login as: ubuntu Authenticating with public key "Imported-Openssh-Key:

C:\\Users\\ruchika.kukade\\Downloads\\amit-centaurus-awskeypair.pem" • MobaXterm Personal Edition v21.3 • (SSH client, X server and network tools) → SSH session to ubuntu@52.39.177.130 Direct SSH • SSH compression : v • SSH-browser : v • X11-forwarding : v (remote display is forwarded through SSH) → For more info, ctrl+click on help or visit our website. Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86 64) \* Documentation: https://help.ubuntu.com \* Management: https://landscape.canonical.com \* Support: https://ubuntu.com/advantage System information as of Mon Oct 18 10:37:48 UTC 2021 Processes: 144 0.9% of 124.02GB Users logged in: a

System load: 0.0 Usage of /:

Memory usage: 0% IP address for eth0: 172.31.19.188

Swap usage:

0 packages can be updated. 0 of these updates are security updates.

Connecting to raw.githubusercontent.com

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/\*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist To run a command as administrator (user "root"), use "sudo <command>". See "man sudo\_root" for details. ubuntu@ip-172-31-19-188:~\$ uname -a Linux ip-172-31-19-188 5.4.0-1045-aws #47~18.04.1-Ubuntu SMP Tue Apr 13 15:58:14 UTC 2021 x86 64 x86 64 x86 64 GNU/Linux ubuntu@ip-172-31-19-188:~\$ wget https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh --2021-10-18 10:41:59-https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133, 185.199.110.133, 185.199.111.133, ...

```
(raw.githubusercontent.com) | 185.199.109.133 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 791 [text/plain]
Saving to: 'kernelupdate.sh'
kernelupdate.sh
791 --.-KB/s
                       in 0s
2021-10-18 10:41:59 (40.6 MB/s) - 'kernelupdate.sh' saved [791/791]
ubuntu@ip-172-31-19-188:~$ sudo bash kernelupdate.sh
--2021-10-18 10:43:55--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd6
4.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.233.235
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com) | 52.216.233.235 | :443...
HTTP request sent, awaiting response... 200 OK
Length: 7621020 (7.3M) []
Saving to: '../linux-5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64.deb'
linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64
100%[-----
===>] 7.27M 6.05MB/s
2021-10-18 10:43:57 (6.05 MB/s) -
"../linux-5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64.deb" saved
[7621020/7621020]
--2021-10-18 10:43:57--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2-dbg 5.6.0-rc2-1 am
d64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.233.235
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com) 52.216.233.235:443...
connected.
HTTP request sent, awaiting response... 200 OK
Length: 857827912 (818M) [application/x-www-form-urlencoded]
Saving to: '../linux-5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb'
linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd
===>] 818.09M 14.2MB/s
2021-10-18 10:45:18 (10.1 MB/s) -
"../linux-5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb" saved
[857827912/857827912]
--2021-10-18 10:45:18--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2 5.6.0-rc2-1 amd64.
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.115.51
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com) 52.216.115.51:443...
connected.
HTTP request sent, awaiting response... 200 OK
```

```
Length: 56427036 (54M) [application/x-www-form-urlencoded]
Saving to: '../linux-5.6-rc2/linux-image-5.6.0-rc2 5.6.0-rc2-1 amd64.deb'
linux-image-5.6.0-rc2 5.6.0-rc2-1 amd64.d
===>] 53.81M 8.51MB/s
                        in 6.9s
2021-10-18 10:45:26 (7.80 MB/s) -
'../linux-5.6-rc2/linux-image-5.6.0-rc2 5.6.0-rc2-1 amd64.deb' saved
[56427036/56427036]
--2021-10-18 10:45:26--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-libc-dev 5.6.0-rc2-1 amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.145.11
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com) 52.216.145.11:443...
connected.
HTTP request sent, awaiting response... 200 OK
Length: 1082248 (1.0M) []
Saving to: '../linux-5.6-rc2/linux-libc-dev 5.6.0-rc2-1 amd64.deb'
linux-libc-dev 5.6.0-rc2-1 amd64.deb
==>] 1.03M 1.79MB/s in 0.6s
2021-10-18 10:45:26 (1.79 MB/s) -
'../linux-5.6-rc2/linux-libc-dev 5.6.0-rc2-1 amd64.deb' saved [1082248/1082248]
Continue kernel update (y/n)?y
Updating kernel
Selecting previously unselected package linux-headers-5.6.0-rc2.
(Reading database ... 57240 files and directories currently installed.)
Preparing to unpack .../linux-headers-5.6.0-rc2 5.6.0-rc2-1 amd64.deb ...
Unpacking linux-headers-5.6.0-rc2 (5.6.0-rc2-1) ...
Selecting previously unselected package linux-image-5.6.0-rc2-dbg.
Preparing to unpack .../linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb ...
Unpacking linux-image-5.6.0-rc2-dbg (5.6.0-rc2-1) ...
Selecting previously unselected package linux-image-5.6.0-rc2.
Preparing to unpack .../linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb ...
Unpacking linux-image-5.6.0-rc2 (5.6.0-rc2-1) ...
Selecting previously unselected package linux-libc-dev:amd64.
Preparing to unpack .../linux-libc-dev 5.6.0-rc2-1 amd64.deb ...
Unpacking linux-libc-dev:amd64 (5.6.0-rc2-1) ...
Setting up linux-headers-5.6.0-rc2 (5.6.0-rc2-1) ...
Setting up linux-image-5.6.0-rc2-dbg (5.6.0-rc2-1) ...
Setting up linux-image-5.6.0-rc2 (5.6.0-rc2-1) ...
update-initramfs: Generating /boot/initrd.img-5.6.0-rc2
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/50-cloudimg-settings.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-5.6.0-rc2
Found initrd image: /boot/initrd.img-5.6.0-rc2
Found linux image: /boot/vmlinuz-5.4.0-1045-aws
Found initrd image: /boot/initrd.img-5.4.0-1045-aws
done
Setting up linux-libc-dev:amd64 (5.6.0-rc2-1) ...
```

```
Reboot host (y/n)?y
Rebooting
```

