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PUTTY (inactive)
login as: anusha954
anusha954@20.5.168.20's password:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1012-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Wed Aug 14 04:55:18 UTC 2024

System load:  0.06           Processes:            133
Usage of /:   5.0% of 28.02GB Users logged in:      0
Memory usage: 3%           IPv4 address for eth0: 10.1.0.4
Swap usage:   0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Aug 14 04:54:10 2024 from 210.18.153.3
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

anusha954@AnushaKubernetes:~$ sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0
MB]
```

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PUTTY (inactive)
Get:6 http://azure.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982
kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 Components [38
71 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata
[301 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [26
9 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [1
18 kB]
Get:11 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components
[35.0 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metad
ata [8328 B]
Get:13 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages
[346 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu noble-updates/main Translation-en
[86.9 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Met
adata [5712 B]
Get:16 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packa
ges [321 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe Translation
-en [135 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Compo
nents [45.0 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f
Metadata [12.7 kB]
Get:20 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Pac
kages [245 kB]
Get:21 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted Translati
on-en [47.8 kB]
Get:22 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Pac
kages [14.1 kB]
Get:23 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse Translati
on-en [3608 B]
Get:24 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Com
ponents [212 B]
Get:25 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n
```

```
Get:39 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Pack
ages [249 kB]
Get:40 http://azure.archive.ubuntu.com/ubuntu noble-security/universe Translati
on-en [108 kB]
Get:41 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 Comp
onents [8632 B]
Get:42 http://azure.archive.ubuntu.com/ubuntu noble-security/universe amd64 c-n-
f Metadata [9376 B]
Get:43 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Pa
ckages [245 kB]
Get:44 http://azure.archive.ubuntu.com/ubuntu noble-security/restricted Translat
ion-en [47.8 kB]
Get:45 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Pa
ckages [10.6 kB]
Get:46 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse Translat
ion-en [2808 B]
Get:47 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Co
mponents [208 B]
Get:48 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 c-
n-f Metadata [344 B]
Fetched 28.4 MB in 6s (4923 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
anusha954@AnushaKubernetes:~$ sudo apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
anusha954@AnushaKubernetes:~$ sudo reboot

Broadcast message from root@AnushaKubernetes on pts/1 (Wed 2024-08-14 05:01:56 U
TC):

The system will reboot now!

anusha954@AnushaKubernetes:~$
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System information as of Wed Aug 14 06:54:18 UTC 2024

System load:  0.11           Processes:    135
Usage of /:   8.5% of 28.02GB Users logged in:   0
Memory usage: 6%           IPv4 address for eth0: 10.1.0.4
Swap usage:   0%

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Last login: Wed Aug 14 05:51:53 2024 from 210.18.153.3
anusha954@AnushaKubernetes:~$ curl -LO https://storage.googleapis.com/miniku
be/releases/latest/minikube-linux-amd64
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
  0  0     0    0     0     0      0      0      0      0      0      0      0      0
  0  0     0    0     0     0      0      0      0      0      0      0      0      0
  0 91.1M   0 473k    0     0   401k      0  0:03:52  0:00:01  0:03:51  401
19 91.1M 19 17.5M    0     0  8165k      0  0:00:11  0:00:02  0:00:09 8164
46 91.1M 46 42.1M    0     0  13.2M      0  0:00:06  0:00:03  0:00:03 13.2
75 91.1M 75 68.4M    0     0  16.3M      0  0:00:05  0:00:04  0:00:01 16.3
100 91.1M 100 91.1M    0     0  17.7M      0  0:00:05  0:00:05  --:--:-- 18.5
M
anusha954@AnushaKubernetes:~$ sudo install minikube-linux-amd64 /usr/local/bi
n/minikube
anusha954@AnushaKubernetes:~$ minikube version
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anusha954@AnushaKubernetes: ~
- Configuring RBAC rules ...
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Kubernetes components...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: default-storageclass, storage-provisioner
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
anusha954@AnushaKubernetes:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

anusha954@AnushaKubernetes:~$ kubectl get nodes
NAME       STATUS   ROLES    AGE   VERSION
minikube   Ready    control-plane  46s   v1.30.0
anusha954@AnushaKubernetes:~$ 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:proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
anusha954@AnushaKubernetes:~$ kubectl create deployment nginx-web --image=nginx
deployment.apps/nginx-web created
anusha954@AnushaKubernetes:~$ kubectl expose deployment nginx-web --type NodePort --port=80
service/nginx-web exposed
anusha954@AnushaKubernetes:~$ kubectl get deployment,pod,svc
NAME                                READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/nginx-web           1/1     1             1           41s

NAME                                READY   STATUS    RESTARTS   AGE
pod/nginx-web-54f478b58f-6q8br      1/1     Running   0           41s

NAME                                TYPE          CLUSTER-IP   EXTERNAL-IP   PORT(S)
service/kubernetes                  ClusterIP     10.96.0.1     <none>         443/TCP
service/nginx-web                   NodePort      10.107.164.220 <none>         80:31828/TCP
anusha954@AnushaKubernetes:~$ minikube addons list
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anusha954@AnushaKubernetes:~$ 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) |
```