stderr:

W0122 07:02:54.641815 750 certs.go:489] WARNING: could not validate bounds for certificate apiserver: the certificate has expired: NotBefore: 2021-09-12 13:21:49 +0000 UTC, NotAfter: 2022-09-13 13:21:49 +0000 UTC

error execution phase certs/apiserver: [certs] certificate apiserver not signed by CA certificate ca: x509: certificate has expired or is not yet valid: current time 2024-01-22T07:02:54Z is after 2022-09-13T13:21:49Z

To see the stack trace of this error execute with --v=5 or higher

▪ Generating certificates and keys ...

💢 initialization failed, will try again: wait: /bin/bash -c "sudo env PATH=/var/lib/minikube/binaries/v1.22.1:$PATH kubeadm init --config /var/tmp/minikube/kubeadm.yaml --ignore-preflight-errors=DirAvailable--etc-kubernetes-manifests,DirAvailable--var-lib-minikube,DirAvailable--var-lib-minikube-etcd,FileAvailable--etc-kubernetes-manifests-kube-scheduler.yaml,FileAvailable--etc-kubernetes-manifests-kube-apiserver.yaml,FileAvailable--etc-kubernetes-manifests-kube-controller-manager.yaml,FileAvailable--etc-kubernetes-manifests-etcd.yaml,Port-10250,Swap,Mem,SystemVerification,FileContent--proc-sys-net-bridge-bridge-nf-call-iptables": Process exited with status 1

▪ Generating certificates and keys ...

💣 Error starting cluster:

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│ │

│ 😿 If the above advice does not help, please let us know: │

│ 👉 https://github.com/kubernetes/minikube/issues/new/choose │

│ │

│ Please run `minikube logs --file=logs.txt` and attach logs.txt to the GitHub issue. │

│ │

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❌ Exiting due to GUEST\_START: wait: /bin/bash -c "sudo env PATH=/var/lib/minikube/binaries/v1.22.1:$PATH kubeadm init --config /var/tmp/minikube/kubeadm.yaml --ignore-preflight-errors=DirAvailable--etc-kubernetes-manifests,DirAvailable--var-lib-minikube,DirAvailable--var-lib-minikube-etcd,FileAvailable--etc-kubernetes-manifests-kube-scheduler.yaml,FileAvailable--etc-kubernetes-manifests-kube-apiserver.yaml,FileAvailable--etc-kubernetes-manifests-kube-controller-manager.yaml,FileAvailable--etc-kubernetes-manifests-etcd.yaml,Port-10250,Swap,Mem,SystemVerification,FileContent--proc-sys-net-bridge-bridge-nf-call-iptables": Process exited with status 1

stdout:

[init] Using Kubernetes version: v1.22.1

[preflight] Running pre-flight checks

[preflight] The system verification failed. Printing the output from the verification:

KERNEL\_VERSION: 5.3.0-1028-aws

DOCKER\_VERSION: 20.10.8

DOCKER\_GRAPH\_DRIVER: overlay2

OS: Linux

CGROUPS\_CPU: enabled

CGROUPS\_CPUACCT: enabled

CGROUPS\_CPUSET: enabled

CGROUPS\_DEVICES: enabled

CGROUPS\_FREEZER: enabled

CGROUPS\_MEMORY: enabled

CGROUPS\_PIDS: enabled

CGROUPS\_HUGETLB: enabled

[preflight] Pulling images required for setting up a Kubernetes cluster

[preflight] This might take a minute or two, depending on the speed of your internet connection

[preflight] You can also perform this action in beforehand using 'kubeadm config images pull'

[certs] Using certificateDir folder "/var/lib/minikube/certs"

[certs] Using existing ca certificate authority

stderr:

[WARNING SystemVerification]: failed to parse kernel config: unable to load kernel module: "configs", output: "modprobe: FATAL: Module configs not found in directory /lib/modules/5.3.0-1028-aws\n", err: exit status 1

[WARNING Service-Kubelet]: kubelet service is not enabled, please run 'systemctl enable kubelet.service'

W0122 07:03:00.108538 1252 certs.go:489] WARNING: could not validate bounds for certificate apiserver: the certificate has expired: NotBefore: 2021-09-12 13:21:49 +0000 UTC, NotAfter: 2022-09-13 13:21:49 +0000 UTC

error execution phase certs/apiserver: [certs] certificate apiserver not signed by CA certificate ca: x509: certificate has expired or is not yet valid: current time 2024-01-22T07:03:00Z is after 2022-09-13T13:21:49Z

To see the stack trace of this error execute with --v=5 or higher

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│ │

│ 😿 If the above advice does not help, please let us know: │

│ 👉 https://github.com/kubernetes/minikube/issues/new/choose │

│ │

│ Please run `minikube logs --file=logs.txt` and attach logs.txt to the GitHub issue. │

│ │

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**rhyme@ip-10-199-79-157:~$**minikube delete --all --purge

🔥 Deleting "minikube" in docker ...

🔥 Removing /home/rhyme/.minikube/machines/minikube ...

💀 Removed all traces of the "minikube" cluster.

🔥 Successfully deleted all profiles

💀 Successfully purged minikube directory located at - [/home/rhyme/.minikube]

**rhyme@ip-10-199-79-157:~$**minikube start

😄 minikube v1.23.0 on Ubuntu 18.04

🎉 minikube 1.32.0 is available! Download it: https://github.com/kubernetes/minikube/releases/tag/v1.32.0

💡 To disable this notice, run: 'minikube config set WantUpdateNotification false'

✨ Automatically selected the docker driver. Other choices: ssh, none

👍 Starting control plane node minikube in cluster minikube

🚜 Pulling base image ...

💾 Downloading Kubernetes v1.22.1 preload ...

> preloaded-images-k8s-v12-v1...: 515.04 MiB / 515.04 MiB 100.00% 101.09 M

🔥 Creating docker container (CPUs=2, Memory=2200MB) ...

🐳 Preparing Kubernetes v1.22.1 on Docker 20.10.8 ...

▪ Generating certificates and keys ...

▪ Booting up control plane ...

▪ Configuring RBAC rules ...

🔎 Verifying Kubernetes components...

▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5

🌟 Enabled addons: storage-provisioner, default-storageclass

🏄 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

**rhyme@ip-10-199-79-157:~$**kubectl get pod

No resources found in default namespace.

**rhyme@ip-10-199-79-157:~$**minikube addons enable ingress

▪ Using image k8s.gcr.io/ingress-nginx/kube-webhook-certgen:v1.0

▪ Using image k8s.gcr.io/ingress-nginx/kube-webhook-certgen:v1.0

▪ Using image k8s.gcr.io/ingress-nginx/controller:v1.0.0-beta.3

🔎 Verifying ingress addon...