Remote side unexpectedly closed network connection

```
Session stopped
```

- Press <return> to exit tab
- Press R to restart session
- Press S to save terminal output to file

login as: ubuntu

Authenticating with public key "Imported-Openssh-Key:

C:\\Users\\ruchika.kukade\\Downloads\\amit-centaurus-awskeypair.pem"

```
    MobaXterm Personal Edition v21.3 •
        (SSH client, X server and network tools)
    → SSH session to ubuntu@52.39.177.130
        • Direct SSH : v
        • SSH compression : v
        • SSH-browser : v
        • X11-forwarding : v (remote display is forwarded through SSH)
    → For more info, ctrl+click on help or visit our website.
```

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.6.0-rc2 x86\_64)

```
* Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/advantage
 System information as of Mon Oct 18 10:52:50 UTC 2021
 System load: 0.24
                                  Processes:
                                                       166
 Usage of /: 6.5% of 124.02GB Users logged in:
                                                       0
 Memory usage: 0%
                                  IP address for eth0: 172.31.19.188
 Swap usage: 0%
0 packages can be updated.
0 of these updates are security updates.
New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Mon Oct 18 10:37:50 2021 from 114.143.207.106
ubuntu@ip-172-31-19-188:~$ uname -a
Linux ip-172-31-19-188 5.6.0-rc2 #1 SMP Tue Feb 25 18:54:05 UTC 2020 x86_64 x86_64 x86_64
GNU/Linux
ubuntu@ip-172-31-19-188:~$ git clone
https://github.com/Click2Cloud-Centaurus/arktos.git ~/go/src/k8s.io/arktos
```

```
Cloning into '/home/ubuntu/go/src/k8s.io/arktos'...
remote: Enumerating objects: 61542, done.
remote: Counting objects: 100% (946/946), done.
remote: Compressing objects: 100% (549/549), done.
remote: Total 61542 (delta 529), reused 599 (delta 380), pack-reused 60596
Receiving objects: 100% (61542/61542), 221.37 MiB | 29.13 MiB/s, done.
Resolving deltas: 100% (37765/37765), done.
Checking out files: 100% (20761/20761), done.
ubuntu@ip-172-31-19-188:~$ cd ~/go/src/k8s.io/arktos
ubuntu@ip-172-31-19-188:~/go/src/k8s.io/arktos$ git checkout cni-mizar
Branch 'cni-mizar' set up to track remote branch 'cni-mizar' from 'origin'.
Switched to a new branch 'cni-mizar'
ubuntu@ip-172-31-19-188:~/go/src/k8s.io/arktos$ sudo bash ./hack/setup-dev-node.sh
The script is to help install prerequisites of Arktos development environment
on a fresh Linux installation.
It's been tested on Ubuntu 16.04 LTS and 18.04 LTS.
Update apt.
Hit:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6]
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation-en
[4941 kB]
Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages
[151 kB]
Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en
[108 kB]
Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages
[2252 kB]
Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main
Translation-en [438 kB]
Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64
Packages [493 kB]
Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted
Translation-en [66.9 kB]
Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64
Packages [1756 kB]
Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe
Translation-en [377 kB]
Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64
Packages [27.3 kB]
Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse
Translation-en [6808 B]
Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main amd64
Packages [10.0 kB]
Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main
Translation-en [4764 B]
Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe amd64
Packages [10.3 kB]
Get:20 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe
Translation-en [4588 B]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [1906 kB]
```

```
Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [346 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [469
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en
Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1141
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [261
Get:27 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages
[20.9 kB]
Get:28 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en
[4732 B]
Fetched 23.7 MB in 6s (3949 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
89 packages can be upgraded. Run 'apt list --upgradable' to see them.
Install docker.
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 bridge-utils containerd pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse
| zfsutils
The following NEW packages will be installed:
  bridge-utils containerd docker.io pigz runc ubuntu-fan
0 upgraded, 6 newly installed, 0 to remove and 89 not upgraded.
Need to get 74.0 MB of archives.
After this operation, 359 MB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 pigz amd64
2.4-1 [57.4 kB]
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 bridge-utils
amd64 1.5-15ubuntu1 [30.1 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 runc
amd64 1.0.0~rc95-0ubuntu1~18.04.2 [4087 kB]
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64
containerd amd64 1.5.2-0ubuntu1~18.04.3 [32.8 MB]
Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64
