Ishita Hardasmalani

C14-2103058

EXPERIMENT NO.10

Aim: To study and implement container orchestration using Kubernetes.

Theory:

Container orchestration tools simplify the management of containerized applications, making them easier to deploy, scale, manage, and maintain in production environments. They play a crucial role in enabling organizations to leverage the benefits of container technology while ensuring reliability, scalability, and efficiency.Container orchestration tools are essential in managing the complexities of deploying and scaling containerized applications efficiently.

1. Scalability: Containerized applications need to be able to scale rapidly to meet fluctuating demand. Orchestration tools provide mechanisms to automatically scale containers up or down based on factors like CPU usage, memory consumption, or incoming traffic.

2. High Availability: Orchestration tools ensure that applications remain available even if individual containers or entire nodes fail. They automatically detect failures and reschedule containers on healthy nodes to maintain service availability.

3. Resource Optimization: Orchestration tools optimize the allocation of resources by efficiently packing containers onto host machines. They balance the workload across the infrastructure, ensuring that resources are utilized effectively without wasting capacity.

4. Service Discovery and Load Balancing: As containerized applications are often composed of multiple microservices, orchestration tools facilitate service discovery and load balancing. They enable containers to locate and communicate with each other dynamically, distributing incoming requests across multiple instances to prevent bottlenecks.

5. Rolling Updates and Rollbacks: Orchestration tools support seamless deployment of updates to applications without downtime. They enable rolling updates, where new container instances are gradually introduced

while old instances are retired, ensuring continuous availability. In case of issues, they also allow for quick rollbacks to previous versions.

6. Configuration Management: Orchestration tools provide mechanisms for managing configuration parameters across containers, ensuring consistency and facilitating easy updates. They allow for centralized management of environment variables, secrets, and other configuration settings.

7. Health Monitoring and Logging: Orchestration tools monitor the health of containers and nodes, providing insights into the overall status of the application infrastructure. They collect logs and metrics from containers and make them available for analysis, troubleshooting, and performance optimization.

8. Security: Orchestration tools offer features to enhance the security of containerized applications, such as network segmentation, access controls, and automated security updates. They help enforce security policies and best practices across the container environment.

Kubernetes is an open-source container orchestration platform originally developed by Google, now maintained by the Cloud Native Computing Foundation (CNCF). It provides a robust infrastructure for automating deployment, scaling, and managing containerized applications. Here are some of its key features:

1. Container Orchestration: Kubernetes automates the deployment, scaling, and management of containerized applications across clusters of hosts. It abstracts away the underlying infrastructure, allowing developers to focus on building and running their applications without worrying about the complexities of managing individual containers.

2. Service Discovery and Load Balancing: Kubernetes provides built-in service discovery and load balancing mechanisms. Services are assigned unique DNS names, which are automatically updated as containers are created or terminated. Kubernetes also distributes incoming traffic across multiple instances of a service to ensure high availability and optimal performance.

3. Automatic Scaling: Kubernetes supports both manual and automatic scaling of application instances based on resource utilization metrics such as CPU and memory usage. Horizontal Pod Autoscaling (HPA) automatically adjusts the number of replica pods in a deployment to match the desired resource utilization levels, ensuring that applications can handle fluctuations in demand effectively.

4. Rolling Updates and Rollbacks: Kubernetes facilitates seamless updates to applications through rolling updates. It gradually replaces old instances of containers with new ones, ensuring that the application remains available throughout the update process. In case of issues, Kubernetes supports quick rollbacks to previous versions, minimizing downtime and reducing the risk of service disruptions.

5. Storage Orchestration: Kubernetes provides built-in support for persistent storage, allowing applications to store and access data beyond the lifecycle of individual containers. It offers various storage options, including local storage, network-attached storage (NAS), and cloud-based storage solutions, and provides mechanisms for dynamically provisioning and attaching storage volumes to containers as needed.

6. Self-Healing: Kubernetes continuously monitors the health of containers and nodes in the cluster. If a container or node fails, Kubernetes automatically restarts failed containers, reschedules them onto healthy nodes, and replaces unhealthy nodes as necessary to maintain the desired state of the application.

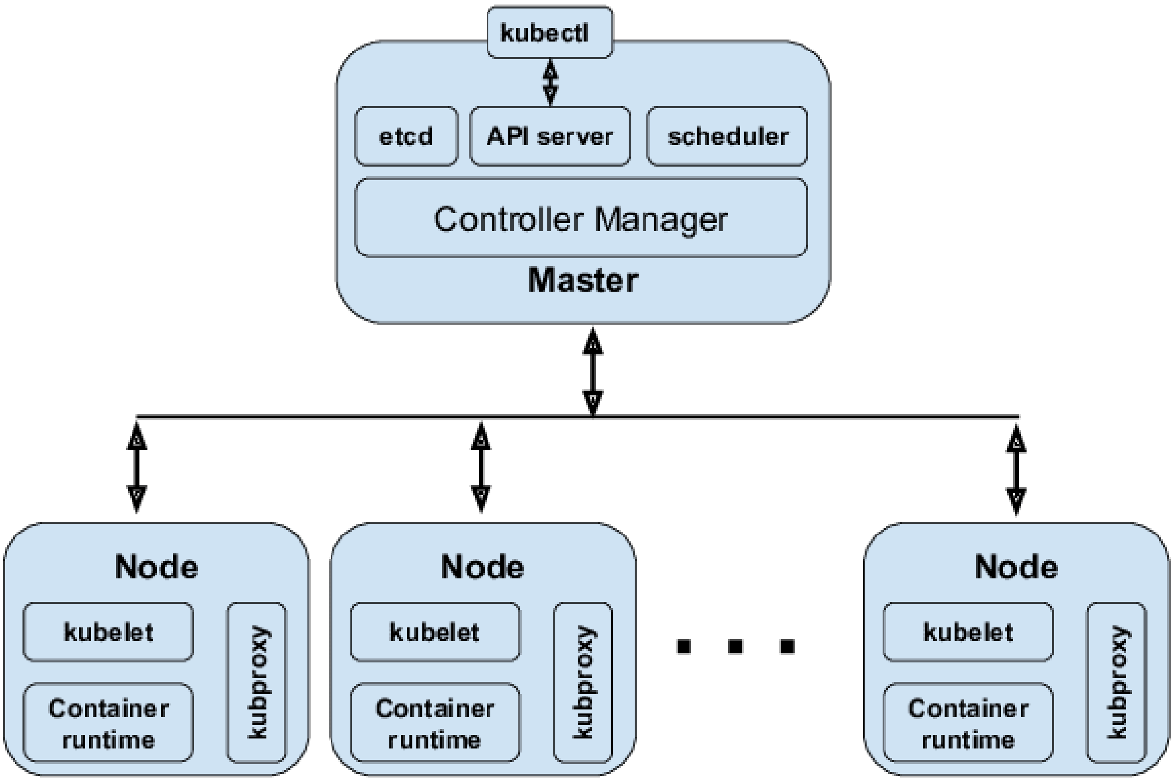
7. Declarative Configuration: Kubernetes uses declarative YAML or JSON configuration files to define the desired state of applications, services, and infrastructure components. Developers specify the desired configuration, and Kubernetes handles the details of ensuring that the actual state matches the desired state, automatically making any necessary adjustments as needed.

8. Extensibility and Ecosystem: Kubernetes is highly extensible and provides a rich ecosystem of plugins, extensions, and integrations. It supports custom resource definitions (CRDs) and operators, allowing

users to extend Kubernetes functionality to support custom application requirements or integrate with third-party tools and services.

Kubernetes is an open-source container orchestration platform designed to automate the deployment, scaling, and management of containerized applications. It was originally developed by Google and is now maintained by the Cloud Native Computing Foundation (CNCF). Kubernetes provides a robust set of features for managing containerized workloads across a cluster of machines.

Components of Kubernetes:



1. Master Node:

- **kube-apiserver**: Exposes the Kubernetes API, which is used by other components to communicate with the cluster.

- **kube-controller-manager**: Manages various controllers that regulate the state of the cluster, such as node and replication controllers.

- **kube-scheduler**: Responsible for scheduling pods (groups of containers) onto nodes based on resource requirements and constraints.

2. Worker Node:

- **kubelet**: Acts as an agent running on each node in the cluster, responsible for managing containers, pods, and their lifecycle.

- **kube-proxy**: Maintains network rules and performs load balancing across services.

- **Container Runtime**: The software responsible for running containers, such as Docker, containerd, or CRI-O.

3. etcd:

- Distributed key-value store used as Kubernetes' backing store for all cluster data, including configuration details and state.

Working of Kubernetes:

1. Deployment: Users define the desired state of their applications using Kubernetes manifests (YAML or JSON files) specifying details such as container images, resource requirements, and scaling policies.

2. **API Server**: Users interact with the Kubernetes cluster through the API server, which exposes endpoints for managing resources.

3. **Scheduler**: The scheduler assigns pods to nodes based on resource requirements, node capacity, and other constraints.

4. **Kubelet**: Runs on each node and ensures that the containers described in the pods are running and healthy. It communicates with the API server to receive pod specifications and report the status of containers.

5. **Controller Manager**: Monitors the cluster state and ensures that the current state matches the desired state defined by users. It includes controllers like the replication controller, which manages the number of pod replicas, and the node controller, which handles node lifecycle events.

6. **etcd**: Stores the state of the entire Kubernetes cluster, including configuration data, secrets, and the state of running pods.

Kubernetes Architecture:

- **Master-Worker Architecture**: Kubernetes follows a master-worker architecture, where the master node manages and controls the cluster's state and configuration, while worker nodes execute the actual containerized workloads.

- **Declarative Model**: Kubernetes uses a declarative model, where users specify the desired state of their applications, and Kubernetes ensures that the current state matches the desired state continuously.

- **High Availability**: Kubernetes supports high availability by allowing multiple master nodes and providing mechanisms for automatic failover and redundancy.

- **Networking**: Kubernetes manages networking between pods and services using a flat, virtual network that spans all nodes in the cluster. Each pod gets its IP address, and containers within the same pod share the same network namespace.

- **Plugins and Extensions**: Kubernetes offers a modular architecture with a rich ecosystem of plugins and extensions for networking, storage, monitoring, logging, and security, allowing users to customize and extend Kubernetes to meet their specific requirements.

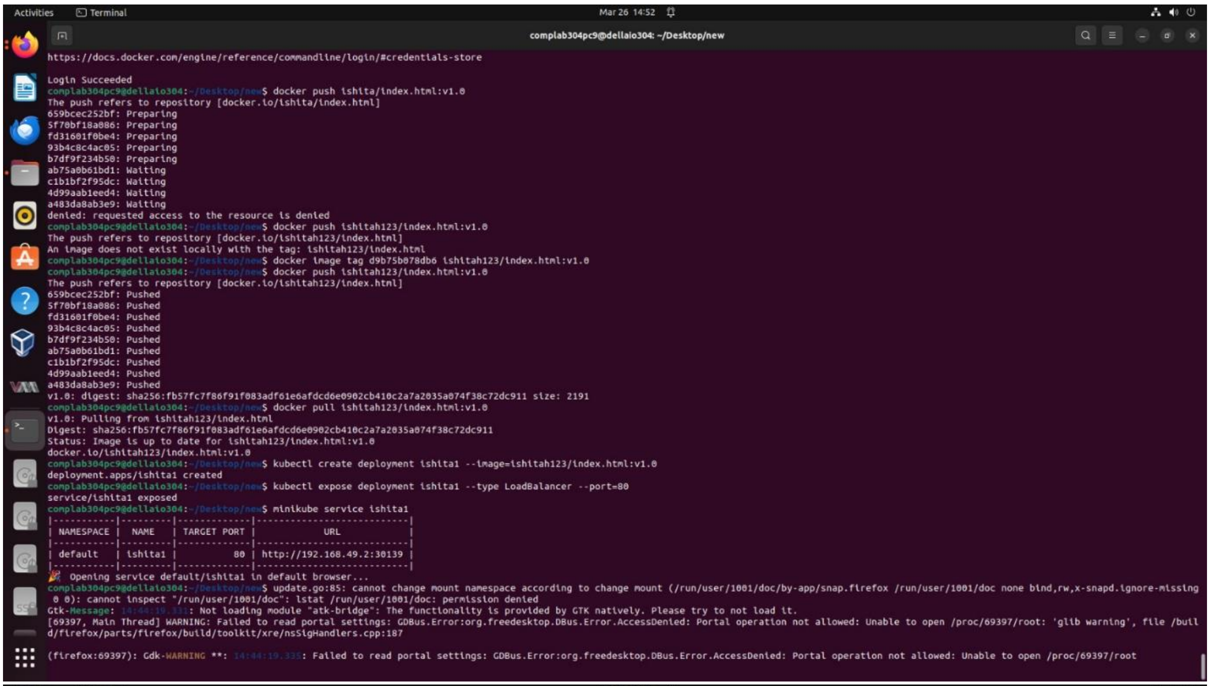
Aspect	Pod	Node
Definition	Smallest deployable unit in Kubernetes	A physical or virtual machine in the cluster
Composition	One or more containers	Hosts multiple Pods
Atomic Unit	Single instance of a workload	A single machine in the cluster
Networking	Each Pod has its own unique IP address	Each Node has a unique IP address
Resource	Consumes resources such as CPU, memory, etc.	Provides resources to run Pods
Scheduling	Scheduled to run on a Node by Kubernetes	Managed by Kubernetes scheduler
Lifecycle	Pods can be created, deleted, or terminated	Nodes can be added, removed, or drained
Failover	If a Pod fails, Kubernetes restarts it	If a Node fails, Kubernetes reschedules Pods
Scaling	Horizontal scaling is done by replicating Pods	Vertical scaling is done by adding resources
Management	Managed by Kubernetes through the API server	Managed by the kubelet and Kubernetes master
Independence	Pods are independent of each other	Nodes are part of the overall cluster
Health Checks	Kubernetes checks Pod health using probes	Nodes are checked for health using probes

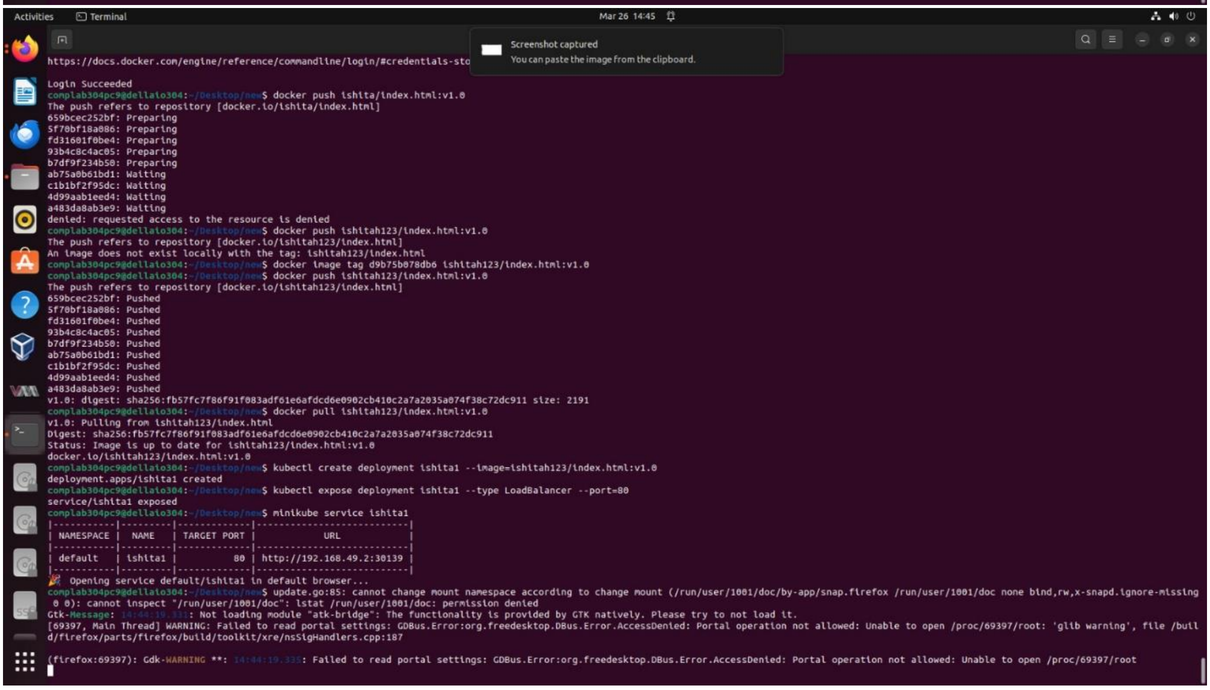
Kubernetes and Docker Swarm both provide container orchestration capabilities, but they differ in their architecture, scalability, feature set, and target audience. Kubernetes is favored for its extensive features, scalability, and large ecosystem, making it suitable for managing large, complex containerized applications. On the other hand, Docker Swarm is simpler to set up and use, making it a good choice for smaller deployments or organizations already using Docker.