**rhyme@ip-10-199-79-157:~$**kubectl get pods -n ingress-nginx

NAME READY STATUS RESTARTS AGE

ingress-nginx-admission-create--1-z78r5 0/1 Completed 0 31s

ingress-nginx-admission-patch--1-rljg4 0/1 Completed 1 31s

ingress-nginx-controller-69bdbc4d57-h6jkg 1/1 Running 0 31s

**rhyme@ip-10-199-79-157:~$**

ag/v1.32.0

💡 To disable this notice, run: 'minikube config set WantUpdateNotification false'

✨ Automatically selected the docker driver. Other choices: ssh, none

👍 Starting control plane node minikube in cluster minikube

🚜 Pulling base image ...

💾 Downloading Kubernetes v1.22.1 preload ...

> preloaded-images-k8s-v12-v1...: 515.04 MiB / 515.04 MiB 100.00% 101.09 M

🔥 Creating docker container (CPUs=2, Memory=2200MB) ...

🐳 Preparing Kubernetes v1.22.1 on Docker 20.10.8 ...

▪ Generating certificates and keys ...

▪ Booting up control plane ...

▪ Configuring RBAC rules ...

🔎 Verifying Kubernetes components...

▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5

🌟 Enabled addons: storage-provisioner, default-storageclass

🏄 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

**rhyme@ip-10-199-79-157:~$**kubectl get pod

No resources found in default namespace.

**rhyme@ip-10-199-79-157:~$**minikube addons enable ingress

▪ Using image k8s.gcr.io/ingress-nginx/kube-webhook-certgen:v1.0

▪ Using image k8s.gcr.io/ingress-nginx/kube-webhook-certgen:v1.0

▪ Using image k8s.gcr.io/ingress-nginx/controller:v1.0.0-beta.3

🔎 Verifying ingress addon...

**rhyme@ip-10-199-79-157:~$**kubectl get pods -n ingress-nginx

NAME READY STATUS RESTARTS AGE

ingress-nginx-admission-create--1-z78r5 0/1 Completed 0 31s

ingress-nginx-admission-patch--1-rljg4 0/1 Completed 1 31s

ingress-nginx-controller-69bdbc4d57-h6jkg 1/1 Running 0 31s

**rhyme@ip-10-199-79-157:~$**clear

--------------------------------------------------------------------------------------------------------------------------------------------------------

**rhyme@ip-10-199-79-157:~$**mkdir ingress-k8s

**rhyme@ip-10-199-79-157:~$**cd ingress-k8s/

**rhyme@ip-10-199-79-157:~$**touch delpoyment-a.yaml

**rhyme@ip-10-199-79-157:~$**code .

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-a.yaml

error: the path "deployment-a.yaml" does not exist

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-a.yaml

deployment.apps/first-app created

**rhyme@ip-10-199-79-157:~$**kubectl get pods -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-7d5fbd8cfb-8t8zm 0/1 ImagePullBackOff 0 45s 172.17.0.5 minikube <none> <none>

first-app-7d5fbd8cfb-ml99l 0/1 ImagePullBackOff 0 45s 172.17.0.6 minikube <none> <none>

first-app-7d5fbd8cfb-s5zxc 0/1 ImagePullBackOff 0 45s 172.17.0.4 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl get pods -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-7d5fbd8cfb-8t8zm 0/1 ImagePullBackOff 0 70s 172.17.0.5 minikube <none> <none>

first-app-7d5fbd8cfb-ml99l 0/1 ImagePullBackOff 0 70s 172.17.0.6 minikube <none> <none>

first-app-7d5fbd8cfb-s5zxc 0/1 ImagePullBackOff 0 70s 172.17.0.4 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl exec -it first-app-7d5fbd8cfb-8t8zm sh

kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.

error: unable to upgrade connection: container not found ("httpbin")

**rhyme@ip-10-199-79-157:~$**kubectl get pods -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-7d5fbd8cfb-8t8zm 0/1 ImagePullBackOff 0 4m29s 172.17.0.5 minikube <none> <none>

first-app-7d5fbd8cfb-ml99l 0/1 ImagePullBackOff 0 4m29s 172.17.0.6 minikube <none> <none>

first-app-7d5fbd8cfb-s5zxc 0/1 ImagePullBackOff 0 4m29s 172.17.0.4 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl get pods -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-7d5fbd8cfb-8t8zm 0/1 ImagePullBackOff 0 5m43s 172.17.0.5 minikube <none> <none>

first-app-7d5fbd8cfb-ml99l 0/1 ImagePullBackOff 0 5m43s 172.17.0.6 minikube <none> <none>

first-app-7d5fbd8cfb-s5zxc 0/1 ImagePullBackOff 0 5m43s 172.17.0.4 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-a.yaml

deployment.apps/first-app configured

**rhyme@ip-10-199-79-157:~$**kubectl get pods -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-6b884887d9-j2xwj 0/1 ContainerCreating 0 5s <none> minikube <none> <none>

first-app-7d5fbd8cfb-8t8zm 0/1 ImagePullBackOff 0 8m15s 172.17.0.5 minikube <none> <none>

first-app-7d5fbd8cfb-ml99l 0/1 ImagePullBackOff 0 8m15s 172.17.0.6 minikube <none> <none>

first-app-7d5fbd8cfb-s5zxc 0/1 ImagePullBackOff 0 8m15s 172.17.0.4 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl get pods -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-6b884887d9-2kmqb 0/1 ContainerCreating 0 1s <none> minikube <none> <none>

first-app-6b884887d9-j2xwj 1/1 Running 0 18s 172.17.0.7 minikube <none> <none>

first-app-7d5fbd8cfb-8t8zm 0/1 ImagePullBackOff 0 8m28s 172.17.0.5 minikube <none> <none>

first-app-7d5fbd8cfb-ml99l 0/1 ImagePullBackOff 0 8m28s 172.17.0.6 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl exec -it first-app-6b884887d9-j2xwj sh

kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.