docker.io amd64 20.10.7-0ubuntu1~18.04.2 [36.9 MB]
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 ubuntu-fan all
0.12.10 [34.7 kB]
Fetched 74.0 MB in 1s (49.6 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 88826 files and directories currently installed.)
Preparing to unpack .../0-pigz 2.4-1 amd64.deb ...
Unpacking pigz (2.4-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils 1.5-15ubuntu1 amd64.deb ...
Unpacking bridge-utils (1.5-15ubuntu1) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc 1.0.0~rc95-0ubuntu1~18.04.2 amd64.deb ...
```

```
Unpacking runc (1.0.0~rc95-0ubuntu1~18.04.2) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.5.2-0ubuntu1~18.04.3_amd64.deb ...
Unpacking containerd (1.5.2-0ubuntu1~18.04.3) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../4-docker.io 20.10.7-0ubuntu1~18.04.2 amd64.deb ...
Unpacking docker.io (20.10.7-0ubuntu1~18.04.2) ...
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../5-ubuntu-fan 0.12.10 all.deb ...
Unpacking ubuntu-fan (0.12.10) ...
Setting up runc (1.0.0~rc95-0ubuntu1~18.04.2) ...
Setting up containerd (1.5.2-0ubuntu1~18.04.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service →
/lib/systemd/system/containerd.service.
Setting up bridge-utils (1.5-15ubuntu1) ...
Setting up ubuntu-fan (0.12.10) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service →
/lib/systemd/system/ubuntu-fan.service.
Setting up pigz (2.4-1) ...
Setting up docker.io (20.10.7-0ubuntu1~18.04.2) ...
Adding group `docker' (GID 115) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service →
/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket →
/lib/systemd/system/docker.socket.
Processing triggers for systemd (237-3ubuntu10.46) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
Install make & gcc.
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
 make-doc
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 89 not upgraded.
Need to get 154 kB of archives.
After this operation, 381 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 make amd64
4.1-9.1ubuntu1 [154 kB]
Fetched 154 kB in 0s (0 B/s)
Selecting previously unselected package make.
(Reading database ... 89149 files and directories currently installed.)
Preparing to unpack .../make_4.1-9.1ubuntu1_amd64.deb ...
Unpacking make (4.1-9.1ubuntu1) ...
Setting up make (4.1-9.1ubuntu1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu cpp cpp-7 gcc-7 gcc-7-base libasan4
libatomic1 libbinutils libc-dev-bin libc6-dev libcc1-0 libcilkrts5
```

```
libgcc-7-dev libgomp1 libisl19 libitm1 liblsan0 libmpc3 libmpx2 libquadmath0 libtsan0
libubsan0 manpages-dev
Suggested packages:
  binutils-doc cpp-doc gcc-7-locales gcc-multilib autoconf automake libtool flex bison
gdb gcc-doc gcc-7-multilib gcc-7-doc libgcc1-dbg libgomp1-dbg libitm1-dbg
  libatomic1-dbg libasan4-dbg liblsan0-dbg libtsan0-dbg libubsan0-dbg libcilkrts5-dbg
libmpx2-dbg libquadmath0-dbg glibc-doc
The following NEW packages will be installed:
 binutils binutils-common binutils-x86-64-linux-gnu cpp cpp-7 gcc gcc-7 gcc-7-base
libasan4 libatomic1 libbinutils libc-dev-bin libc6-dev libcc1-0 libcilkrts5
  libgcc-7-dev libgomp1 libisl19 libitm1 liblsan0 libmpc3 libmpx2 libquadmath0 libtsan0
libubsan0 manpages-dev
0 upgraded, 26 newly installed, 0 to remove and 89 not upgraded.
Need to get 29.6 MB of archives.
After this operation, 112 MB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
binutils-common amd64 2.30-21ubuntu1~18.04.5 [197 kB]
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libbinutils amd64 2.30-21ubuntu1~18.04.5 [489 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
binutils-x86-64-linux-gnu amd64 2.30-21ubuntu1~18.04.5 [1839 kB]
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 binutils
amd64 2.30-21ubuntu1~18.04.5 [3388 B]
Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
gcc-7-base amd64 7.5.0-3ubuntu1~18.04 [18.3 kB]
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 libisl19 amd64
0.19-1 [551 kB]
Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 libmpc3 amd64
1.1.0-1 [40.8 kB]
Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 cpp-7
amd64 7.5.0-3ubuntu1~18.04 [8591 kB]
Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 cpp
amd64 4:7.4.0-1ubuntu2.3 [27.7 kB]
Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libcc1-0 amd64 8.4.0-1ubuntu1~18.04 [39.4 kB]
Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libgomp1 amd64 8.4.0-1ubuntu1~18.04 [76.5 kB]
Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libitm1
amd64 8.4.0-1ubuntu1~18.04 [27.9 kB]
Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libatomic1 amd64 8.4.0-1ubuntu1~18.04 [9192 B]
Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libasan4 amd64 7.5.0-3ubuntu1~18.04 [358 kB]
Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
liblsan0 amd64 8.4.0-1ubuntu1~18.04 [133 kB]
Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libtsan0 amd64 8.4.0-1ubuntu1~18.04 [288 kB]
Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libubsan0 amd64 7.5.0-3ubuntu1~18.04 [126 kB]
Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libcilkrts5 amd64 7.5.0-3ubuntu1~18.04 [42.5 kB]
Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libmpx2
amd64 8.4.0-1ubuntu1~18.04 [11.6 kB]
```