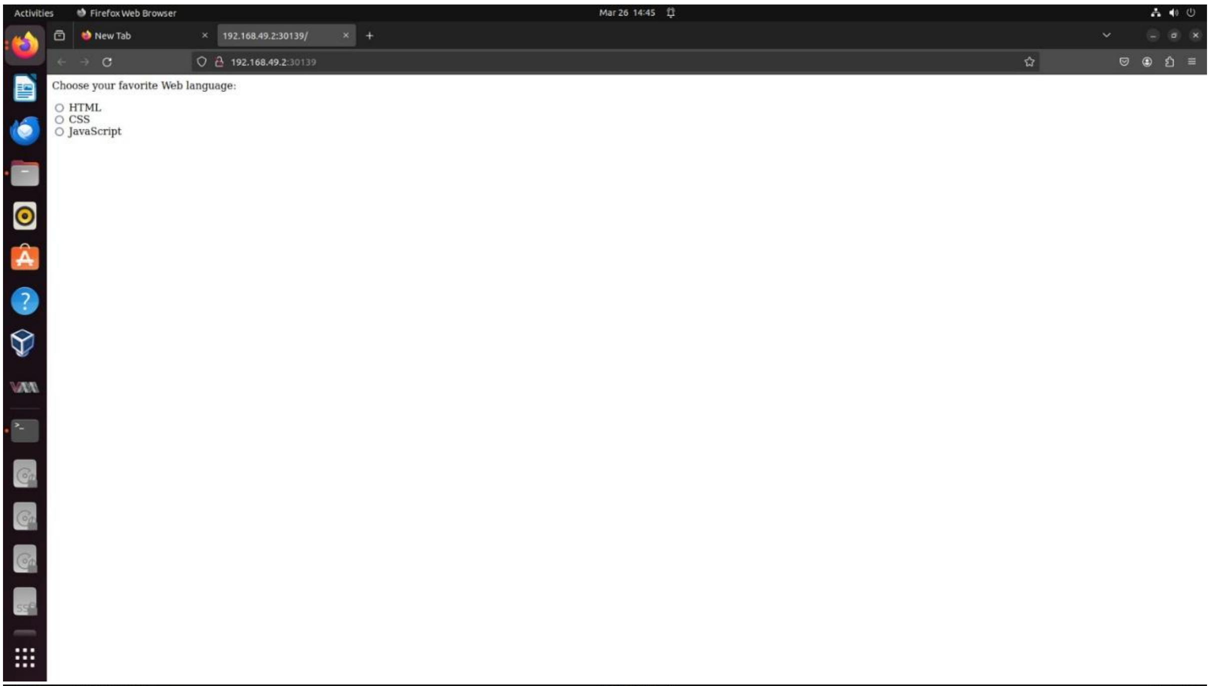
Aspect	Kubernetes	Docker Swarm
Origin	Developed by Google, open-sourced, and managed by CNCF	Developed and maintained by Docker
Architecture	Master-worker architecture	Decentralized architecture
Scalability	Highly scalable, suitable for large, complex deployments	Scales well for small to medium deployments
Orchestration Features	Rich set of features including auto-scaling, rolling updates, service discovery, and more	Provides basic orchestration features like service discovery, load balancing, and rolling updates
Networking	Offers a highly flexible networking model with built-in solutions like Kubernetes Networking (kubenet) and Container Network Interface (CNI) plugins	Networking features are simpler compared to Kubernetes, but support overlay networks and other basic networking functionalities

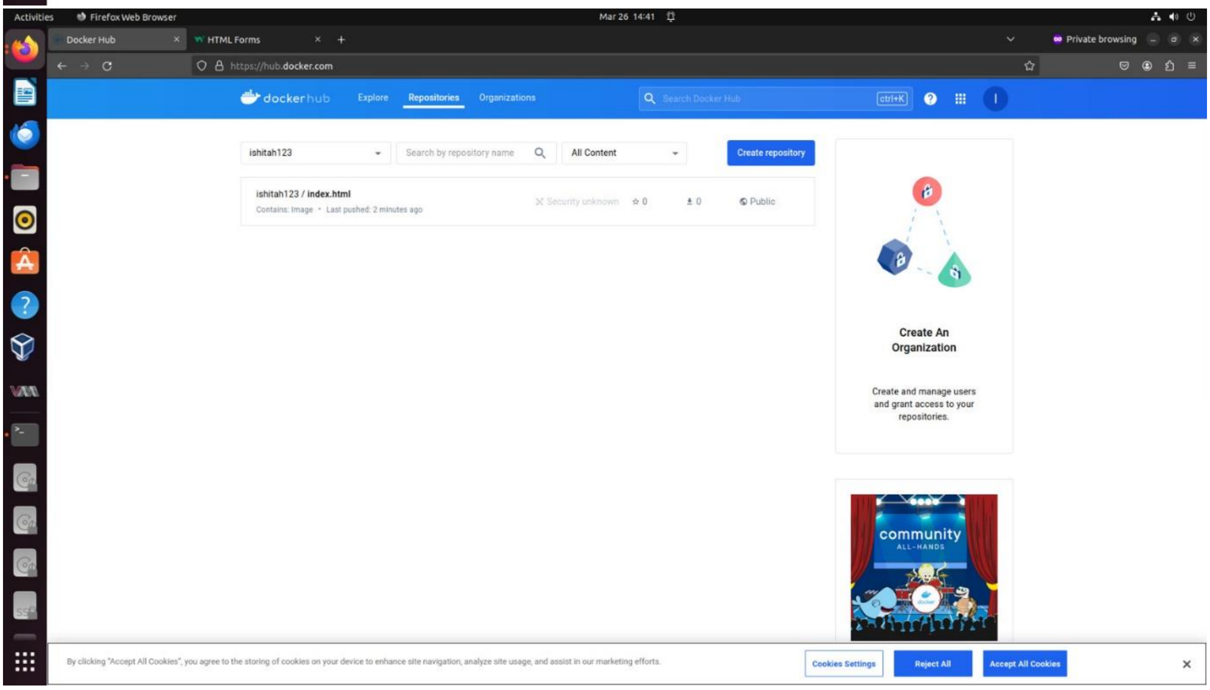
Aspect	Kubernetes	Docker Swarm
Configuration	Uses YAML or JSON manifests for defining resources and configurations	Supports Docker Compose for defining services, but configurations are generally simpler compared to Kubernetes
Community & Ecosystem	Large and vibrant community with extensive ecosystem of tools, plugins, and third-party integrations	Growing community and ecosystem, but smaller compared to Kubernetes
Learning Curve	Steeper learning curve due to its complexity and rich feature set	Generally simpler to learn and use, especially for users already familiar with Docker
Adoption	Widely adopted across industries and enterprises for managing complex containerized workloads at scale	Popular among small to medium-sized deployments and organizations already using Docker for containerization
Vendor Support	Supported by various cloud providers and vendors offering managed Kubernetes services	Docker provides Swarm as part of its Docker Enterprise Edition (EE) offering, and there are some third-party solutions available for support

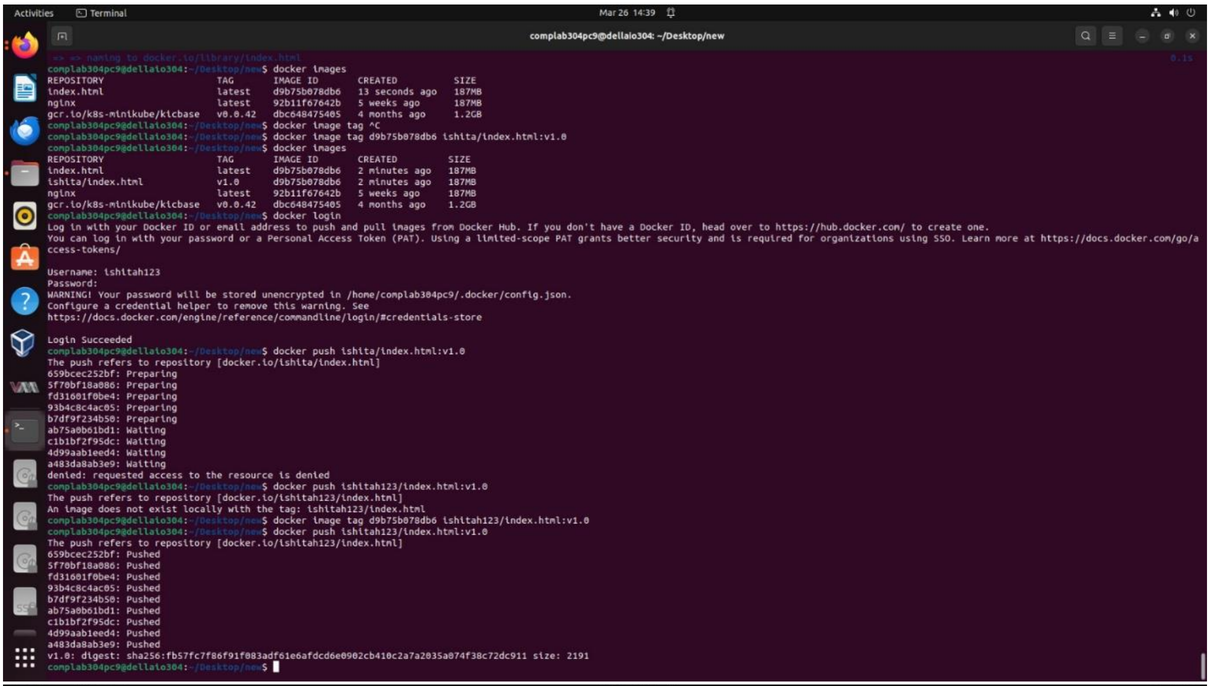
Implementation:

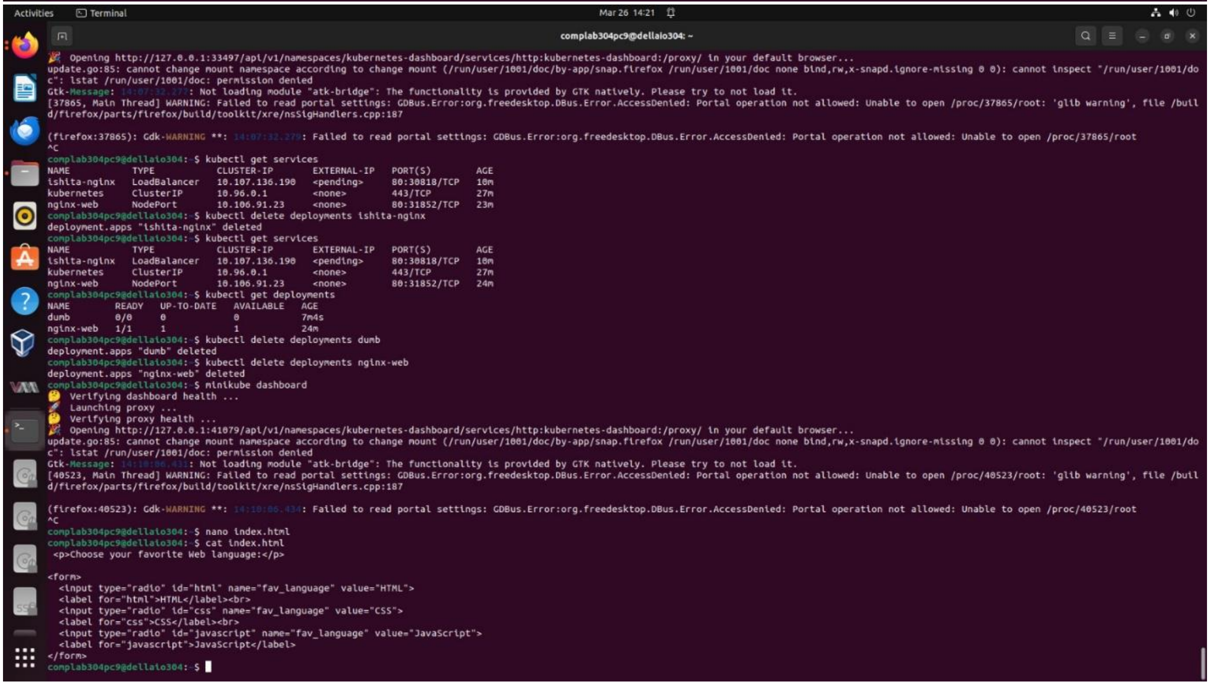


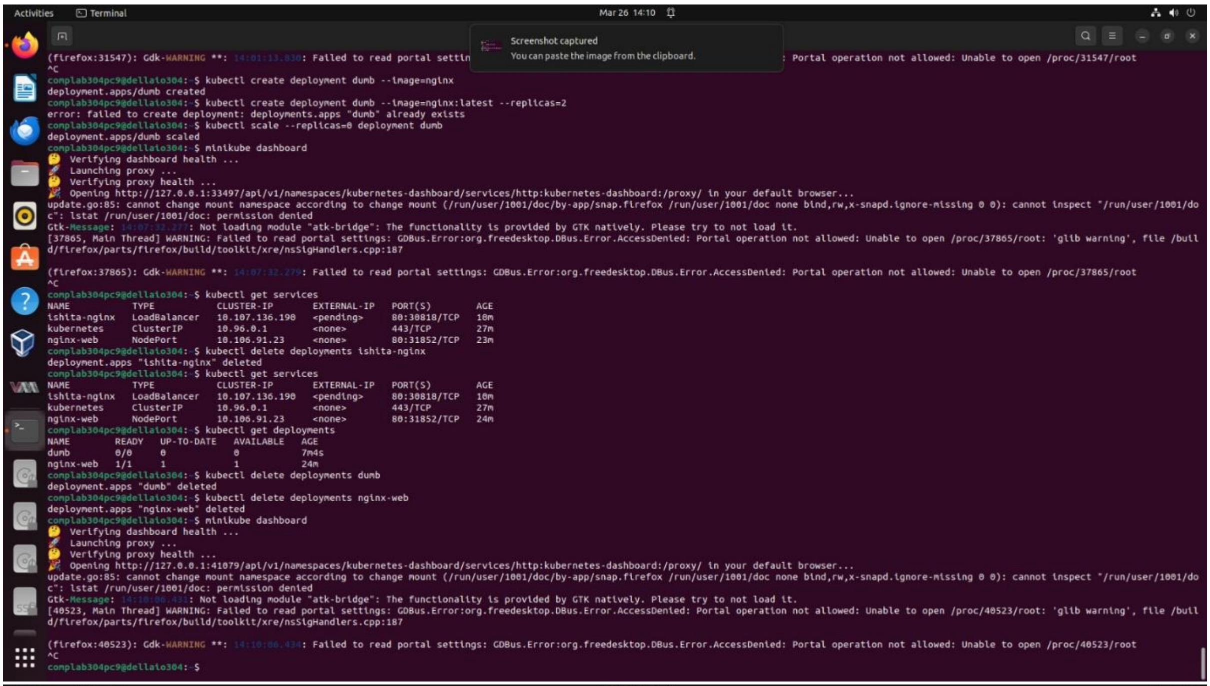



Activities
Firefox Web Browser
Mar 26 14:45
New Tab
192.168.49.2:30139/
192.168.49.2:30139
Choose your favorite Web language:
HTML
CSS
JavaScript


Activities
Firefox Web Browser
Mar 26 14:41
Docker Hub
HTML Forms
Private browsing
https://hub.docker.com
docker hub
Explore
Repositories
Organizations
Search Docker Hub
ctrl+K
ishitah123
Search by repository name
All Content
Create repository
ishitah123 / index.html
Contains: Image · Last pushed: 2 minutes ago
Security unknown
0
0
Public
Create An Organization
Create and manage users and grant access to your repositories.
community
ALL-HANDS
By clicking "Accept All Cookies", you agree to the storing of cookies on your device to enhance site navigation, analyze site usage, and assist in our marketing efforts.
Cookies Settings
Reject All
Accept All Cookies