# cd /

# ls

bin boot dev etc home httpbin lib lib64 media mnt opt proc root run sbin srv sys tmp usr var

# ps aux

USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND

root 1 0.3 0.3 85976 24892 ? Ss 07:30 0:00 /usr/bin/python3 /usr/local/bin/gunicorn -b 0.0.0.0

root 9 0.3 0.4 129964 34176 ? S 07:30 0:00 /usr/bin/python3 /usr/local/bin/gunicorn -b 0.0.0.0

root 11 0.0 0.0 4624 788 pts/0 Ss 07:31 0:00 sh

root 18 0.0 0.0 34396 2800 pts/0 R+ 07:32 0:00 ps aux

# wget

sh: 4: wget: not found

# curl

sh: 5: curl: not found

# apt-get update

Hit:1 http://archive.ubuntu.com/ubuntu bionic InRelease

Get:2 http://archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]

Get:3 http://archive.ubuntu.com/ubuntu bionic-backports InRelease [83.3 kB]

Get:4 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]

Get:5 http://archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [30.8 kB]

Get:6 http://archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [2411 kB]

Get:7 http://archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [1728 kB]

Get:8 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [3785 kB]

Get:9 http://archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [64.0 kB]

Get:10 http://archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [20.6 kB]

Get:11 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [3373 kB]

Get:12 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1637 kB]

Get:13 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [1688 kB]

Get:14 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [23.8 kB]

Fetched 15.0 MB in 2s (7006 kB/s)

Reading package lists... Done

# apt-get curl install

E: Invalid operation curl

# apt-get install curl

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

krb5-locales libcurl4 libgssapi-krb5-2 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libnghttp2-14 libpsl5

librtmp1 libssl1.1 publicsuffix

Suggested packages:

krb5-doc krb5-user

The following NEW packages will be installed:

curl krb5-locales libcurl4 libgssapi-krb5-2 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libnghttp2-14

libpsl5 librtmp1 publicsuffix

The following packages will be upgraded:

libssl1.1

1 upgraded, 12 newly installed, 0 to remove and 161 not upgraded.

Need to get 2492 kB of archives.

After this operation, 4425 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libssl1.1 amd64 1.1.1-1ubuntu2.1~18.04.23 [1303 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 krb5-locales all 1.16-2ubuntu0.4 [13.4 kB]

Get:3 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libkrb5support0 amd64 1.16-2ubuntu0.4 [30.9 kB]

Get:4 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libk5crypto3 amd64 1.16-2ubuntu0.4 [85.3 kB]

Get:5 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libkeyutils1 amd64 1.5.9-9.2ubuntu2.1 [8764 B]

Get:6 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libkrb5-3 amd64 1.16-2ubuntu0.4 [278 kB]

Get:7 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libgssapi-krb5-2 amd64 1.16-2ubuntu0.4 [122 kB]

Get:8 http://archive.ubuntu.com/ubuntu bionic/main amd64 libpsl5 amd64 0.19.1-5build1 [41.8 kB]

Get:9 http://archive.ubuntu.com/ubuntu bionic/main amd64 publicsuffix all 20180223.1310-1 [97.6 kB]

Get:10 http://archive.ubuntu.com/ubuntu bionic/main amd64 libnghttp2-14 amd64 1.30.0-1ubuntu1 [77.8 kB]

Get:11 http://archive.ubuntu.com/ubuntu bionic/main amd64 librtmp1 amd64 2.4+20151223.gitfa8646d.1-1 [54.2 kB]

Get:12 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libcurl4 amd64 7.58.0-2ubuntu3.24 [221 kB]

Get:13 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 curl amd64 7.58.0-2ubuntu3.24 [159 kB]

Fetched 2492 kB in 0s (13.9 MB/s)

debconf: delaying package configuration, since apt-utils is not installed

(Reading database ... 14822 files and directories currently installed.)

Preparing to unpack .../00-libssl1.1\_1.1.1-1ubuntu2.1~18.04.23\_amd64.deb ...

Unpacking libssl1.1:amd64 (1.1.1-1ubuntu2.1~18.04.23) over (1.1.0g-2ubuntu4.1) ...

Selecting previously unselected package krb5-locales.

Preparing to unpack .../01-krb5-locales\_1.16-2ubuntu0.4\_all.deb ...

Unpacking krb5-locales (1.16-2ubuntu0.4) ...

Selecting previously unselected package libkrb5support0:amd64.

Preparing to unpack .../02-libkrb5support0\_1.16-2ubuntu0.4\_amd64.deb ...

Unpacking libkrb5support0:amd64 (1.16-2ubuntu0.4) ...

Selecting previously unselected package libk5crypto3:amd64.

Preparing to unpack .../03-libk5crypto3\_1.16-2ubuntu0.4\_amd64.deb ...

Unpacking libk5crypto3:amd64 (1.16-2ubuntu0.4) ...

Selecting previously unselected package libkeyutils1:amd64.

Preparing to unpack .../04-libkeyutils1\_1.5.9-9.2ubuntu2.1\_amd64.deb ...

Unpacking libkeyutils1:amd64 (1.5.9-9.2ubuntu2.1) ...

Selecting previously unselected package libkrb5-3:amd64.

Preparing to unpack .../05-libkrb5-3\_1.16-2ubuntu0.4\_amd64.deb ...

Unpacking libkrb5-3:amd64 (1.16-2ubuntu0.4) ...

Selecting previously unselected package libgssapi-krb5-2:amd64.

Preparing to unpack .../06-libgssapi-krb5-2\_1.16-2ubuntu0.4\_amd64.deb ...

Unpacking libgssapi-krb5-2:amd64 (1.16-2ubuntu0.4) ...

Selecting previously unselected package libpsl5:amd64.

Preparing to unpack .../07-libpsl5\_0.19.1-5build1\_amd64.deb ...

Unpacking libpsl5:amd64 (0.19.1-5build1) ...

Selecting previously unselected package publicsuffix.

Preparing to unpack .../08-publicsuffix\_20180223.1310-1\_all.deb ...

Unpacking publicsuffix (20180223.1310-1) ...

Selecting previously unselected package libnghttp2-14:amd64.

Preparing to unpack .../09-libnghttp2-14\_1.30.0-1ubuntu1\_amd64.deb ...

Unpacking libnghttp2-14:amd64 (1.30.0-1ubuntu1) ...

Selecting previously unselected package librtmp1:amd64.

Preparing to unpack .../10-librtmp1\_2.4+20151223.gitfa8646d.1-1\_amd64.deb ...

Unpacking librtmp1:amd64 (2.4+20151223.gitfa8646d.1-1) ...

Selecting previously unselected package libcurl4:amd64.

Preparing to unpack .../11-libcurl4\_7.58.0-2ubuntu3.24\_amd64.deb ...

Unpacking libcurl4:amd64 (7.58.0-2ubuntu3.24) ...

Selecting previously unselected package curl.

Preparing to unpack .../12-curl\_7.58.0-2ubuntu3.24\_amd64.deb ...

Unpacking curl (7.58.0-2ubuntu3.24) ...

Setting up libnghttp2-14:amd64 (1.30.0-1ubuntu1) ...

Setting up libpsl5:amd64 (0.19.1-5build1) ...

Setting up librtmp1:amd64 (2.4+20151223.gitfa8646d.1-1) ...

Setting up libkrb5support0:amd64 (1.16-2ubuntu0.4) ...

Setting up krb5-locales (1.16-2ubuntu0.4) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Setting up publicsuffix (20180223.1310-1) ...