Get:20 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64

libquadmath0 amd64 8.4.0-1ubuntu1~18.04 [134 kB]

```
Get:21 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libgcc-7-dev amd64 7.5.0-3ubuntu1~18.04 [2378 kB]
Get:22 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 gcc-7
amd64 7.5.0-3ubuntu1~18.04 [9381 kB]
Get:23 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 gcc
amd64 4:7.4.0-1ubuntu2.3 [5184 B]
Get:24 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libc-dev-bin amd64 2.27-3ubuntu1.4 [71.8 kB]
Get:25 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libc6-dev amd64 2.27-3ubuntu1.4 [2585 kB]
Get:26 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 manpages-dev
all 4.15-1 [2217 kB]
Fetched 29.6 MB in 1s (56.2 MB/s)
Selecting previously unselected package binutils-common:amd64.
(Reading database ... 89165 files and directories currently installed.)
Preparing to unpack .../00-binutils-common 2.30-21ubuntu1~18.04.5 amd64.deb ...
Unpacking binutils-common:amd64 (2.30-21ubuntu1~18.04.5) ...
Selecting previously unselected package libbinutils:amd64.
Preparing to unpack .../01-libbinutils 2.30-21ubuntu1~18.04.5 amd64.deb ...
Unpacking libbinutils:amd64 (2.30-21ubuntu1~18.04.5) ...
Selecting previously unselected package binutils-x86-64-linux-gnu.
Preparing to unpack .../02-binutils-x86-64-linux-gnu_2.30-21ubuntu1~18.04.5_amd64.deb
Unpacking binutils-x86-64-linux-gnu (2.30-21ubuntu1~18.04.5) ...
Selecting previously unselected package binutils.
Preparing to unpack .../03-binutils 2.30-21ubuntu1~18.04.5 amd64.deb ...
Unpacking binutils (2.30-21ubuntu1~18.04.5) ...
Selecting previously unselected package gcc-7-base:amd64.
Preparing to unpack .../04-gcc-7-base 7.5.0-3ubuntu1~18.04 amd64.deb ...
Unpacking gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) ...
Selecting previously unselected package libisl19:amd64.
Preparing to unpack .../05-libisl19 0.19-1 amd64.deb ...
Unpacking libisl19:amd64 (0.19-1) ...
Selecting previously unselected package libmpc3:amd64.
Preparing to unpack .../06-libmpc3_1.1.0-1_amd64.deb ...
Unpacking libmpc3:amd64 (1.1.0-1) ...
Selecting previously unselected package cpp-7.
Preparing to unpack .../07-cpp-7_7.5.0-3ubuntu1~18.04_amd64.deb ...
Unpacking cpp-7 (7.5.0-3ubuntu1~18.04) ...
Selecting previously unselected package cpp.
Preparing to unpack .../08-cpp 4%3a7.4.0-1ubuntu2.3 amd64.deb ...
Unpacking cpp (4:7.4.0-1ubuntu2.3) ...
Selecting previously unselected package libcc1-0:amd64.
Preparing to unpack .../09-libcc1-0_8.4.0-1ubuntu1~18.04_amd64.deb ...
Unpacking libcc1-0:amd64 (8.4.0-1ubuntu1~18.04) ...
Selecting previously unselected package libgomp1:amd64.
Preparing to unpack .../10-libgomp1 8.4.0-1ubuntu1~18.04 amd64.deb ...
Unpacking libgomp1:amd64 (8.4.0-lubuntu1~18.04) ...
Selecting previously unselected package libitm1:amd64.
Preparing to unpack .../11-libitm1 8.4.0-1ubuntu1~18.04 amd64.deb ...
Unpacking libitm1:amd64 (8.4.0-1ubuntu1~18.04) ...
Selecting previously unselected package libatomic1:amd64.