Activities
Terminal
Mar 26 14:39
complab304pc9@dellaio304: ~/Desktop/new
=> => naming to docker.io/library/index.html
complab304pc9@dellaio304:~/Desktop/new$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
index.html latest d9b75b078db6 13 seconds ago 187MB
nginx latest 92b11f67642b 5 weeks ago 187MB
gcr.io/k8s-minikube/kicbase v0.0.42 dbc648475405 4 months ago 1.2GB
complab304pc9@dellaio304:~/Desktop/new$ docker image tag ^C
complab304pc9@dellaio304:~/Desktop/new$ docker image tag d9b75b078db6 ishita/index.html:v1.0
complab304pc9@dellaio304:~/Desktop/new$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
index.html latest d9b75b078db6 2 minutes ago 187MB
ishita/index.html v1.0 d9b75b078db6 2 minutes ago 187MB
nginx latest 92b11f67642b 5 weeks ago 187MB
gcr.io/k8s-minikube/kicbase v0.0.42 dbc648475405 4 months ago 1.2GB
complab304pc9@dellaio304:~/Desktop/new$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com/ to create one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is required for organizations using SSO. Learn more at https://docs.docker.com/go/access-tokens/
Username: ishitah123
Password:
WARNING! Your password will be stored unencrypted in /home/complab304pc9/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
complab304pc9@dellaio304:~/Desktop/new$ docker push ishita/index.html:v1.0
The push refers to repository [docker.io/ishita/index.html]
659bcec252bf: Preparing
5f70bf18a086: Preparing
fd31601f0be4: Preparing
93b4c8c4ac05: Preparing
b7df9f234b50: Preparing
ab75a0b61bd1: Waiting
c1b1bf2f95dc: Waiting
4d99aab1eed4: Waiting
a483da8ab3e9: Waiting
denied: requested access to the resource is denied
complab304pc9@dellaio304:~/Desktop/new$ docker push ishitah123/index.html:v1.0
The push refers to repository [docker.io/ishitah123/index.html]
An image does not exist locally with the tag: ishitah123/index.html
complab304pc9@dellaio304:~/Desktop/new$ docker image tag d9b75b078db6 ishitah123/index.html:v1.0
complab304pc9@dellaio304:~/Desktop/new$ docker push ishitah123/index.html:v1.0
The push refers to repository [docker.io/ishitah123/index.html]
659bcec252bf: Pushed
5f70bf18a086: Pushed
fd31601f0be4: Pushed
93b4c8c4ac05: Pushed
b7df9f234b50: Pushed
ab75a0b61bd1: Pushed
c1b1bf2f95dc: Pushed
4d99aab1eed4: Pushed
a483da8ab3e9: Pushed
v1.0: digest: sha256:fb57fc7f86f91f083adf61e6afdcd6e0902cb410c2a7a2035a074f38c72dc911 size: 2191
complab304pc9@dellaio304:~/Desktop/new$


Activities
Terminal
Mar 26 14:21
complab304pc9@dellaio304: ~
Opening http://127.0.0.1:33497/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[37865, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:37865): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root
^C
complab304pc9@dellaio304:~$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
ishita-nginx LoadBalancer 10.107.136.190 <pending> 80:30818/TCP 10m
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 27m
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 23m
complab304pc9@dellaio304:~$ kubectl delete deployments ishita-nginx
deployment.apps "ishita-nginx" deleted
complab304pc9@dellaio304:~$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
ishita-nginx LoadBalancer 10.107.136.190 <pending> 80:30818/TCP 10m
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 27m
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 24m
complab304pc9@dellaio304:~$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
dumb 0/0 0 0 7m4s
nginx-web 1/1 1 1 24m
complab304pc9@dellaio304:~$ kubectl delete deployments dumb
deployment.apps "dumb" deleted
complab304pc9@dellaio304:~$ kubectl delete deployments nginx-web
deployment.apps "nginx-web" deleted
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:41079/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[40523, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/40523/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:40523): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/40523/root
^C
complab304pc9@dellaio304:~$ nano index.html
complab304pc9@dellaio304:~$ cat index.html
<p>Choose your favorite Web language:</p>
<form>
<input type="radio" id="html" name="fav_language" value="HTML">
<label for="html">HTML</label>
<input type="radio" id="css" name="fav_language" value="CSS">
<label for="css">CSS</label>
<input type="radio" id="javascript" name="fav_language" value="JavaScript">
<label for="javascript">JavaScript</label>
</form>
complab304pc9@dellaio304:~$


Activities
Terminal
Mar 26 14:10
Screenshot captured
You can paste the image from the clipboard.
(firefox:31547): Gdk-WARNING **: 14:01:13.830: Failed to read portal settin
: Portal operation not allowed: Unable to open /proc/31547/root
^C
complab304pc9@dellaio304:~$ kubectl create deployment dumb --image=nginx
deployment.apps/dumb created
complab304pc9@dellaio304:~$ kubectl create deployment dumb --image=nginx:latest --replicas=2
error: failed to create deployment: deployments.apps "dumb" already exists
complab304pc9@dellaio304:~$ kubectl scale --replicas=0 deployment dumb
deployment.apps/dumb scaled
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:33497/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: 14:07:32.277: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[37865, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:37865): Gdk-WARNING **: 14:07:32.279: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root
^C
complab304pc9@dellaio304:~$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
ishita-nginx LoadBalancer 10.107.136.190 <pending> 80:30818/TCP 10m
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 27m
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 23m
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deployment.apps "ishita-nginx" deleted
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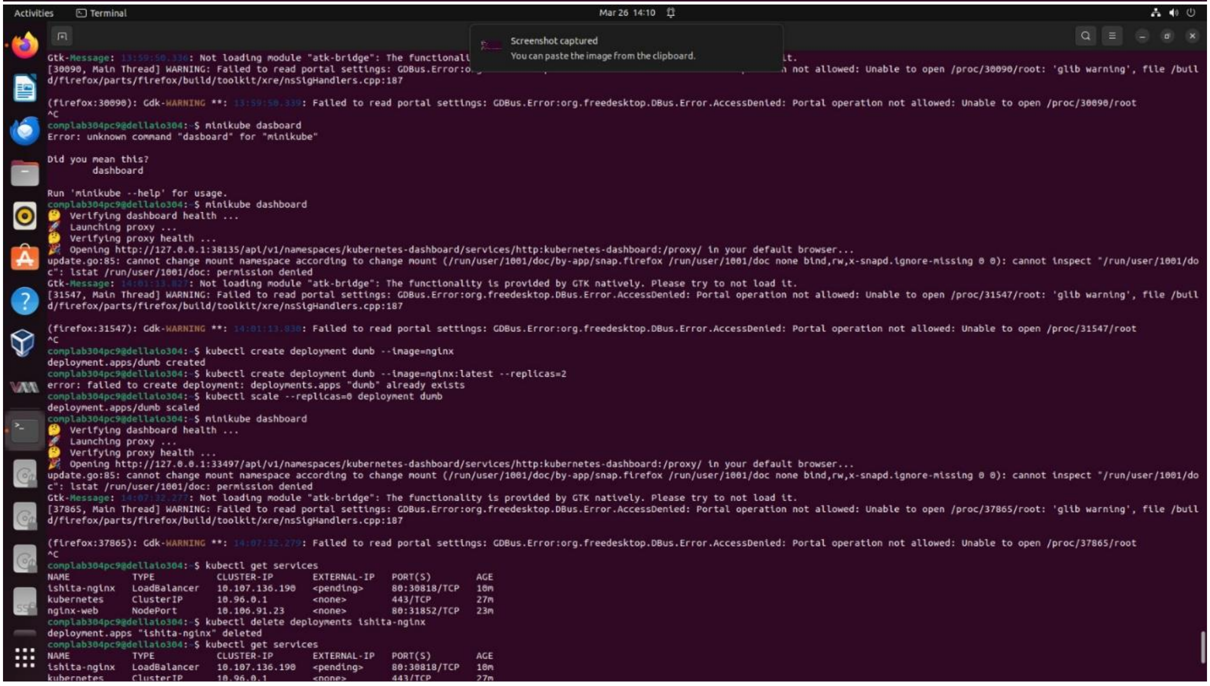
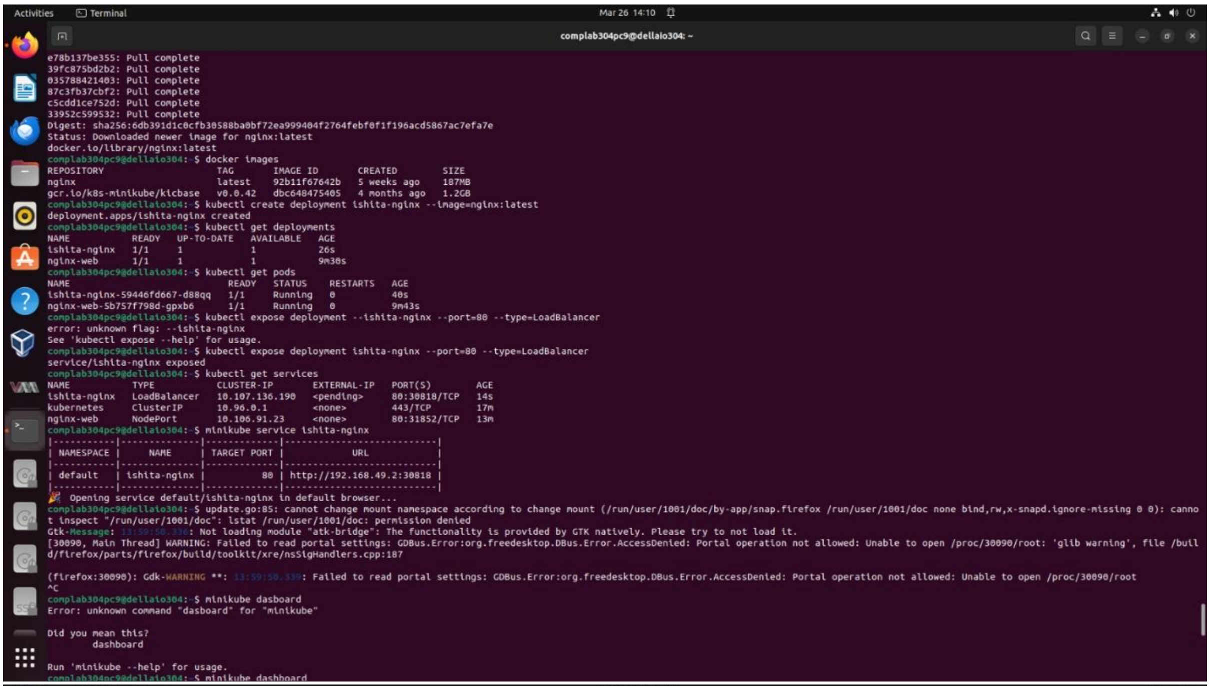
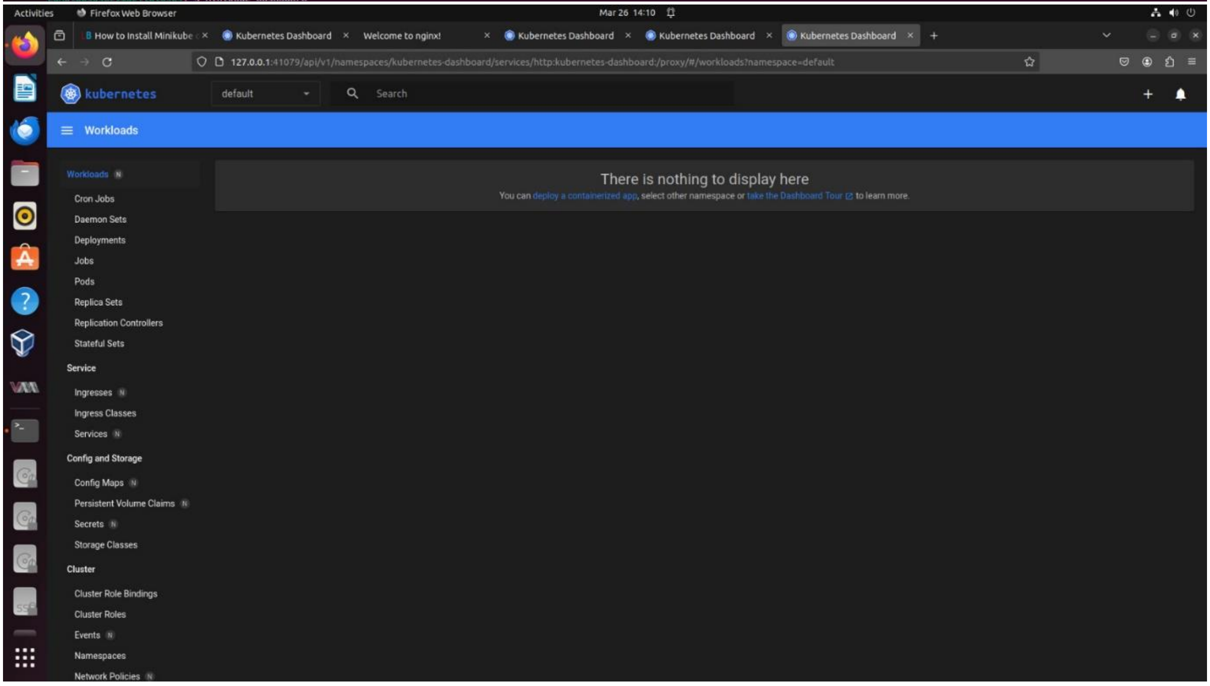
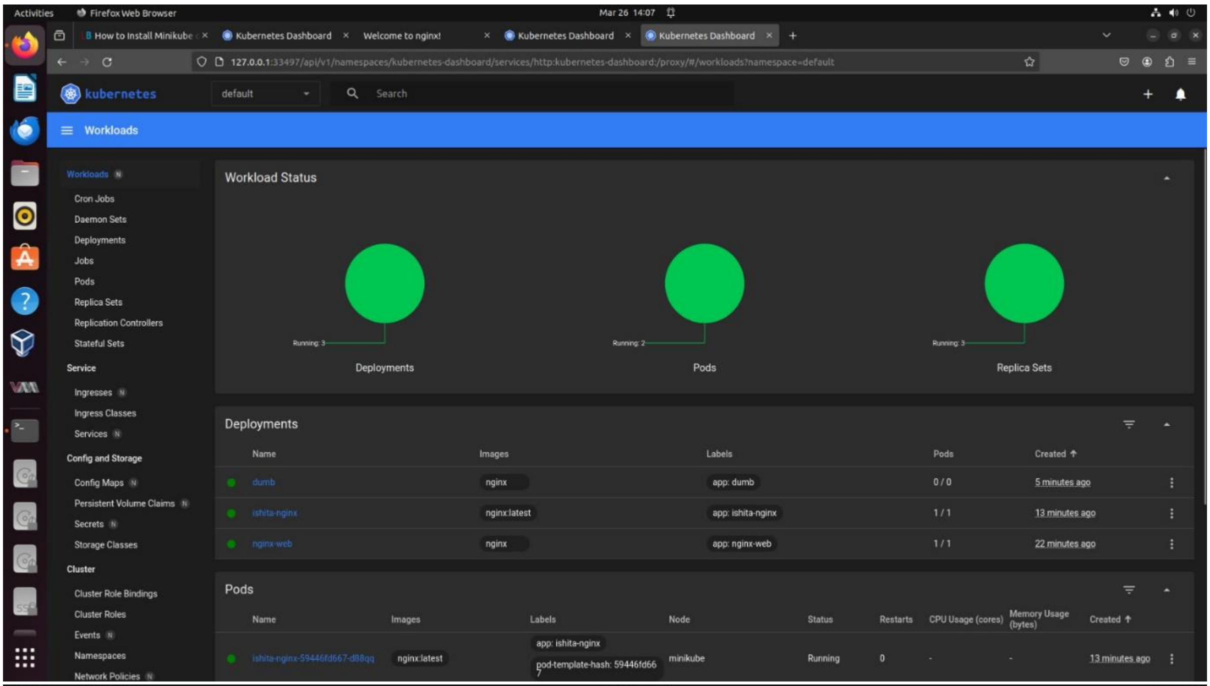
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 27m
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 24m
complab304pc9@dellaio304:~$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
dumb 0/0 0 0 7m4s
nginx-web 1/1 1 1 24m
complab304pc9@dellaio304:~$ kubectl delete deployments dumb
deployment.apps "dumb" deleted
complab304pc9@dellaio304:~$ kubectl delete deployments nginx-web
deployment.apps "nginx-web" deleted
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:41079/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: 14:10:06.431: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[40523, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/40523/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:40523): Gdk-WARNING **: 14:10:06.434: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/40523/root
^C
complab304pc9@dellaio304:~$