Setting up libssl1.1:amd64 (1.1.1-1ubuntu2.1~18.04.23) ...

debconf: unable to initialize frontend: Dialog

debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 76.)

debconf: falling back to frontend: Readline

Checking for services that may need to be restarted...done.

Checking for services that may need to be restarted...done.

Setting up libkeyutils1:amd64 (1.5.9-9.2ubuntu2.1) ...

Setting up libk5crypto3:amd64 (1.16-2ubuntu0.4) ...

Setting up libkrb5-3:amd64 (1.16-2ubuntu0.4) ...

Setting up libgssapi-krb5-2:amd64 (1.16-2ubuntu0.4) ...

Setting up libcurl4:amd64 (7.58.0-2ubuntu3.24) ...

Setting up curl (7.58.0-2ubuntu3.24) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

# curl

curl: try 'curl --help' or 'curl --manual' for more information

# curl localhost

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>httpbin.org</title>

<link href="https://fonts.googleapis.com/css?family=Open+Sans:400,700|Source+Code+Pro:300,600|Titillium+Web:400,600,700"

rel="stylesheet">

<link rel="stylesheet" type="text/css" href="/flasgger\_static/swagger-ui.css">

<link rel="icon" type="image/png" href="/static/favicon.ico" sizes="64x64 32x32 16x16" />

<style>

html {

box-sizing: border-box;

overflow: -moz-scrollbars-vertical;

overflow-y: scroll;

}

\*,

\*:before,

\*:after {

box-sizing: inherit;

}

body {

margin: 0;

background: #fafafa;

}

</style>

</head>

<body>

<a href="https://github.com/requests/httpbin" class="github-corner" aria-label="View source on Github">

<svg width="80" height="80" viewBox="0 0 250 250" style="fill:#151513; color:#fff; position: absolute; top: 0; border: 0; right: 0;"

aria-hidden="true">

<path d="M0,0 L115,115 L130,115 L142,142 L250,250 L250,0 Z"></path>

<path d="M128.3,109.0 C113.8,99.7 119.0,89.6 119.0,89.6 C122.0,82.7 120.5,78.6 120.5,78.6 C119.2,72.0 123.4,76.3 123.4,76.3 C127.3,80.9 125.5,87.3 125.5,87.3 C122.9,97.6 130.6,101.9 134.4,103.2"

fill="currentColor" style="transform-origin: 130px 106px;" class="octo-arm"></path>

<path d="M115.0,115.0 C114.9,115.1 118.7,116.5 119.8,115.4 L133.7,101.6 C136.9,99.2 139.9,98.4 142.2,98.6 C133.8,88.0 127.5,74.4 143.8,58.0 C148.5,53.4 154.0,51.2 159.7,51.0 C160.3,49.4 163.2,43.6 171.4,40.1 C171.4,40.1 176.1,42.5 178.8,56.2 C183.1,58.6 187.2,61.8 190.9,65.4 C194.5,69.0 197.7,73.2 200.1,77.6 C213.8,80.2 216.3,84.9 216.3,84.9 C212.7,93.1 206.9,96.0 205.4,96.6 C205.1,102.4 203.0,107.8 198.3,112.5 C181.9,128.9 168.3,122.5 157.7,114.1 C157.9,116.9 156.7,120.9 152.7,124.9 L141.0,136.5 C139.8,137.7 141.6,141.9 141.8,141.8 Z"

fill="currentColor" class="octo-body"></path>

</svg>

</a>

<svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" style="position:absolute;width:0;height:0">

<defs>

<symbol viewBox="0 0 20 20" id="unlocked">

<path d="M15.8 8H14V5.6C14 2.703 12.665 1 10 1 7.334 1 6 2.703 6 5.6V6h2v-.801C8 3.754 8.797 3 10 3c1.203 0 2 .754 2 2.199V8H4c-.553 0-1 .646-1 1.199V17c0 .549.428 1.139.951 1.307l1.197.387C5.672 18.861 6.55 19 7.1 19h5.8c.549 0 1.428-.139 1.951-.307l1.196-.387c.524-.167.953-.757.953-1.306V9.199C17 8.646 16.352 8 15.8 8z"></path>

</symbol>

<symbol viewBox="0 0 20 20" id="locked">

<path d="M15.8 8H14V5.6C14 2.703 12.665 1 10 1 7.334 1 6 2.703 6 5.6V8H4c-.553 0-1 .646-1 1.199V17c0 .549.428 1.139.951 1.307l1.197.387C5.672 18.861 6.55 19 7.1 19h5.8c.549 0 1.428-.139 1.951-.307l1.196-.387c.524-.167.953-.757.953-1.306V9.199C17 8.646 16.352 8 15.8 8zM12 8H8V5.199C8 3.754 8.797 3 10 3c1.203 0 2 .754 2 2.199V8z"

/>

</symbol>

<symbol viewBox="0 0 20 20" id="close">

<path d="M14.348 14.849c-.469.469-1.229.469-1.697 0L10 11.819l-2.651 3.029c-.469.469-1.229.469-1.697 0-.469-.469-.469-1.229 0-1.697l2.758-3.15-2.759-3.152c-.469-.469-.469-1.228 0-1.697.469-.469 1.228-.469 1.697 0L10 8.183l2.651-3.031c.469-.469 1.228-.469 1.697 0 .469.469.469 1.229 0 1.697l-2.758 3.152 2.758 3.15c.469.469.469 1.229 0 1.698z"

/>

</symbol>

<symbol viewBox="0 0 20 20" id="large-arrow">

<path d="M13.25 10L6.109 2.58c-.268-.27-.268-.707 0-.979.268-.27.701-.27.969 0l7.83 7.908c.268.271.268.709 0 .979l-7.83 7.908c-.268.271-.701.27-.969 0-.268-.269-.268-.707 0-.979L13.25 10z"

/>

</symbol>

<symbol viewBox="0 0 20 20" id="large-arrow-down">

<path d="M17.418 6.109c.272-.268.709-.268.979 0s.271.701 0 .969l-7.908 7.83c-.27.268-.707.268-.979 0l-7.908-7.83c-.27-.268-.27-.701 0-.969.271-.268.709-.268.979 0L10 13.25l7.418-7.141z"

/>

</symbol>

<symbol viewBox="0 0 24 24" id="jump-to">

<path d="M19 7v4H5.83l3.58-3.59L8 6l-6 6 6 6 1.41-1.41L5.83 13H21V7z" />

</symbol>

<symbol viewBox="0 0 24 24" id="expand">

<path d="M10 18h4v-2h-4v2zM3 6v2h18V6H3zm3 7h12v-2H6v2z" />

</symbol>

</defs>

</svg>

<div id="swagger-ui">

<div data-reactroot="" class="swagger-ui">

<div>

<div class="information-container wrapper">

<section class="block col-12">

<div class="info">

<hgroup class="main">

<h2 class="title">httpbin.org

<small>

<pre class="version">0.9.2</pre>

</small>

</h2>

<pre class="base-url">[ Base URL: httpbin.org/ ]</pre>

</hgroup>

<div class="description">

<div class="markdown">

<p>A simple HTTP Request &amp; Response Service.