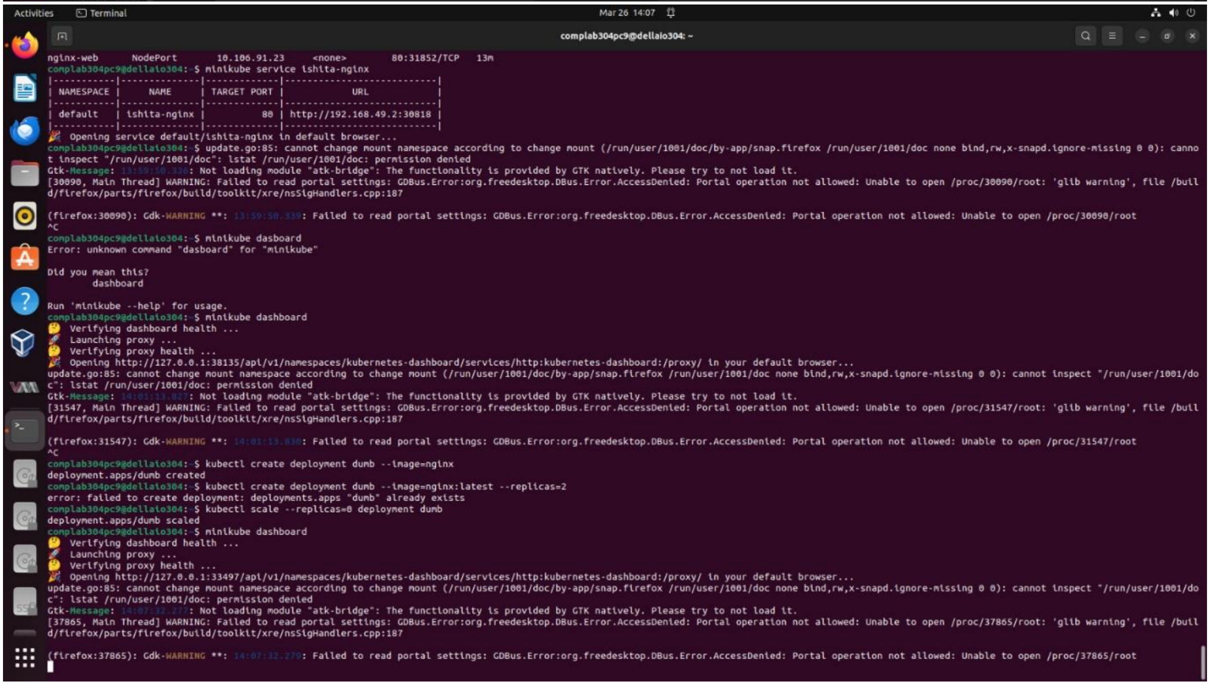

Activities
Terminal
Mar 26 14:10
Screenshot captured
You can paste the image from the clipboard.
Gtk-Message: 13:59:50.336: Not loading module "atk-bridge": The functionali
t.
[30090, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:o
n not allowed: Unable to open /proc/30090/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:30090): Gdk-WARNING **: 13:59:50.339: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/30090/root
^C
complab304pc9@dellaio304:~$ minikube dasboard
Error: unknown command "dasboard" for "minikube"
Did you mean this?
dashboard
Run 'minikube --help' for usage.
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:38135/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: 14:01:13.827: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[31547, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/31547/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:31547): Gdk-WARNING **: 14:01:13.830: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/31547/root
^C
complab304pc9@dellaio304:~$ kubectl create deployment dumb --image=nginx
deployment.apps/dumb created
complab304pc9@dellaio304:~$ kubectl create deployment dumb --image=nginx:latest --replicas=2
error: failed to create deployment: deployments.apps "dumb" already exists
complab304pc9@dellaio304:~$ kubectl scale --replicas=0 deployment dumb
deployment.apps/dumb scaled
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:33497/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: 14:07:32.277: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[37865, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:37865): Gdk-WARNING **: 14:07:32.279: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root
^C
complab304pc9@dellaio304:~$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
ishita-nginx LoadBalancer 10.107.136.190 <pending> 80:30818/TCP 10m
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 27m
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 23m
complab304pc9@dellaio304:~$ kubectl delete deployments ishita-nginx
deployment.apps "ishita-nginx" deleted
complab304pc9@dellaio304:~$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
ishita-nginx LoadBalancer 10.107.136.190 <pending> 80:30818/TCP 10m
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 27m


Activities
Terminal
Mar 26 14:10
complab304pc9@dellaio304: ~
e78b137be355: Pull complete
39fc875bd2b2: Pull complete
035788421403: Pull complete
87c3fb37cbf2: Pull complete
c5cdd1ce752d: Pull complete
33952c599532: Pull complete
Digest: sha256:6db391d1c0cfb30588ba0bf72ea999404f2764febf0f1f196acd5867ac7efa7e
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
complab304pc9@dellaio304:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 92b11f67642b 5 weeks ago 187MB
gcr.io/k8s-minikube/kicbase v0.0.42 dbc648475405 4 months ago 1.2GB
complab304pc9@dellaio304:~$ kubectl create deployment ishita-nginx --image=nginx:latest
deployment.apps/ishita-nginx created
complab304pc9@dellaio304:~$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
ishita-nginx 1/1 1 1 26s
nginx-web 1/1 1 1 9m30s
complab304pc9@dellaio304:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
ishita-nginx-59446fd667-d88qq 1/1 Running 0 40s
nginx-web-5b757f798d-gpxb6 1/1 Running 0 9m43s
complab304pc9@dellaio304:~$ kubectl expose deployment --ishita-nginx --port=80 --type=LoadBalancer
error: unknown flag: --ishita-nginx
See 'kubectl expose --help' for usage.
complab304pc9@dellaio304:~$ kubectl expose deployment ishita-nginx --port=80 --type=LoadBalancer
service/ishita-nginx exposed
complab304pc9@dellaio304:~$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
ishita-nginx LoadBalancer 10.107.136.190 <pending> 80:30818/TCP 14s
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 17m
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 13m
complab304pc9@dellaio304:~$ minikube service ishita-nginx
| NAMESPACE | NAME | TARGET PORT | URL |
| default | ishita-nginx | 80 | http://192.168.49.2:30818 |
Opening service default/ishita-nginx in default browser...
complab304pc9@dellaio304:~$ update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[30090, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/30090/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:30090): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/30090/root
^C
complab304pc9@dellaio304:~$ minikube dasboard
Error: unknown command "dasboard" for "minikube"
Did you mean this?
dashboard
Run 'minikube --help' for usage.
complab304pc9@dellaio304:~$ minikube dashboard

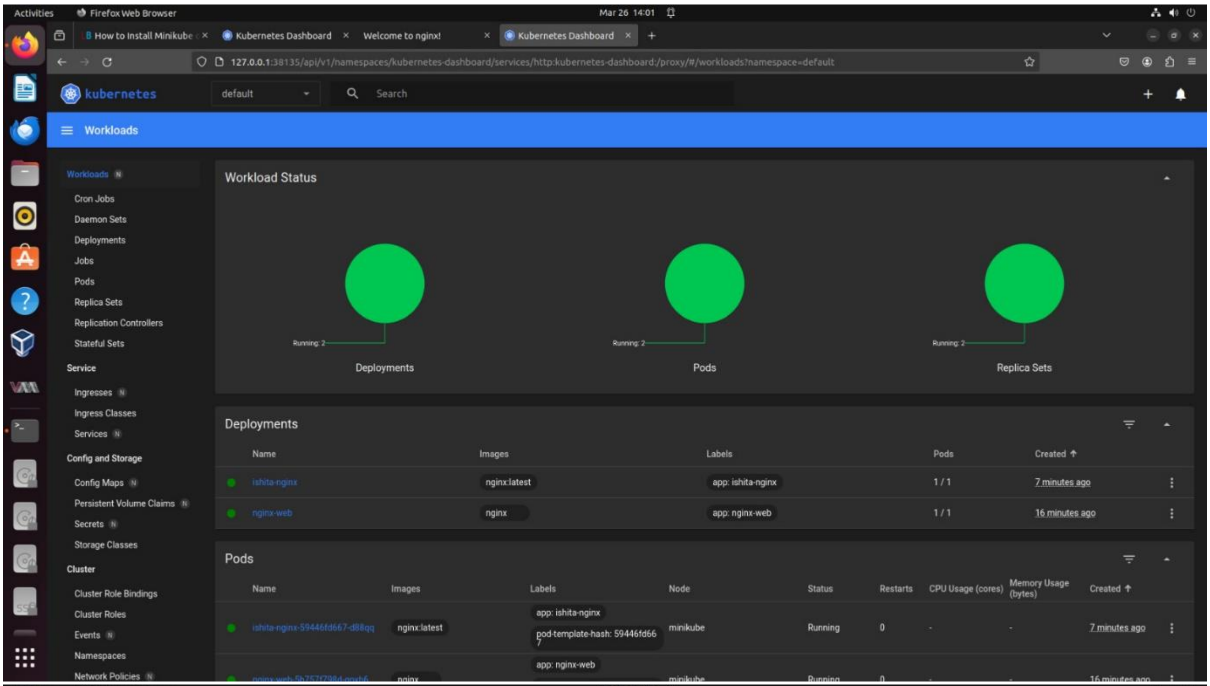

Activities
Firefox Web Browser
Mar 26 14:10
How to Install Minikube
Kubernetes Dashboard
Welcome to nginx!
Kubernetes Dashboard
Kubernetes Dashboard
Kubernetes Dashboard
127.0.0.1:41079/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/workloads?namespace=default
kubernetes
default
Search
Workloads
There is nothing to display here
You can deploy a containerized app, select other namespace or take the Dashboard Tour to learn more.
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
Cluster
Cluster Role Bindings
Cluster Roles
Events
Namespaces
Network Policies

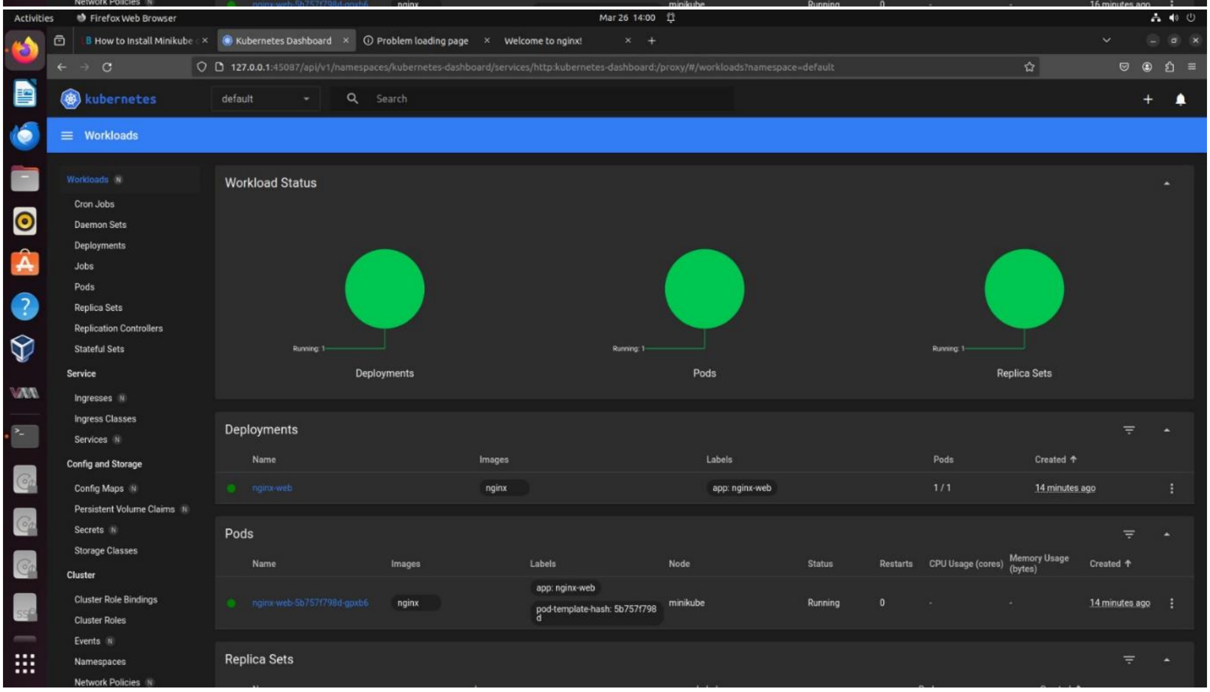


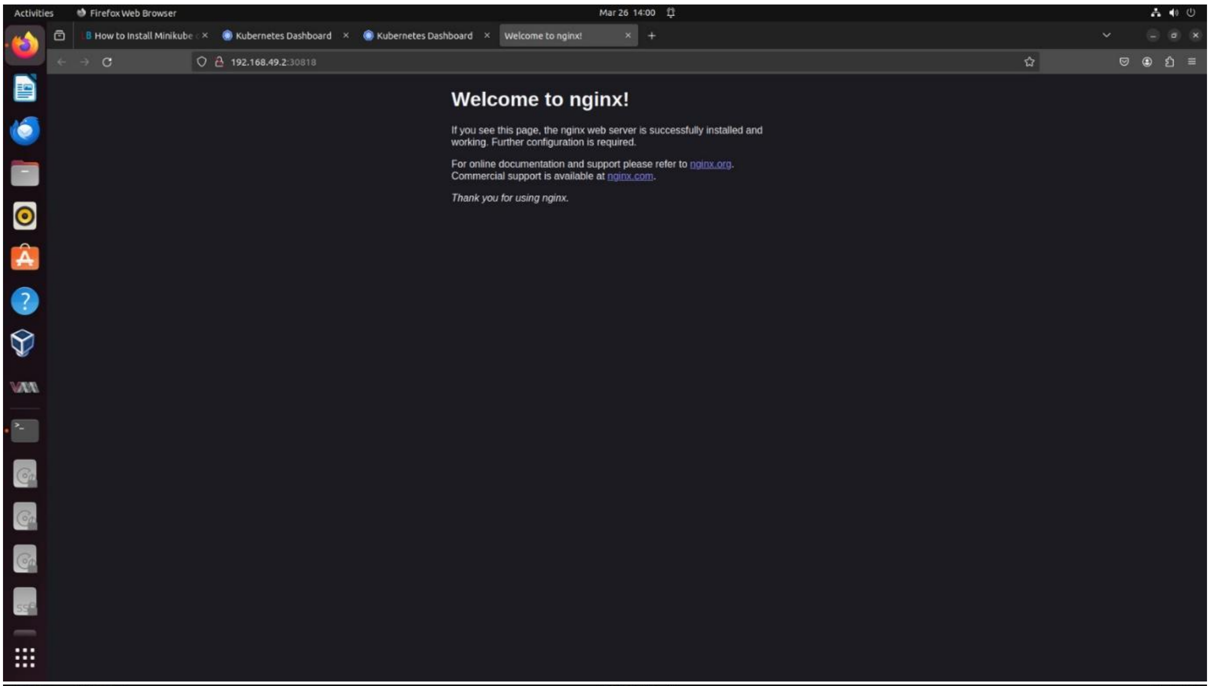
Activities
Firefox Web Browser
Mar 26 14:07
How to Install Minikube
Kubernetes Dashboard
Welcome to nginx!
Kubernetes Dashboard
Kubernetes Dashboard
127.0.0.1:33497/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/workloads?namespace=default
kubernetes
default
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
Cluster
Cluster Role Bindings
Cluster Roles
Events
Namespaces
Network Policies
Workload Status
Running: 3
Deployments
Running: 2
Pods
Running: 3
Replica Sets
Deployments
Name
Images
Labels
Pods
Created
dumb
nginx
app: dumb
0 / 0
5 minutes ago
ishita-nginx
nginx:latest
app: ishita-nginx
1 / 1
13 minutes ago
nginx-web
nginx
app: nginx-web
1 / 1
22 minutes ago
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
Memory Usage (bytes)
Created
ishita-nginx-59446fd667-d88qq
nginx:latest
app: ishita-nginx
pod-template-hash: 59446fd667
minikube
Running
0
-
-
13 minutes ago