<br>

<br>

<b>Run locally: </b>

<code>$ docker run -p 80:80 kennethreitz/httpbin</code>

</p>

</div>

</div>

<div>

<div>

<a href="https://kennethreitz.org" target="\_blank">the developer - Website</a>

</div>

<a href="mailto:me@kennethreitz.org">Send email to the developer</a>

</div>

</div>

<!-- ADDS THE LOADER SPINNER -->

<div class="loading-container">

<div class="loading"></div>

</div>

</section>

</div>

</div>

</div>

</div>

<div class='swagger-ui'>

<div class="wrapper">

<section class="clear">

<span style="float: right;">

[Powered by

<a target="\_blank" href="https://github.com/rochacbruno/flasgger">Flasgger</a>]

<br>

</span>

</section>

</div>

</div>

<script src="/flasgger\_static/swagger-ui-bundle.js"> </script>

<script src="/flasgger\_static/swagger-ui-standalone-preset.js"> </script>

<script src='/flasgger\_static/lib/jquery.min.js' type='text/javascript'></script>

<script>

window.onload = function () {

fetch("/spec.json")

.then(function (response) {

response.json()

.then(function (json) {

var current\_protocol = window.location.protocol.slice(0, -1);

if (json.schemes[0] != current\_protocol) {

// Switches scheme to the current in use

var other\_protocol = json.schemes[0];

json.schemes[0] = current\_protocol;

json.schemes[1] = other\_protocol;

}

json.host = window.location.host; // sets the current host

const ui = SwaggerUIBundle({

spec: json,

validatorUrl: null,

dom\_id: '#swagger-ui',

deepLinking: true,

jsonEditor: true,

docExpansion: "none",

apisSorter: "alpha",

//operationsSorter: "alpha",

presets: [

SwaggerUIBundle.presets.apis,

// yay ES6 modules ↘

Array.isArray(SwaggerUIStandalonePreset) ? SwaggerUIStandalonePreset : SwaggerUIStandalonePreset.default

],

plugins: [

SwaggerUIBundle.plugins.DownloadUrl

],

// layout: "StandaloneLayout" // uncomment to enable the green top header

})

window.ui = ui

// uncomment to rename the top brand if layout is enabled

// $(".topbar-wrapper .link span").replaceWith("<span>httpbin</span>");

})

})

}

</script> <div class='swagger-ui'>

<div class="wrapper">

<section class="block col-12 block-desktop col-12-desktop">

<div>

<h2>Other Utilities</h2>

<ul>

<li>

<a href="/forms/post">HTML form</a> that posts to /post /forms/post</li>

</ul>

<br />

<br />

</div>

</section>

</div>

</div>

</body>

</html>#

# curl localhost/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "localhost",

"User-Agent": "curl/7.58.0"

},

"json": null,

"method": "GET",

"origin": "127.0.0.1",

"url": "http://localhost/anything"

}

# exit

**rhyme@ip-10-199-79-157:~$**cp deployment-a.yml deployment-b.yaml

cp: cannot stat 'deployment-a.yml': No such file or directory

**rhyme@ip-10-199-79-157:~$**cp deployment-a.yaml deployment-b.yaml

**rhyme@ip-10-199-79-157:~$**code .

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-b.yaml

deployment.apps/second-app created

**rhyme@ip-10-199-79-157:~$**kubectl get pod

NAME READY STATUS RESTARTS AGE

first-app-6b884887d9-2kmqb 1/1 Running 0 9m12s

first-app-6b884887d9-j2xwj 1/1 Running 0 9m29s

first-app-6b884887d9-jbhtt 1/1 Running 0 9m10s

second-app-69c4f7f6c5-l92fb 1/1 Running 0 10s

second-app-69c4f7f6c5-slxtj 1/1 Running 0 10s

second-app-69c4f7f6c5-z4kkl 1/1 Running 0 10s

rhyme@ip-10-199-79-157:~/ingress-k8s$

IP: 10.96.0.1

IPs: 10.96.0.1

Port: https 443/TCP

TargetPort: 8443/TCP

Endpoints: 192.168.49.2:8443

Session Affinity: None

Events: <none>

**rhyme@ip-10-199-79-157:~$**kubectl get pod -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-6b884887d9-2kmqb 1/1 Running 2 (23m ago) 3h53m 172.17.0.4 minikube <none> <none>

first-app-6b884887d9-j2xwj 1/1 Running 2 (23m ago) 3h54m 172.17.0.5 minikube <none> <none>

first-app-6b884887d9-jbhtt 1/1 Running 2 (23m ago) 3h53m 172.17.0.2 minikube <none> <none>

second-app-69c4f7f6c5-l92fb 1/1 Running 2 (23m ago) 3h44m 172.17.0.3 minikube <none> <none>

second-app-69c4f7f6c5-slxtj 1/1 Running 2 (23m ago) 3h44m 172.17.0.8 minikube <none> <none>

second-app-69c4f7f6c5-z4kkl 1/1 Running 2 (23m ago) 3h44m 172.17.0.7 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**clear

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**rhyme@ip-10-199-79-157:~$**cp first-service.yaml second-service.yaml

**rhyme@ip-10-199-79-157:~$**kubectl apply -f second-service.yaml

service/second-service created

**rhyme@ip-10-199-79-157:~$**kubectl get pod -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-6b884887d9-2kmqb 1/1 Running 2 (25m ago) 3h56m 172.17.0.4 minikube <none> <none>

first-app-6b884887d9-j2xwj 1/1 Running 2 (25m ago) 3h56m 172.17.0.5 minikube <none> <none>

first-app-6b884887d9-jbhtt 1/1 Running 2 (25m ago) 3h55m 172.17.0.2 minikube <none> <none>

second-app-69c4f7f6c5-l92fb 1/1 Running 2 (25m ago) 3h46m 172.17.0.3 minikube <none> <none>

second-app-69c4f7f6c5-slxtj 1/1 Running 2 (25m ago) 3h46m 172.17.0.8 minikube <none> <none>

second-app-69c4f7f6c5-z4kkl 1/1 Running 2 (25m ago) 3h46m 172.17.0.7 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl describe service

Name: first-service

Namespace: default

Labels: <none>

Annotations: <none>

Selector: app=first-app

Type: ClusterIP

IP Family Policy: SingleStack

IP Families: IPv4

IP: 10.106.5.235

IPs: 10.106.5.235

Port: <unset> 80/TCP

TargetPort: 80/TCP

Endpoints: 172.17.0.2:80,172.17.0.4:80,172.17.0.5:80

Session Affinity: None

Events: <none>

Name: kubernetes

Namespace: default

Labels: component=apiserver

provider=kubernetes

Annotations: <none>

Selector: <none>

Type: ClusterIP

IP Family Policy: SingleStack

IP Families: IPv4

IP: 10.96.0.1

IPs: 10.96.0.1

Port: https 443/TCP

TargetPort: 8443/TCP

Endpoints: 192.168.49.2:8443

Session Affinity: None

Events: <none>

Name: second-service

Namespace: default

Labels: <none>

Annotations: <none>

Selector: app=second-app

Type: ClusterIP

IP Family Policy: SingleStack

IP Families: IPv4

IP: 10.97.58.138

IPs: 10.97.58.138

Port: <unset> 80/TCP

TargetPort: 80/TCP

Endpoints: 172.17.0.3:80,172.17.0.7:80,172.17.0.8:80

Session Affinity: None

Events: <none>

rhyme@ip-10-199-79-157:~/ingress-k8s$

IP: 10.96.0.1

IPs: 10.96.0.1

Port: https 443/TCP

TargetPort: 8443/TCP

Endpoints: 192.168.49.2:8443

Session Affinity: None

Events: <none>

**rhyme@ip-10-199-79-157:~$**kubectl get pod -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-6b884887d9-2kmqb 1/1 Running 2 (23m ago) 3h53m 172.17.0.4 minikube <none> <none>

first-app-6b884887d9-j2xwj 1/1 Running 2 (23m ago) 3h54m 172.17.0.5 minikube <none> <none>

first-app-6b884887d9-jbhtt 1/1 Running 2 (23m ago) 3h53m 172.17.0.2 minikube <none> <none>

second-app-69c4f7f6c5-l92fb 1/1 Running 2 (23m ago) 3h44m 172.17.0.3 minikube <none> <none>

second-app-69c4f7f6c5-slxtj 1/1 Running 2 (23m ago) 3h44m 172.17.0.8 minikube <none> <none>

second-app-69c4f7f6c5-z4kkl 1/1 Running 2 (23m ago) 3h44m 172.17.0.7 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**clear

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**rhyme@ip-10-199-79-157:~$**cp first-service.yaml second-service.yaml

**rhyme@ip-10-199-79-157:~$**kubectl apply -f second-service.yaml

service/second-service created

**rhyme@ip-10-199-79-157:~$**kubectl get pod -o wide

NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES

first-app-6b884887d9-2kmqb 1/1 Running 2 (25m ago) 3h56m 172.17.0.4 minikube <none> <none>

first-app-6b884887d9-j2xwj 1/1 Running 2 (25m ago) 3h56m 172.17.0.5 minikube <none> <none>

first-app-6b884887d9-jbhtt 1/1 Running 2 (25m ago) 3h55m 172.17.0.2 minikube <none> <none>

second-app-69c4f7f6c5-l92fb 1/1 Running 2 (25m ago) 3h46m 172.17.0.3 minikube <none> <none>

second-app-69c4f7f6c5-slxtj 1/1 Running 2 (25m ago) 3h46m 172.17.0.8 minikube <none> <none>

second-app-69c4f7f6c5-z4kkl 1/1 Running 2 (25m ago) 3h46m 172.17.0.7 minikube <none> <none>

**rhyme@ip-10-199-79-157:~$**kubectl describe service

Name: first-service

Namespace: default

Labels: <none>

Annotations: <none>

Selector: app=first-app

Type: ClusterIP

IP Family Policy: SingleStack

IP Families: IPv4

IP: 10.106.5.235

IPs: 10.106.5.235

Port: <unset> 80/TCP

TargetPort: 80/TCP

Endpoints: 172.17.0.2:80,172.17.0.4:80,172.17.0.5:80

Session Affinity: None

Events: <none>

Name: kubernetes

Namespace: default

Labels: component=apiserver

provider=kubernetes

Annotations: <none>

Selector: <none>

Type: ClusterIP

IP Family Policy: SingleStack

IP Families: IPv4

IP: 10.96.0.1

IPs: 10.96.0.1

Port: https 443/TCP

TargetPort: 8443/TCP

Endpoints: 192.168.49.2:8443

Session Affinity: None

Events: <none>

Name: second-service

Namespace: default

Labels: <none>

Annotations: <none>

Selector: app=second-app

Type: ClusterIP

IP Family Policy: SingleStack

IP Families: IPv4

IP: 10.97.58.138

IPs: 10.97.58.138

Port: <unset> 80/TCP

TargetPort: 80/TCP

Endpoints: 172.17.0.3:80,172.17.0.7:80,172.17.0.8:80

Session Affinity: None

Events: <none>

**rhyme@ip-10-199-79-157:~$**touch ingress.yaml

**rhyme@ip-10-199-79-157:~$**code .

**rhyme@ip-10-199-79-157:~$**minikube ip

192.168.49.2

**rhyme@ip-10-199-79-157:~$**cat /etc/hosts

127.0.0.1 localhost

# The following lines are desirable for IPv6 capable hosts

::1 ip6-localhost ip6-loopback

fe00::0 ip6-localnet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

ff02::3 ip6-allhosts

**rhyme@ip-10-199-79-157:~$**echo "192.168.49.2 myhost.com" >> /etc/hosts

bash: /etc/hosts: Permission denied

**rhyme@ip-10-199-79-157:~$**sudo su

root@ip-10-199-79-157:/home/rhyme/ingress-k8s# echo "192.168.49.2 myhost.com" >> /etc/hosts

root@ip-10-199-79-157:/home/rhyme/ingress-k8s# exit

exit

**rhyme@ip-10-199-79-157:~$**cat /etc/hosts

127.0.0.1 localhost

# The following lines are desirable for IPv6 capable hosts

::1 ip6-localhost ip6-loopback

fe00::0 ip6-localnet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

ff02::3 ip6-allhosts

192.168.49.2 myhost.com

**rhyme@ip-10-199-79-157:~$**minkube ssh

minkube: command not found

**rhyme@ip-10-199-79-157:~$**minikube ssh

docker@minikube:~$ sudo su

root@minikube:/home/docker# echo "192.168.49.2 myhost.com" >> /etc/hosts

root@minikube:/home/docker# cat /etc/hosts

127.0.0.1 localhost

::1 localhost ip6-localhost ip6-loopback

fe00::0 ip6-localnet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

192.168.49.2 minikube

192.168.49.1 host.minikube.internal

192.168.49.2 control-plane.minikube.internal

192.168.49.2 myhost.com

root@minikube:/home/docker# exit

exit

docker@minikube:~$ exit

logout

**rhyme@ip-10-199-79-157:~$**kubectl -f apply ingress.yaml

Error: flags cannot be placed before plugin name: -f

**rhyme@ip-10-199-79-157:~$**kubectl apply -f ingress.yaml

ingress.networking.k8s.io/apps-ingress created

**rhyme@ip-10-199-79-157:~$**curl

curl: try 'curl --help' or 'curl --manual' for more information

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

<html>

<head><title>404 Not Found</title></head>

<body>

<center><h1>404 Not Found</h1></center>

<hr><center>nginx</center>

</body>

</html>

**rhyme@ip-10-199-79-157:~$**kubectl apply -f ingress.yaml

ingress.networking.k8s.io/apps-ingress configured

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "cf30b273-d087-4b94-a4cc-ea97f4d05bf0"