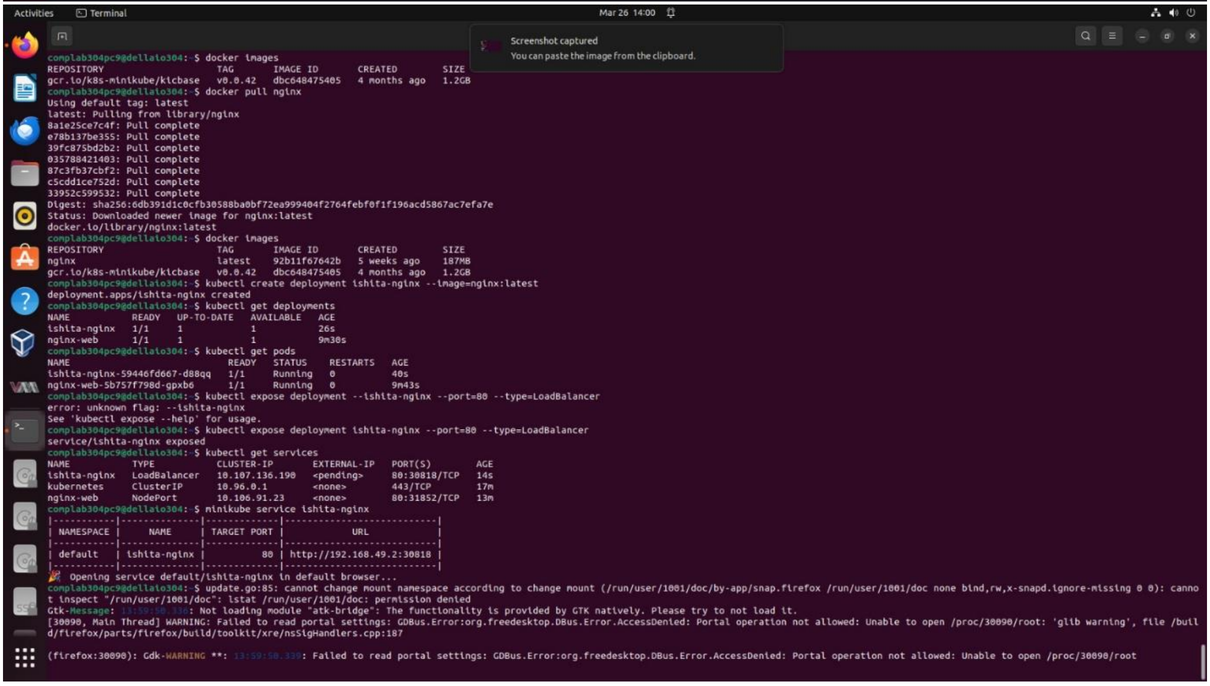
Activities
Terminal
Mar 26 14:07
complab304pc9@dellaio304: ~
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 13m
complab304pc9@dellaio304:~$ minikube service ishita-nginx
| NAMESPACE | NAME | TARGET PORT | URL |
| default | ishita-nginx | 80 | http://192.168.49.2:30818 |
Opening service default/ishita-nginx in default browser...
complab304pc9@dellaio304:~$ update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[30090, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/30090/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:30090): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/30090/root
^C
complab304pc9@dellaio304:~$ minikube dasboard
Error: unknown command "dasboard" for "minikube"
Did you mean this?
dashboard
Run 'minikube --help' for usage.
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:38135/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[31547, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/31547/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:31547): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/31547/root
^C
complab304pc9@dellaio304:~$ kubectl create deployment dumb --image=nginx
deployment.apps/dumb created
complab304pc9@dellaio304:~$ kubectl create deployment dumb --image=nginx:latest --replicas=2
error: failed to create deployment: deployments.apps "dumb" already exists
complab304pc9@dellaio304:~$ kubectl scale --replicas=0 deployment dumb
deployment.apps/dumb scaled
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:33497/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[37865, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:37865): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/37865/root


Activities
Firefox Web Browser
Mar 26 14:01
How to Install Minikube
Kubernetes Dashboard
Welcome to nginx!
Kubernetes Dashboard
127.0.0.1:38135/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/workloads?namespace=default
kubernetes
default
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
Cluster
Cluster Role Bindings
Cluster Roles
Events
Namespaces
Network Policies
Workload Status
Running: 2
Deployments
Running: 2
Pods
Running: 2
Replica Sets
Deployments
Name
Images
Labels
Pods
Created
ishita-nginx
nginx:latest
app: ishita-nginx
1 / 1
7 minutes ago
nginx-web
nginx
app: nginx-web
1 / 1
16 minutes ago
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
Memory Usage (bytes)
Created
ishita-nginx-59446fd667-d88qq
nginx:latest
app: ishita-nginx
pod-template-hash: 59446fd667
minikube
Running
0
7 minutes ago
app: nginx-web

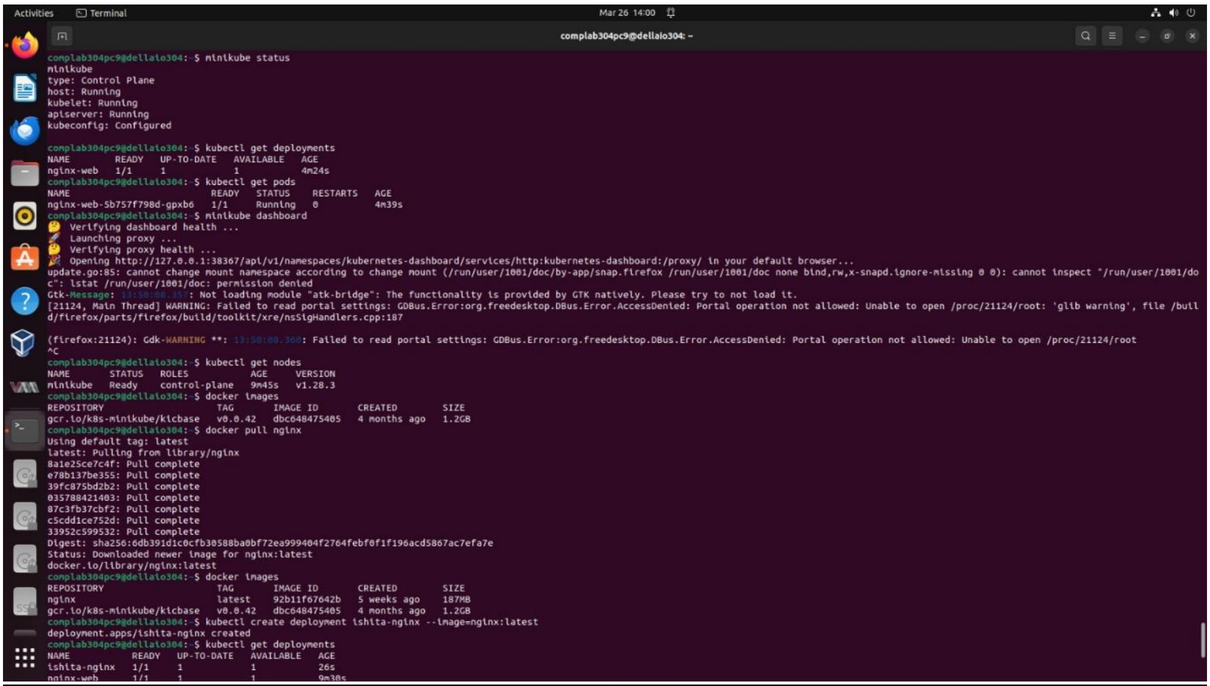

Activities
Firefox Web Browser
Mar 26 14:00
How to Install Minikube
Kubernetes Dashboard
Problem loading page
Welcome to nginx!
127.0.0.1:45087/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/workloads?namespace=default
kubernetes
default
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
Cluster
Cluster Role Bindings
Cluster Roles
Events
Namespaces
Network Policies
Workload Status
Running: 1
Deployments
Running: 1
Pods
Running: 1
Replica Sets
Deployments
Name
Images
Labels
Pods
Created
nginx-web
nginx
app: nginx-web
1 / 1
14 minutes ago
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
Memory Usage (bytes)
Created
nginx-web-5b757f798d-gpxb6
nginx
app: nginx-web
pod-template-hash: 5b757f798d
minikube
Running
0
14 minutes ago
Replica Sets



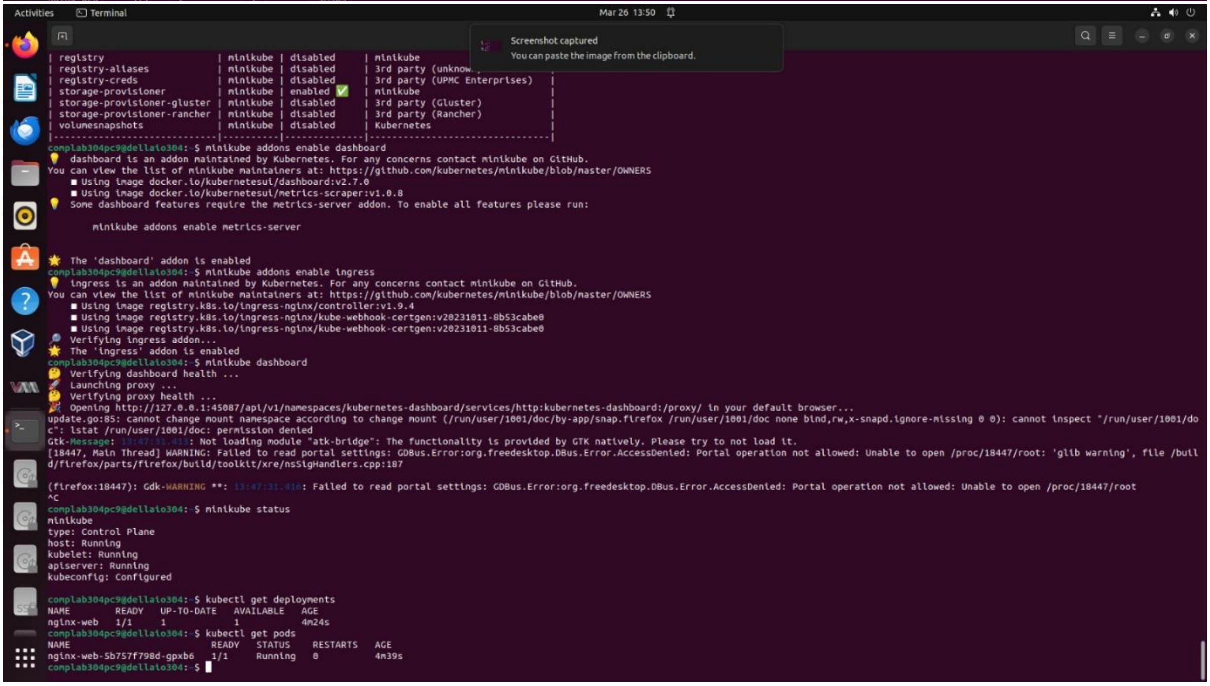
Activities
Firefox Web Browser
Mar 26 14:00
How to Install Minikube
Kubernetes Dashboard
Kubernetes Dashboard
Welcome to nginx!
192.168.49.2:30818
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.



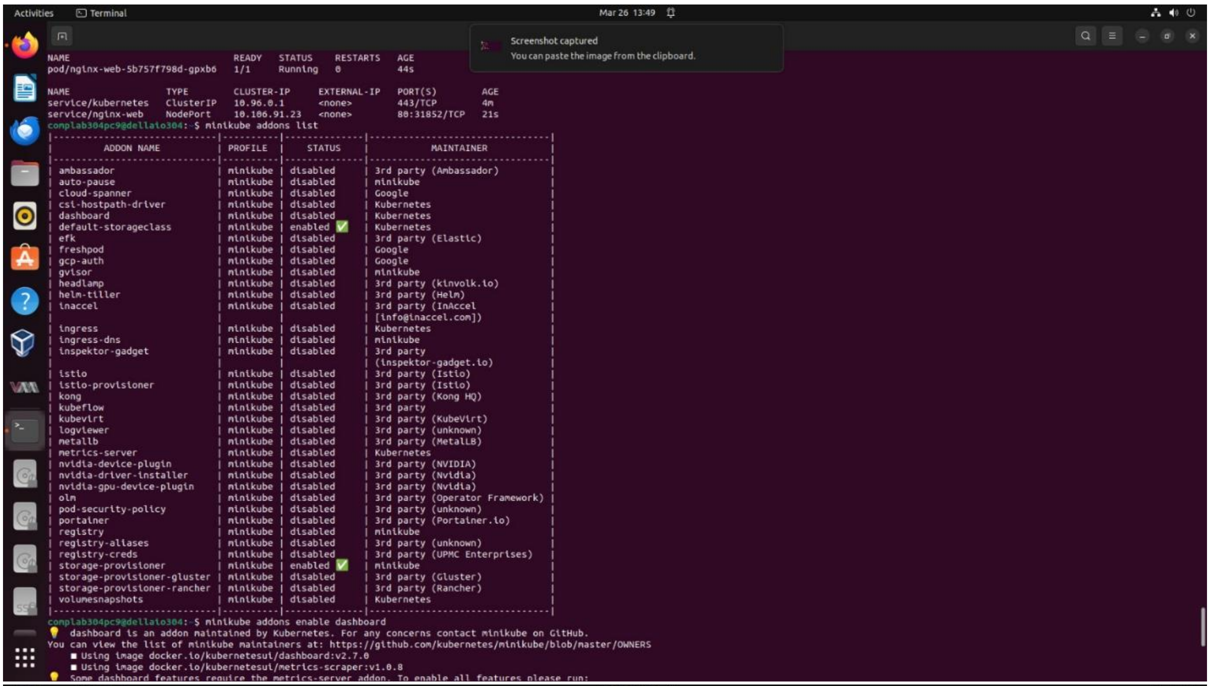
Activities
Terminal
Mar 26 14:00
Screenshot captured
You can paste the image from the clipboard.
complab304pc9@dellaio304:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
gcr.io/k8s-minikube/kicbase v0.0.42 dbc648475405 4 months ago 1.2GB
complab304pc9@dellaio304:~$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
8a1e25ce7c4f: Pull complete
e78b137be355: Pull complete
39fc875bd2b2: Pull complete
035788421403: Pull complete
87c3fb37cbf2: Pull complete
c5cdd1ce752d: Pull complete
33952c599532: Pull complete
Digest: sha256:6db391d1c0cfb30588ba0bf72ea999404f2764febf0f1f196acd5867ac7efa7e
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
complab304pc9@dellaio304:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 92b11f67642b 5 weeks ago 187MB
gcr.io/k8s-minikube/kicbase v0.0.42 dbc648475405 4 months ago 1.2GB
complab304pc9@dellaio304:~$ kubectl create deployment ishita-nginx --image=nginx:latest
deployment.apps/ishita-nginx created
complab304pc9@dellaio304:~$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
ishita-nginx 1/1 1 1 26s
nginx-web 1/1 1 1 9m30s
complab304pc9@dellaio304:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
ishita-nginx-59446fd667-d88qq 1/1 Running 0 40s
nginx-web-5b757f798d-gpxb6 1/1 Running 0 9m43s
complab304pc9@dellaio304:~$ kubectl expose deployment --ishita-nginx --port=80 --type=LoadBalancer
error: unknown flag: --ishita-nginx
See 'kubectl expose --help' for usage.
complab304pc9@dellaio304:~$ kubectl expose deployment ishita-nginx --port=80 --type=LoadBalancer
service/ishita-nginx exposed
complab304pc9@dellaio304:~$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
ishita-nginx LoadBalancer 10.107.136.190 <pending> 80:30818/TCP 14s
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 17m
nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 13m
complab304pc9@dellaio304:~$ minikube service ishita-nginx
| NAMESPACE | NAME | TARGET PORT | URL |
| default | ishita-nginx | 80 | http://192.168.49.2:30818 |
Opening service default/ishita-nginx in default browser...
complab304pc9@dellaio304:~$ update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: 13:59:50.336: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[30090, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/30090/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:30090): Gdk-WARNING **: 13:59:50.339: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/30090/root