}

rhyme@ip-10-199-79-157:~/ingress-k8s$

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "cf30b273-d087-4b94-a4cc-ea97f4d05bf0"

}

**rhyme@ip-10-199-79-157:~$**clear

--------------------------------------------------------------------------------------------------------------------------------------------------------

**rhyme@ip-10-199-79-157:~$**kubelctl apply -f deployment-a.yaml

Command 'kubelctl' not found, did you mean:

command 'kubectl' from snap kubectl (1.28.5)

See 'snap info <snapname>' for additional versions.

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-a.yaml

deployment.apps/first-app configured

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-b.yaml

deployment.apps/second-app configured

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=first-app

[2024-01-22 12:26:26 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:26:26 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:26:26 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:26:26 +0000] [9] [INFO] Booting worker with pid: 9

[2024-01-22 12:26:24 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:26:24 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:26:24 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:26:24 +0000] [9] [INFO] Booting worker with pid: 9

[2024-01-22 12:26:28 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:26:28 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:26:28 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:26:28 +0000] [10] [INFO] Booting worker with pid: 10

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=second-app

[2024-01-22 12:27:21 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:27:21 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:27:21 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:27:21 +0000] [10] [INFO] Booting worker with pid: 10

[2024-01-22 12:27:19 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:27:19 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:27:19 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:27:19 +0000] [9] [INFO] Booting worker with pid: 9

[2024-01-22 12:27:23 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:27:23 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:27:23 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:27:23 +0000] [9] [INFO] Booting worker with pid: 9

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=first-app

[2024-01-22 12:26:24 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:26:24 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:26:24 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:26:24 +0000] [9] [INFO] Booting worker with pid: 9

[2024-01-22 12:26:28 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:26:28 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:26:28 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:26:28 +0000] [10] [INFO] Booting worker with pid: 10

[2024-01-22 12:26:26 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:26:26 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:26:26 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:26:26 +0000] [9] [INFO] Booting worker with pid: 9

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-a.yaml

deployment.apps/first-app unchanged

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-b.yaml

deployment.apps/second-app configured

**rhyme@ip-10-199-79-157:~$**kubectl apply -f deployment-a.yaml

deployment.apps/first-app configured

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=first-app

[2024-01-22 12:45:07 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:45:07 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:45:07 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:45:07 +0000] [9] [INFO] Booting worker with pid: 9

[2024-01-22 12:45:05 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:45:05 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:45:05 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:45:05 +0000] [10] [INFO] Booting worker with pid: 10

[2024-01-22 12:45:03 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:45:03 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:45:03 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:45:03 +0000] [10] [INFO] Booting worker with pid: 10

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=second-app

[2024-01-22 12:44:48 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:48 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:48 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:48 +0000] [9] [INFO] Booting worker with pid: 9

[2024-01-22 12:44:50 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:50 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:50 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:50 +0000] [9] [INFO] Booting worker with pid: 9

[2024-01-22 12:44:46 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:46 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:46 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:46 +0000] [9] [INFO] Booting worker with pid: 9

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/anything

{

"args": {},

"data": "",

"files": {},

"form": {},

"headers": {

"Accept": "\*/\*",

"Host": "myhost.com",

"User-Agent": "curl/7.58.0",

"X-Forwarded-Host": "myhost.com",

"X-Forwarded-Scheme": "http",

"X-Scheme": "http"

},

"json": null,

"method": "GET",

"origin": "192.168.49.1",

"url": "http://myhost.com/anything"

}

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=first-app

[2024-01-22 12:45:05 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:45:05 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:45:05 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:45:05 +0000] [10] [INFO] Booting worker with pid: 10

172.17.0.9 [22/Jan/2024:12:45:38 +0000] GET /anything HTTP/1.1 200 Host: myhost.com}

[2024-01-22 12:45:03 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:45:03 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:45:03 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:45:03 +0000] [10] [INFO] Booting worker with pid: 10

172.17.0.9 [22/Jan/2024:12:45:40 +0000] GET /anything HTTP/1.1 200 Host: myhost.com}

[2024-01-22 12:45:07 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:45:07 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:45:07 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:45:07 +0000] [9] [INFO] Booting worker with pid: 9

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "1449c971-870d-4a32-94dc-be0ce91fc984"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "6870d625-e629-4472-a395-5aae83b486a0"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "e752ac26-5849-43a0-83a5-c774e6c9224d"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "c79f0481-d95d-46c3-8ed9-a0b66a0a3fd9"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "6da431a6-b427-4473-a20d-e38b6de81b71"

}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid

{

"uuid": "91533b81-d1ea-4298-b585-533a6848c94e"

}

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=second-app

[2024-01-22 12:44:48 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:48 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:48 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:48 +0000] [9] [INFO] Booting worker with pid: 9

172.17.0.9 [22/Jan/2024:12:46:31 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

172.17.0.9 [22/Jan/2024:12:46:34 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

[2024-01-22 12:44:50 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:50 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:50 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:50 +0000] [9] [INFO] Booting worker with pid: 9

172.17.0.9 [22/Jan/2024:12:46:33 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

172.17.0.9 [22/Jan/2024:12:46:36 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

[2024-01-22 12:44:46 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:46 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:46 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:46 +0000] [9] [INFO] Booting worker with pid: 9

172.17.0.9 [22/Jan/2024:12:46:29 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

172.17.0.9 [22/Jan/2024:12:46:32 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

**rhyme@ip-10-199-79-157:~$**curl myhost.com/uuid123

<html>

<head><title>404 Not Found</title></head>

<body>

<center><h1>404 Not Found</h1></center>

<hr><center>nginx</center>

</body>

</html>

**rhyme@ip-10-199-79-157:~$**kubectl logs -l app=second-app

[2024-01-22 12:44:48 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:48 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:48 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:48 +0000] [9] [INFO] Booting worker with pid: 9

172.17.0.9 [22/Jan/2024:12:46:31 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

172.17.0.9 [22/Jan/2024:12:46:34 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

[2024-01-22 12:44:50 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:50 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

[2024-01-22 12:44:50 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:50 +0000] [9] [INFO] Booting worker with pid: 9

172.17.0.9 [22/Jan/2024:12:46:33 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

172.17.0.9 [22/Jan/2024:12:46:36 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

[2024-01-22 12:44:46 +0000] [1] [INFO] Starting gunicorn 19.9.0

[2024-01-22 12:44:46 +0000] [1] [INFO] Listening at: http://0.0.0.0:80 (1)

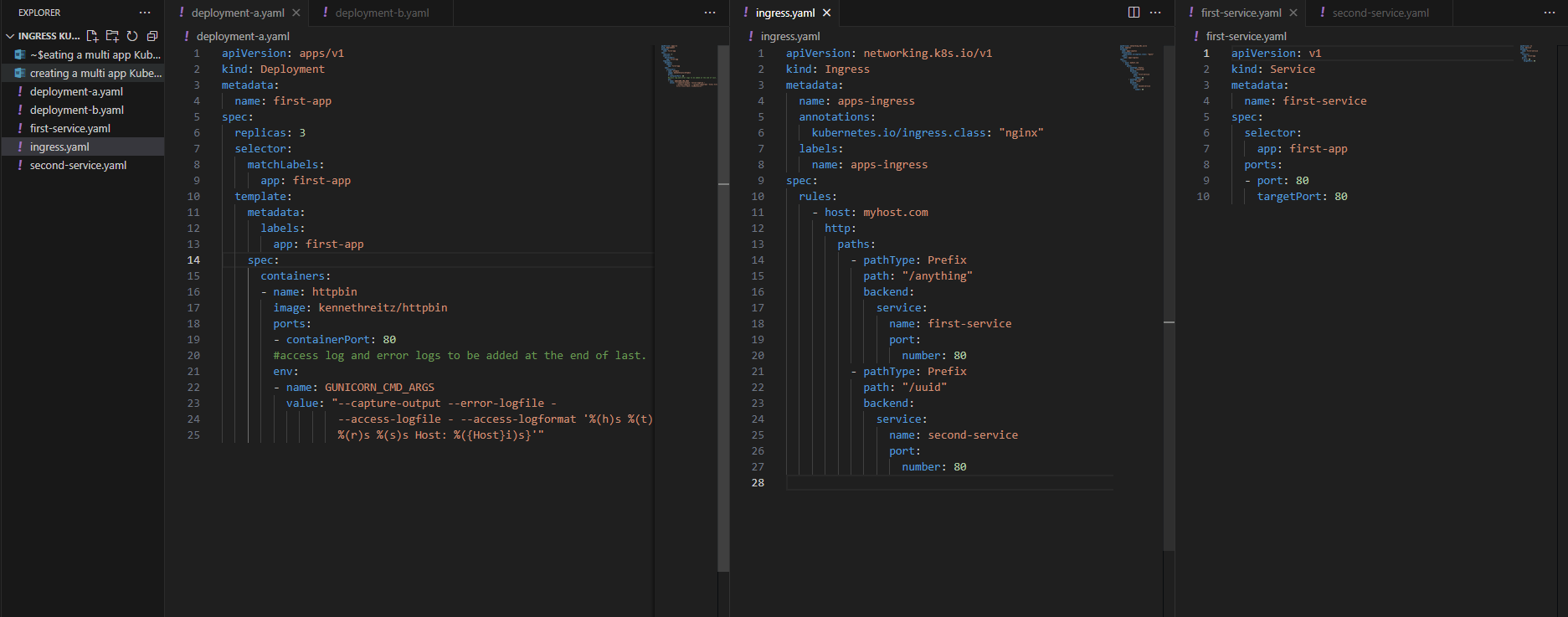
[2024-01-22 12:44:46 +0000] [1] [INFO] Using worker: gevent

[2024-01-22 12:44:46 +0000] [9] [INFO] Booting worker with pid: 9

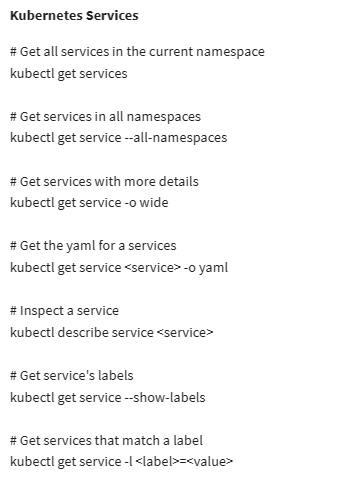
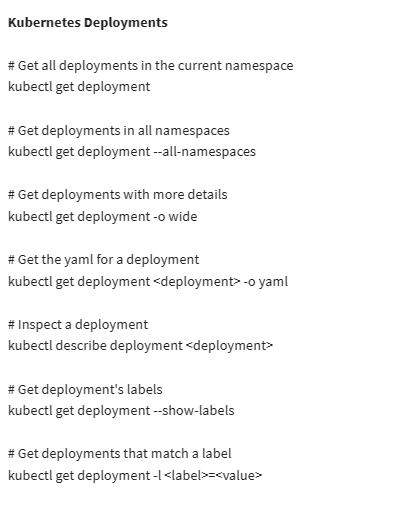
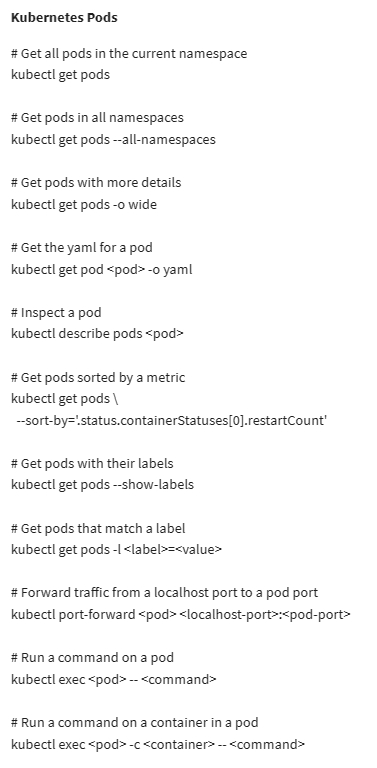
172.17.0.9 [22/Jan/2024:12:46:29 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

172.17.0.9 [22/Jan/2024:12:46:32 +0000] GET /uuid HTTP/1.1 200 Host: myhost.com}

rhyme@ip-10-199-79-157:~/ingress-k8s$



**Key Takeaways**



**s­**