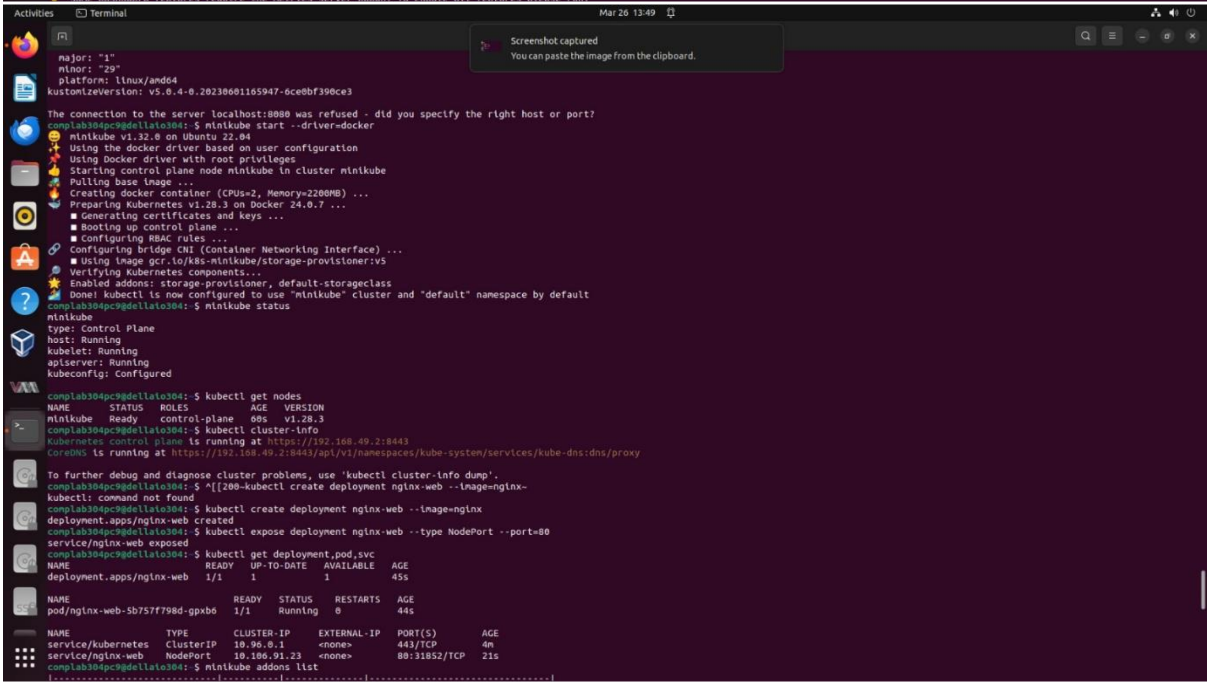


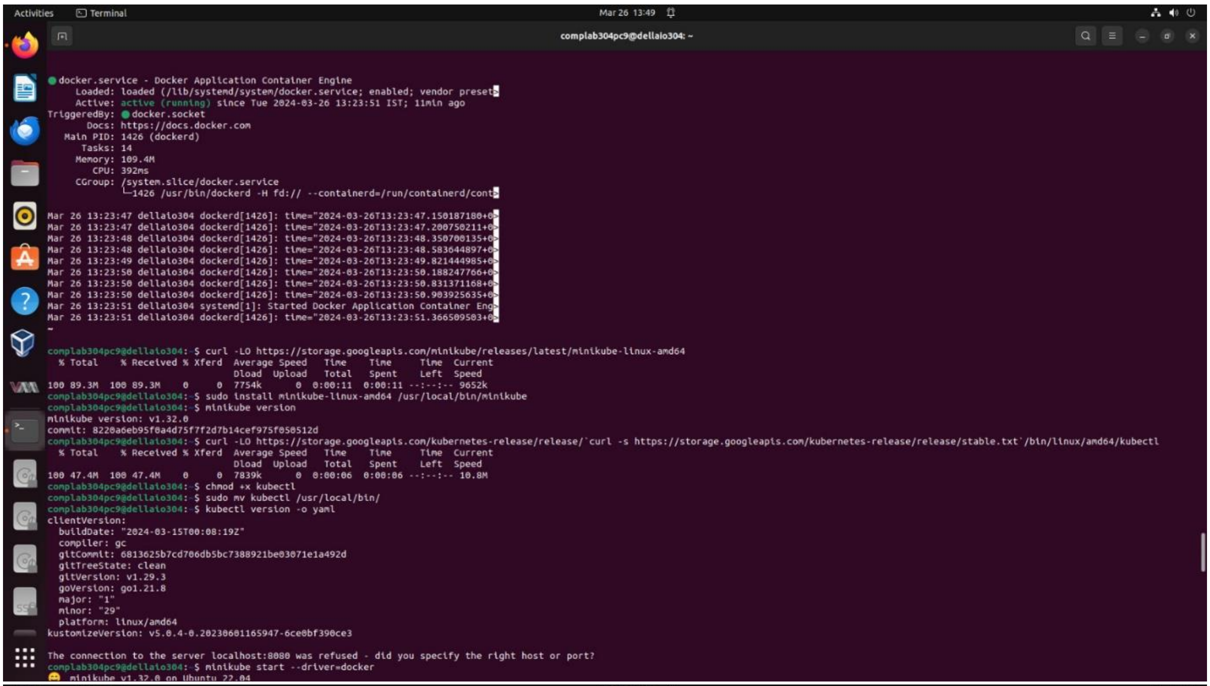
Activities
Terminal
Mar 26 14:00
complab304pc9@dellaio304: ~
complab304pc9@dellaio304:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
complab304pc9@dellaio304:~$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
nginx-web 1/1 1 1 4m24s
complab304pc9@dellaio304:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-web-5b757f798d-gpxb6 1/1 Running 0 4m39s
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:38367/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[21124, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/21124/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:21124): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/21124/root
^C
complab304pc9@dellaio304:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
minikube Ready control-plane 9m45s v1.28.3
complab304pc9@dellaio304:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
gcr.io/k8s-minikube/kicbase v0.0.42 dbc648475405 4 months ago 1.2GB
complab304pc9@dellaio304:~$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
8a1e25ce7c4f: Pull complete
e78b137be355: Pull complete
39fc875bd2b2: Pull complete
035788421403: Pull complete
87c3fb37cbf2: Pull complete
c5cdd1ce752d: Pull complete
33952c599532: Pull complete
Digest: sha256:6db391d1c0cfb30588ba0bf72ea999404f2764febf0f1f196acd5867ac7efa7e
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
complab304pc9@dellaio304:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 92b11f67642b 5 weeks ago 187MB
gcr.io/k8s-minikube/kicbase v0.0.42 dbc648475405 4 months ago 1.2GB
complab304pc9@dellaio304:~$ kubectl create deployment ishita-nginx --image=nginx:latest
deployment.apps/ishita-nginx created
complab304pc9@dellaio304:~$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
ishita-nginx 1/1 1 1 26s



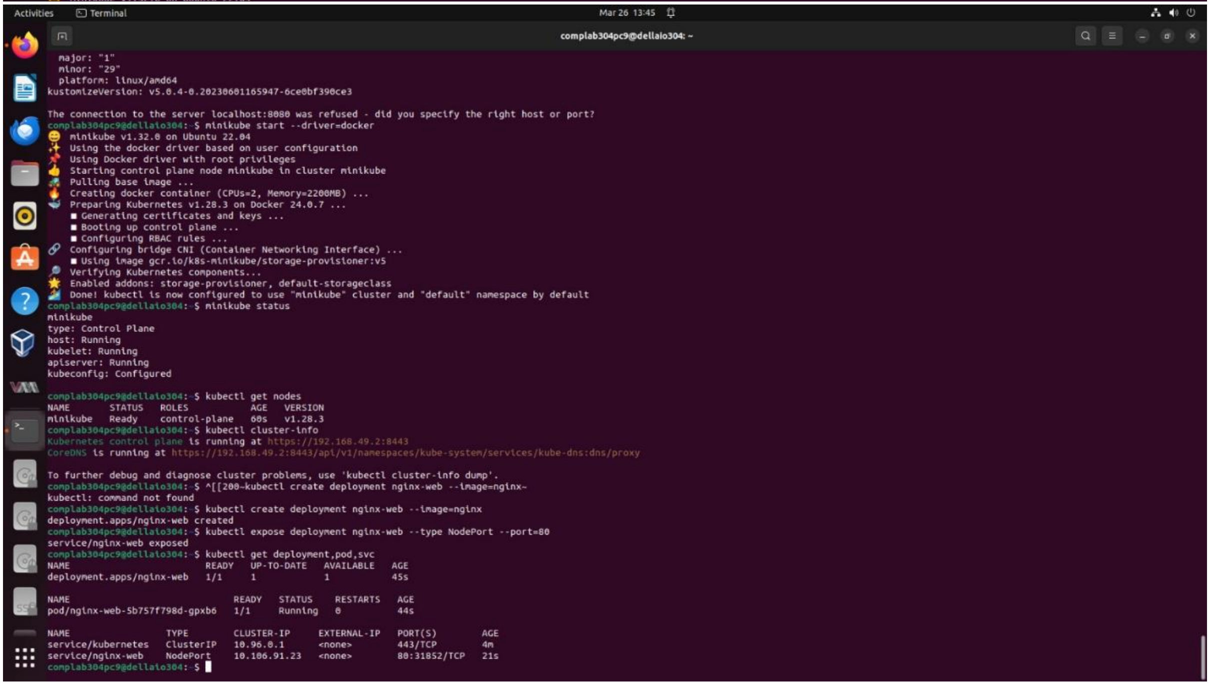
Activities
Terminal
Mar 26 13:50
Screenshot captured
You can paste the image from the clipboard.
| registry | minikube | disabled | minikube
| registry-aliases | minikube | disabled | 3rd party (unknow
registry-creds	minikube	disabled	3rd party (UPMC Enterprises)
storage-provisioner	minikube	enabled ✅	minikube
storage-provisioner-gluster	minikube	disabled	3rd party (Gluster)
storage-provisioner-rancher	minikube	disabled	3rd party (Rancher)
volumesnapshots	minikube	disabled	Kubernetes
complab304pc9@dellaio304:~$ minikube addons enable dashboard
dashboard is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.
You can view the list of minikube maintainers at: https://github.com/kubernetes/minikube/blob/master/OWNERS
■ Using image docker.io/kubernetesui/dashboard:v2.7.0
■ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
Some dashboard features require the metrics-server addon. To enable all features please run:
minikube addons enable metrics-server
The 'dashboard' addon is enabled
complab304pc9@dellaio304:~$ minikube addons enable ingress
ingress is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.
You can view the list of minikube maintainers at: https://github.com/kubernetes/minikube/blob/master/OWNERS
■ Using image registry.k8s.io/ingress-nginx/controller:v1.9.4
■ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v20231011-8b53cabe0
■ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v20231011-8b53cabe0
Verifying ingress addon...
The 'ingress' addon is enabled
complab304pc9@dellaio304:~$ minikube dashboard
Verifying dashboard health ...
Launching proxy ...
Verifying proxy health ...
Opening http://127.0.0.1:45087/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
update.go:85: cannot change mount namespace according to change mount (/run/user/1001/doc/by-app/snap.firefox /run/user/1001/doc none bind,rw,x-snapd.ignore-missing 0 0): cannot inspect "/run/user/1001/doc": lstat /run/user/1001/doc: permission denied
Gtk-Message: : Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.
[18447, Main Thread] WARNING: Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/18447/root: 'glib warning', file /build/firefox/parts/firefox/build/toolkit/xre/nsSigHandlers.cpp:187
(firefox:18447): Gdk-WARNING **: : Failed to read portal settings: GDBus.Error:org.freedesktop.DBus.Error.AccessDenied: Portal operation not allowed: Unable to open /proc/18447/root
^C
complab304pc9@dellaio304:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
complab304pc9@dellaio304:~$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
nginx-web 1/1 1 1 4m24s
complab304pc9@dellaio304:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-web-5b757f798d-gpxb6 1/1 Running 0 4m39s
complab304pc9@dellaio304:~$


Activities
Terminal
Mar 26 13:49
Screenshot captured
You can paste the image from the clipboard.
NAME READY STATUS RESTARTS AGE
pod/nginx-web-5b757f798d-gpxb6 1/1 Running 0 44s
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
service/kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 4m
service/nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 21s
complab304pc9@dellaio304:~$ minikube addons list
ADDON NAME	PROFILE	STATUS	MAINTAINER
ambassador	minikube	disabled	3rd party (Ambassador)
auto-pause	minikube	disabled	minikube
cloud-spanner	minikube	disabled	Google
csi-hostpath-driver	minikube	disabled	Kubernetes
dashboard	minikube	disabled	Kubernetes
default-storageclass	minikube	enabled ✅	Kubernetes
efk	minikube	disabled	3rd party (Elastic)
freshpod	minikube	disabled	Google
gcp-auth	minikube	disabled	Google
gvisor	minikube	disabled	minikube
headlamp	minikube	disabled	3rd party (kinvolk.io)
helm-tiller	minikube	disabled	3rd party (Helm)
inaccel	minikube	disabled	3rd party (InAccel [info@inaccel.com])
ingress	minikube	disabled	Kubernetes
ingress-dns	minikube	disabled	minikube
inspektor-gadget	minikube	disabled	3rd party (inspektor-gadget.io)
istio	minikube	disabled	3rd party (Istio)
istio-provisioner	minikube	disabled	3rd party (Istio)
kong	minikube	disabled	3rd party (Kong HQ)
kubeflow	minikube	disabled	3rd party
kubevirt	minikube	disabled	3rd party (KubeVirt)
logviewer	minikube	disabled	3rd party (unknown)
metallb	minikube	disabled	3rd party (MetalLB)
metrics-server	minikube	disabled	Kubernetes
nvidia-device-plugin	minikube	disabled	3rd party (NVIDIA)
nvidia-driver-installer	minikube	disabled	3rd party (Nvidia)
nvidia-gpu-device-plugin	minikube	disabled	3rd party (Nvidia)
olm	minikube	disabled	3rd party (Operator Framework)
pod-security-policy	minikube	disabled	3rd party (unknown)
portainer	minikube	disabled	3rd party (Portainer.io)
registry	minikube	disabled	minikube
registry-aliases	minikube	disabled	3rd party (unknown)
registry-creds	minikube	disabled	3rd party (UPMC Enterprises)
storage-provisioner	minikube	enabled ✅	minikube
storage-provisioner-gluster	minikube	disabled	3rd party (Gluster)
storage-provisioner-rancher	minikube	disabled	3rd party (Rancher)
volumesnapshots	minikube	disabled	Kubernetes
complab304pc9@dellaio304:~$ minikube addons enable dashboard
💡 dashboard is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.
You can view the list of minikube maintainers at: https://github.com/kubernetes/minikube/blob/master/OWNERS
▪ Using image docker.io/kubernetesui/dashboard:v2.7.0
▪ Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
💡 Some dashboard features require the metrics-server addon. To enable all features please run:

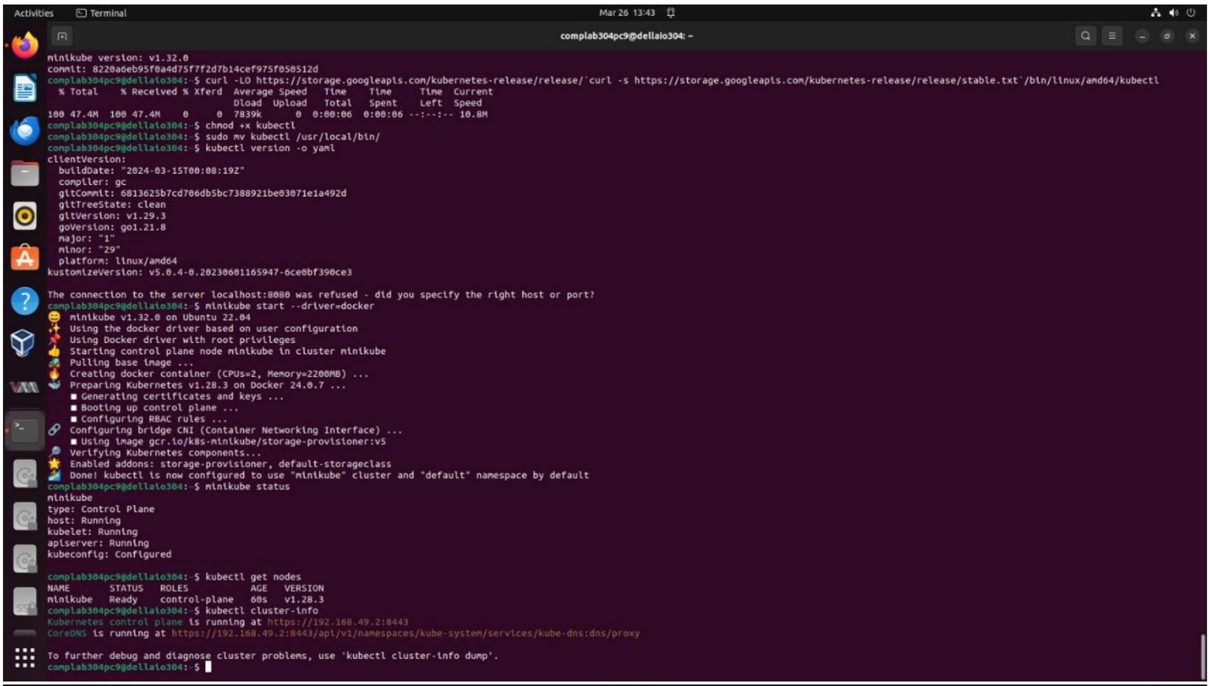

Activities
Terminal
Mar 26 13:49
Screenshot captured
You can paste the image from the clipboard.
major: "1"
minor: "29"
platform: linux/amd64
kustomizeVersion: v5.0.4-0.20230601165947-6ce0bf390ce3
The connection to the server localhost:8080 was refused - did you specify the right host or port?
complab304pc9@dellaio304:~$ minikube start --driver=docker
😄 minikube v1.32.0 on Ubuntu 22.04
✨ Using the docker driver based on user configuration
📌 Using Docker driver with root privileges
👍 Starting control plane node minikube in cluster minikube
🚜 Pulling base image ...
🔥 Creating docker container (CPUs=2, Memory=2200MB) ...
🐳 Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
▪ Generating certificates and keys ...
▪ Booting up control plane ...
▪ Configuring RBAC rules ...
🔗 Configuring bridge CNI (Container Networking Interface) ...
▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🔎 Verifying Kubernetes components...
🌟 Enabled addons: storage-provisioner, default-storageclass
🏄 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
complab304pc9@dellaio304:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
complab304pc9@dellaio304:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
minikube Ready control-plane 60s v1.28.3
complab304pc9@dellaio304:~$ kubectl cluster-info
Kubernetes control plane is running at https://192.168.49.2:8443
CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
complab304pc9@dellaio304:~$ ^[[200~kubectl create deployment nginx-web --image=nginx~
kubectl: command not found
complab304pc9@dellaio304:~$ kubectl create deployment nginx-web --image=nginx
deployment.apps/nginx-web created
complab304pc9@dellaio304:~$ kubectl expose deployment nginx-web --type NodePort --port=80
service/nginx-web exposed
complab304pc9@dellaio304:~$ kubectl get deployment,pod,svc
NAME READY UP-TO-DATE AVAILABLE AGE
deployment.apps/nginx-web 1/1 1 1 45s
NAME READY STATUS RESTARTS AGE
pod/nginx-web-5b757f798d-gpxb6 1/1 Running 0 44s
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
service/kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 4m
service/nginx-web NodePort 10.106.91.23 <none> 80:31852/TCP 21s
complab304pc9@dellaio304:~$ minikube addons list

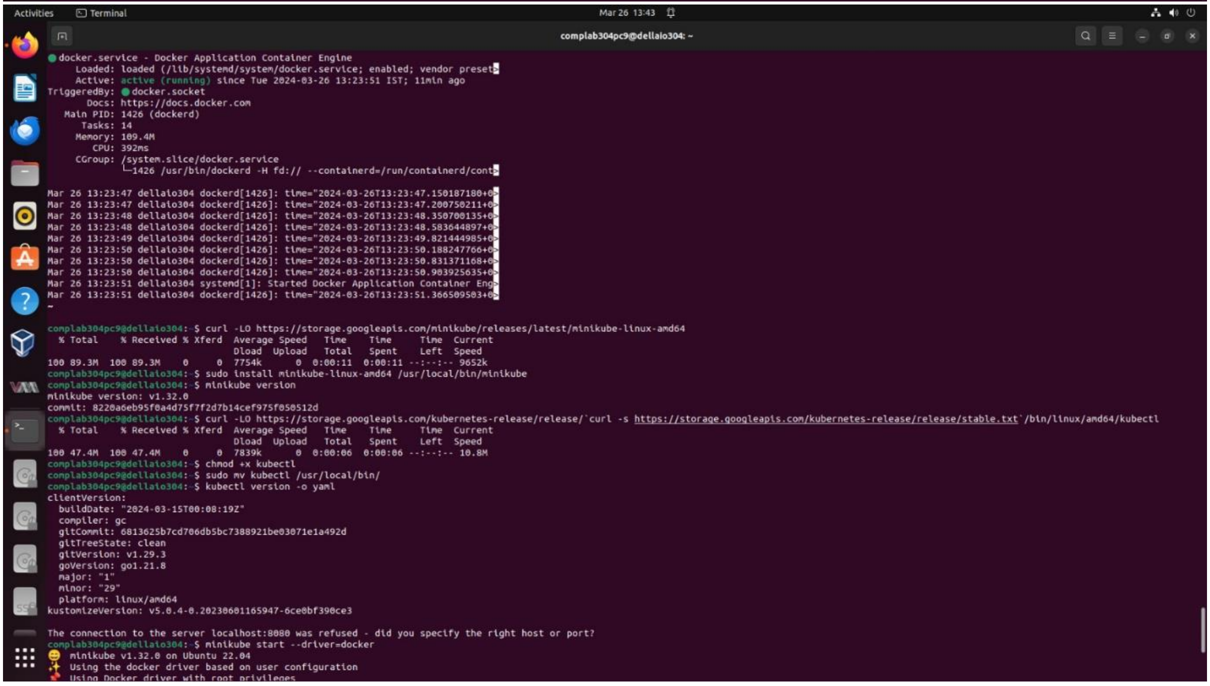


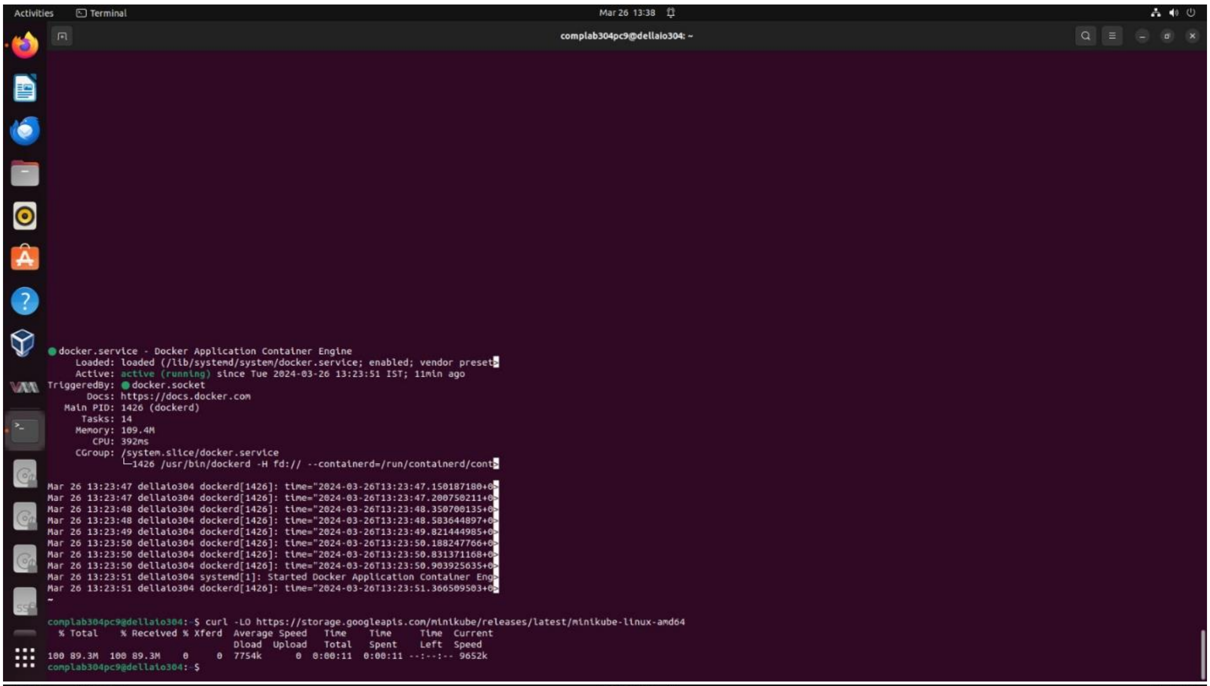
```
Activities   Terminal                    Mar 26 13:49
complab304pc9@dellaio304: ~

● docker.service - Docker Application Container Engine
     Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset>
     Active: active (running) since Tue 2024-03-26 13:23:51 IST; 11min ago
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
   Main PID: 1426 (dockerd)
      Tasks: 14
     Memory: 109.4M
        CPU: 392ms
     CGroup: /system.slice/docker.service
             └─1426 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>

Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+0>
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+0>
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+0>
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.583644897+0>
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+0>
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Eng>
Mar 26 13:23:51 dellaio304 dockerd[1426]: time="2024-03-26T13:23:51.366509503+0>
~

complab304pc9@dellaio304:~$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 89.3M  100 89.3M    0     0  7754k      0  0:00:11  0:00:11 --:--:-- 9652k
complab304pc9@dellaio304:~$ sudo install minikube-linux-amd64 /usr/local/bin/minikube
complab304pc9@dellaio304:~$ minikube version
minikube version: v1.32.0
commit: 8220a6eb95f0a4d75f7f2d7b14cef975f050512d
complab304pc9@dellaio304:~$ curl -LO https://storage.googleapis.com/kubernetes-release/release/`curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt`/bin/linux/amd64/kubectl
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 47.4M  100 47.4M    0     0  7839k      0  0:00:06  0:00:06 --:--:-- 10.8M
complab304pc9@dellaio304:~$ chmod +x kubectl
complab304pc9@dellaio304:~$ sudo mv kubectl /usr/local/bin/
complab304pc9@dellaio304:~$ kubectl version -o yaml
clientVersion:
  buildDate: "2024-03-15T00:08:19Z"
  compiler: gc
  gitCommit: 6813625b7cd706db5bc7388921be03071e1a492d
  gitTreeState: clean
  gitVersion: v1.29.3
  goVersion: go1.21.8
  major: "1"
  minor: "29"
  platform: linux/amd64
kustomizeVersion: v5.0.4-0.20230601165947-6ce0bf390ce3

The connection to the server localhost:8080 was refused - did you specify the right host or port?
complab304pc9@dellaio304:~$ minikube start --driver=docker
   minikube v1.32.0 on Ubuntu 22.04
```

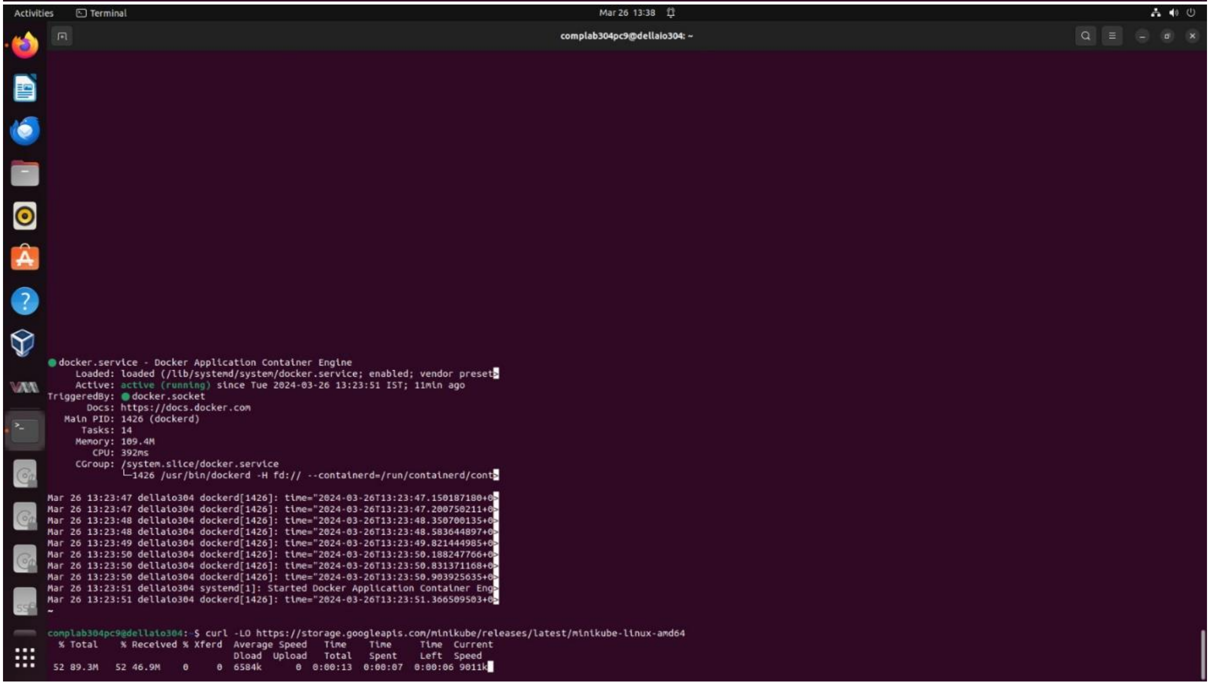


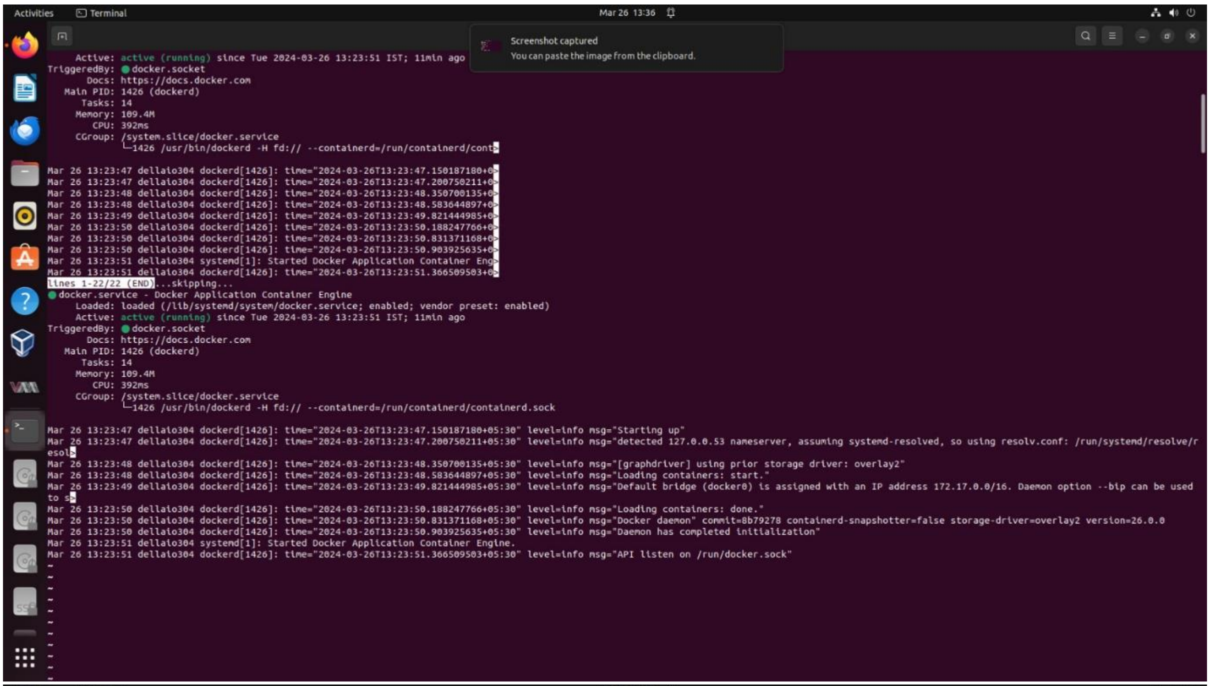
```
Activities   Terminal                    Mar 26 13:45
complab304pc9@dellaio304: ~
  major: "1"
  minor: "29"
  platform: linux/amd64
kustomizeVersion: v5.0.4-0.20230601165947-6ce0bf390ce3

The connection to the server localhost:8080 was refused - did you specify the right host or port?
complab304pc9@dellaio304:~$ minikube start --driver=docker
   minikube v1.32.0 on Ubuntu 22.04
   Using the docker driver based on user configuration
   Using Docker driver with root privileges
   Starting control plane node minikube in cluster minikube
   Pulling base image ...
   Creating docker container (CPUs=2, Memory=2200MB) ...
   Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
    ■ Generating certificates and keys ...
    ■ Booting up control plane ...
    ■ Configuring RBAC rules ...
   Configuring bridge CNI (Container Networking Interface) ...
    ■ Using image gcr.io/k8s-minikube/storage-provisioner:v5
   Verifying Kubernetes components...
   Enabled addons: storage-provisioner, default-storageclass
   Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
complab304pc9@dellaio304:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

complab304pc9@dellaio304:~$ kubectl get nodes
NAME       STATUS   ROLES           AGE   VERSION
minikube   Ready    control-plane   60s   v1.28.3
complab304pc9@dellaio304:~$ kubectl cluster-info
Kubernetes control plane is running at https://192.168.49.2:8443
CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
complab304pc9@dellaio304:~$ ^[[200~kubectl create deployment nginx-web --image=nginx~
kubectl: command not found
complab304pc9@dellaio304:~$ kubectl create deployment nginx-web --image=nginx
deployment.apps/nginx-web created
complab304pc9@dellaio304:~$ kubectl expose deployment nginx-web --type NodePort --port=80
service/nginx-web exposed
complab304pc9@dellaio304:~$ kubectl get deployment,pod,svc
NAME                        READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/nginx-web   1/1     1            1           45s

NAME                             READY   STATUS    RESTARTS   AGE
pod/nginx-web-5b757f798d-gpxb6   1/1     Running   0          44s

NAME                 TYPE        CLUSTER-IP     EXTERNAL-IP   PORT(S)        AGE
service/kubernetes   ClusterIP   10.96.0.1      <none>        443/TCP        4m
service/nginx-web    NodePort    10.106.91.23   <none>        80:31852/TCP   21s
complab304pc9@dellaio304:~$
```

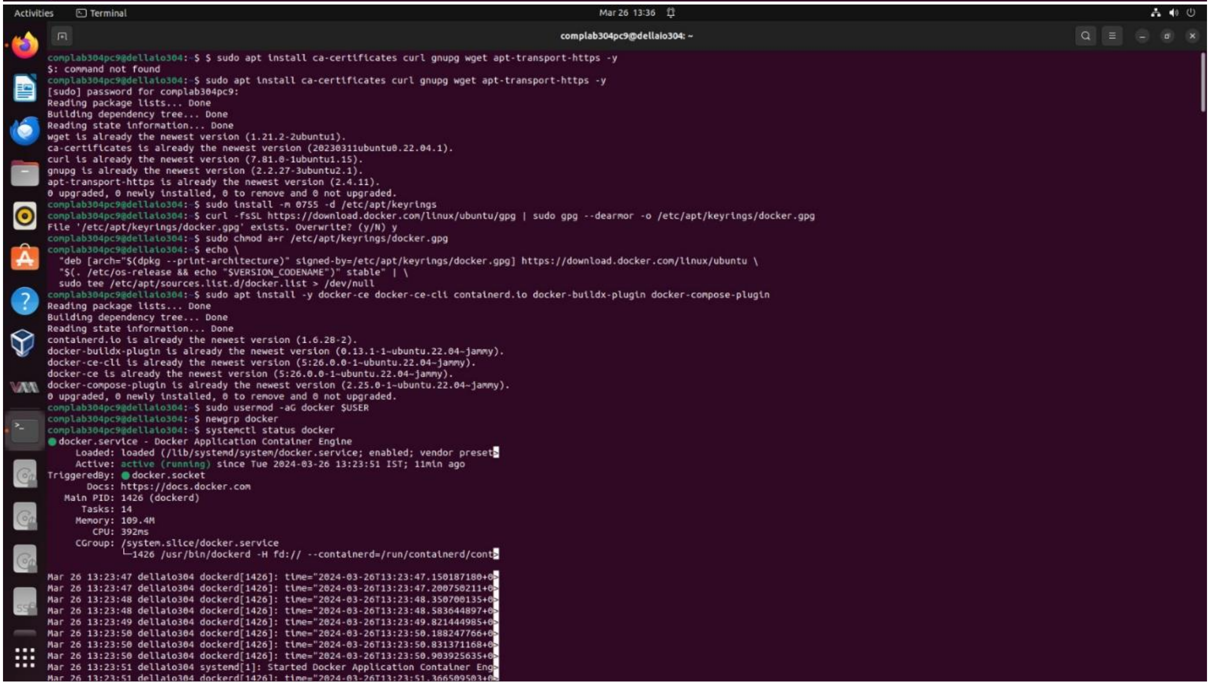

Activities
Terminal
Mar 26 13:43
complab304pc9@dellaio304: ~
minikube version: v1.32.0
commit: 8220a6eb95f0a4d75f7f2d7b14cef975f050512d
complab304pc9@dellaio304:~$ curl -LO https://storage.googleapis.com/kubernetes-release/release/`curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt`/bin/linux/amd64/kubectl
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 47.4M 100 47.4M 0 0 7839k 0 0:00:06 0:00:06 --:--:-- 10.8M
complab304pc9@dellaio304:~$ chmod +x kubectl
complab304pc9@dellaio304:~$ sudo mv kubectl /usr/local/bin/
complab304pc9@dellaio304:~$ kubectl version -o yaml
clientVersion:
buildDate: "2024-03-15T00:08:19Z"
compiler: gc
gitCommit: 6813625b7cd706db5bc7388921be03071e1a492d
gitTreeState: clean
gitVersion: v1.29.3
goVersion: go1.21.8
major: "1"
minor: "29"
platform: linux/amd64
kustomizeVersion: v5.0.4-0.20230601165947-6ce0bf390ce3
The connection to the server localhost:8080 was refused - did you specify the right host or port?
complab304pc9@dellaio304:~$ minikube start --driver=docker
minikube v1.32.0 on Ubuntu 22.04
Using the docker driver based on user configuration
Using Docker driver with root privileges
Starting control plane node minikube in cluster minikube
Pulling base image ...
Creating docker container (CPUs=2, Memory=2200MB) ...
Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
▪ Generating certificates and keys ...
▪ Booting up control plane ...
▪ Configuring RBAC rules ...
Configuring bridge CNI (Container Networking Interface) ...
▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
Verifying Kubernetes components...
Enabled addons: storage-provisioner, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
complab304pc9@dellaio304:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
complab304pc9@dellaio304:~$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
minikube Ready control-plane 60s v1.28.3
complab304pc9@dellaio304:~$ kubectl cluster-info
Kubernetes control plane is running at https://192.168.49.2:8443
CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
complab304pc9@dellaio304:~$


Activities
Terminal
Mar 26 13:43
complab304pc9@dellaio304: ~
docker.service - Docker Application Container Engine
Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset
Active: active (running) since Tue 2024-03-26 13:23:51 IST; 11min ago
TriggeredBy: docker.socket
Docs: https://docs.docker.com
Main PID: 1426 (dockerd)
Tasks: 14
Memory: 109.4M
CPU: 392ms
CGroup: /system.slice/docker.service
└─1426 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+0
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+0
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+0
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.503644897+0
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+0
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Eng
Mar 26 13:23:51 dellaio304 dockerd[1426]: time="2024-03-26T13:23:51.366509503+0
complab304pc9@dellaio304:~$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 89.3M 100 89.3M 0 0 7754k 0 0:00:11 0:00:11 --:--:-- 9652k
complab304pc9@dellaio304:~$ sudo install minikube-linux-amd64 /usr/local/bin/minikube
complab304pc9@dellaio304:~$ minikube version
minikube version: v1.32.0
commit: 8220a6eb95f0a4d75f7f2d7b14cef975f050512d
complab304pc9@dellaio304:~$ curl -LO https://storage.googleapis.com/kubernetes-release/release/`curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt`/bin/linux/amd64/kubectl
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 47.4M 100 47.4M 0 0 7839k 0 0:00:06 0:00:06 --:--:-- 10.8M
complab304pc9@dellaio304:~$ chmod +x kubectl
complab304pc9@dellaio304:~$ sudo mv kubectl /usr/local/bin/
complab304pc9@dellaio304:~$ kubectl version -o yaml
clientVersion:
buildDate: "2024-03-15T00:08:19Z"
compiler: gc
gitCommit: 6813625b7cd706db5bc7388921be03071e1a492d
gitTreeState: clean
gitVersion: v1.29.3
goVersion: go1.21.8
major: "1"
minor: "29"
platform: linux/amd64
kustomizeVersion: v5.0.4-0.20230601165947-6ce0bf390ce3
The connection to the server localhost:8080 was refused - did you specify the right host or port?
complab304pc9@dellaio304:~$ minikube start --driver=docker
minikube v1.32.0 on Ubuntu 22.04
Using the docker driver based on user configuration


Activities
Terminal
Mar 26 13:38
complab304pc9@dellaio304: ~
docker.service - Docker Application Container Engine
Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset>
Active: active (running) since Tue 2024-03-26 13:23:51 IST; 11min ago
TriggeredBy: docker.socket
Docs: https://docs.docker.com
Main PID: 1426 (dockerd)
Tasks: 14
Memory: 109.4M
CPU: 392ms
CGroup: /system.slice/docker.service
└─1426 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+0>
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+0>
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+0>
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.583644897+0>
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+0>
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Eng>
Mar 26 13:23:51 dellaio304 dockerd[1426]: time="2024-03-26T13:23:51.366509503+0>
~
complab304pc9@dellaio304:~$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 89.3M 100 89.3M 0 0 7754k 0 0:00:11 0:00:11 --:--:-- 9652k
complab304pc9@dellaio304:~$


Activities
Terminal
Mar 26 13:38
complab304pc9@dellaio304: ~
docker.service - Docker Application Container Engine
Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset>
Active: active (running) since Tue 2024-03-26 13:23:51 IST; 11min ago
TriggeredBy: docker.socket
Docs: https://docs.docker.com
Main PID: 1426 (dockerd)
Tasks: 14
Memory: 109.4M
CPU: 392ms
CGroup: /system.slice/docker.service
└─1426 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+0>
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+0>
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+0>
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.583644897+0>
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+0>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+0>
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Eng>
Mar 26 13:23:51 dellaio304 dockerd[1426]: time="2024-03-26T13:23:51.366509503+0>
~
complab304pc9@dellaio304:~$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
52 89.3M 52 46.9M 0 0 6584k 0 0:00:13 0:00:07 0:00:06 9011k


Activities
Terminal
Mar 26 13:36
Screenshot captured
You can paste the image from the clipboard.
Active: active (running) since Tue 2024-03-26 13:23:51 IST; 11min ago
TriggeredBy: docker.socket
Docs: https://docs.docker.com
Main PID: 1426 (dockerd)
Tasks: 14
Memory: 109.4M
CPU: 392ms
CGroup: /system.slice/docker.service
└─1426 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+0
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+0
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+0
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.583644897+0
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+0
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Eng
Mar 26 13:23:51 dellaio304 dockerd[1426]: time="2024-03-26T13:23:51.366509503+0
lines 1-22/22 (END)...skipping...
docker.service - Docker Application Container Engine
Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
Active: active (running) since Tue 2024-03-26 13:23:51 IST; 11min ago
TriggeredBy: docker.socket
Docs: https://docs.docker.com
Main PID: 1426 (dockerd)
Tasks: 14
Memory: 109.4M
CPU: 392ms
CGroup: /system.slice/docker.service
└─1426 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+05:30" level=info msg="Starting up"
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+05:30" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved, so using resolv.conf: /run/systemd/resolve/resol
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+05:30" level=info msg="[graphdriver] using prior storage driver: overlay2"
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.583644897+05:30" level=info msg="Loading containers: start."
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+05:30" level=info msg="Default bridge (docker0) is assigned with an IP address 172.17.0.0/16. Daemon option --bip can be used to s
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+05:30" level=info msg="Loading containers: done."
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+05:30" level=info msg="Docker daemon" commit=8b79278 containerd-snapshotter=false storage-driver=overlay2 version=26.0.0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+05:30" level=info msg="Daemon has completed initialization"
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Engine.
Mar 26 13:23:51 dellaio304 dockerd[1426]: time="2024-03-26T13:23:51.366509503+05:30" level=info msg="API listen on /run/docker.sock"


Activities
Terminal
Mar 26 13:36
complab304pc9@dellaio304: ~
complab304pc9@dellaio304:~$ $ sudo apt install ca-certificates curl gnupg wget apt-transport-https -y
$: command not found
complab304pc9@dellaio304:~$ sudo apt install ca-certificates curl gnupg wget apt-transport-https -y
[sudo] password for complab304pc9:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
wget is already the newest version (1.21.2-2ubuntu1).
ca-certificates is already the newest version (20230311ubuntu0.22.04.1).
curl is already the newest version (7.81.0-1ubuntu1.15).
gnupg is already the newest version (2.2.27-3ubuntu2.1).
apt-transport-https is already the newest version (2.4.11).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
complab304pc9@dellaio304:~$ sudo install -m 0755 -d /etc/apt/keyrings
complab304pc9@dellaio304:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
File '/etc/apt/keyrings/docker.gpg' exists. Overwrite? (y/N) y
complab304pc9@dellaio304:~$ sudo chmod a+r /etc/apt/keyrings/docker.gpg
complab304pc9@dellaio304:~$ echo \
"deb [arch="$(dpkg --print-architecture)" signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \
"$(. /etc/os-release && echo "$VERSION_CODENAME")" stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
complab304pc9@dellaio304:~$ sudo apt install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
containerd.io is already the newest version (1.6.28-2).
docker-buildx-plugin is already the newest version (0.13.1-1~ubuntu.22.04~jammy).
docker-ce-cli is already the newest version (5:26.0.0-1~ubuntu.22.04~jammy).
docker-ce is already the newest version (5:26.0.0-1~ubuntu.22.04~jammy).
docker-compose-plugin is already the newest version (2.25.0-1~ubuntu.22.04~jammy).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
complab304pc9@dellaio304:~$ sudo usermod -aG docker $USER
complab304pc9@dellaio304:~$ newgrp docker
complab304pc9@dellaio304:~$ systemctl status docker
docker.service - Docker Application Container Engine
Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset
Active: active (running) since Tue 2024-03-26 13:23:51 IST; 11min ago
TriggeredBy: docker.socket
Docs: https://docs.docker.com
Main PID: 1426 (dockerd)
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Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+0
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+0
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+0
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.583644897+0
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+0
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Eng

complab304pc9@dellaio304: ~

```
inerd.sock

Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.150187180+05
:30" level=info msg="Starting up"
Mar 26 13:23:47 dellaio304 dockerd[1426]: time="2024-03-26T13:23:47.200750211+05
:30" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved,
so using resolv.conf: /run/systemd/resolve/resol>
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.350700135+05
:30" level=info msg="[graphdriver] using prior storage driver: overlay2"
Mar 26 13:23:48 dellaio304 dockerd[1426]: time="2024-03-26T13:23:48.583644897+05
:30" level=info msg="Loading containers: start."
Mar 26 13:23:49 dellaio304 dockerd[1426]: time="2024-03-26T13:23:49.821444985+05
:30" level=info msg="Default bridge (docker0) is assigned with an IP address 172
.17.0.0/16. Daemon option --bip can be used to s>
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.188247766+05
:30" level=info msg="Loading containers: done."
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.831371168+05
:30" level=info msg="Docker daemon" commit=8b79278 containerd-snapshotter=false
storage-driver=overlay2 version=26.0.0
Mar 26 13:23:50 dellaio304 dockerd[1426]: time="2024-03-26T13:23:50.903925635+05
:30" level=info msg="Daemon has completed initialization"
Mar 26 13:23:51 dellaio304 systemd[1]: Started Docker Application Container Engi
ne.
Mar 26 13:23:51 dellaio304 dockerd[1426]: time="2024-03-26T13:23:51.366509503+05
```