Preparing to unpack .../12-libatomic1_8.4.0-lubuntu1~18.04_amd64.deb ...
Unpacking libatomic1:amd64 (8.4.0-1ubuntu1~18.04) ...
Selecting previously unselected package libasan4:amd64.
```

```
Preparing to unpack .../13-libasan4 7.5.0-3ubuntu1~18.04 amd64.deb ...
Unpacking libasan4:amd64 (7.5.0-3ubuntu1~18.04) ...
Selecting previously unselected package liblsan0:amd64.
Preparing to unpack .../14-liblsan0 8.4.0-lubuntu1~18.04 amd64.deb ...
Unpacking liblsan0:amd64 (8.4.0-1ubuntu1~18.04) ...
Selecting previously unselected package libtsan0:amd64.
Preparing to unpack .../15-libtsan0_8.4.0-1ubuntu1~18.04_amd64.deb ...
Unpacking libtsan0:amd64 (8.4.0-1ubuntu1~18.04) ...
Selecting previously unselected package libubsan0:amd64.
Preparing to unpack .../16-libubsan0 7.5.0-3ubuntu1~18.04 amd64.deb ...
Unpacking libubsan0:amd64 (7.5.0-3ubuntu1~18.04) ...
Selecting previously unselected package libcilkrts5:amd64.
Preparing to unpack .../17-libcilkrts5 7.5.0-3ubuntu1~18.04 amd64.deb ...
Unpacking libcilkrts5:amd64 (7.5.0-3ubuntu1~18.04) ...
Selecting previously unselected package libmpx2:amd64.
Preparing to unpack .../18-libmpx2 8.4.0-1ubuntu1~18.04 amd64.deb ...
Unpacking libmpx2:amd64 (8.4.0-1ubuntu1~18.04) ...
Selecting previously unselected package libquadmath0:amd64.
Preparing to unpack .../19-libquadmath0 8.4.0-lubuntu1~18.04 amd64.deb ...
Unpacking libquadmath0:amd64 (8.4.0-1ubuntu1~18.04) ...
Selecting previously unselected package libgcc-7-dev:amd64.
Preparing to unpack .../20-libgcc-7-dev_7.5.0-3ubuntu1~18.04 amd64.deb ...
Unpacking libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...
Selecting previously unselected package gcc-7.
Preparing to unpack .../21-gcc-7_7.5.0-3ubuntu1~18.04_amd64.deb ...
Unpacking gcc-7 (7.5.0-3ubuntu1~18.04) ...
Selecting previously unselected package gcc.
Preparing to unpack .../22-gcc_4%3a7.4.0-1ubuntu2.3_amd64.deb ...
Unpacking gcc (4:7.4.0-1ubuntu2.3) ...
Selecting previously unselected package libc-dev-bin.
Preparing to unpack .../23-libc-dev-bin_2.27-3ubuntu1.4_amd64.deb ...
Unpacking libc-dev-bin (2.27-3ubuntu1.4) ...
Selecting previously unselected package libc6-dev:amd64.
Preparing to unpack .../24-libc6-dev 2.27-3ubuntu1.4 amd64.deb ...
Unpacking libc6-dev:amd64 (2.27-3ubuntu1.4) ...
Selecting previously unselected package manpages-dev.
Preparing to unpack .../25-manpages-dev 4.15-1 all.deb ...
Unpacking manpages-dev (4.15-1) ...
Setting up libquadmath0:amd64 (8.4.0-lubuntu1~18.04) ...
Setting up libgomp1:amd64 (8.4.0-1ubuntu1~18.04) ...
Setting up libatomic1:amd64 (8.4.0-1ubuntu1~18.04) ...
Setting up libcc1-0:amd64 (8.4.0-1ubuntu1~18.04) ...
Setting up libtsan0:amd64 (8.4.0-1ubuntu1~18.04) ...
Setting up liblsan0:amd64 (8.4.0-1ubuntu1~18.04) ...
Setting up gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) ...
Setting up binutils-common:amd64 (2.30-21ubuntu1~18.04.5) ...
Setting up libmpx2:amd64 (8.4.0-1ubuntu1~18.04) ...
Setting up libmpc3:amd64 (1.1.0-1) ...
Setting up libc-dev-bin (2.27-3ubuntu1.4) ...
Setting up manpages-dev (4.15-1) ...
Setting up libc6-dev:amd64 (2.27-3ubuntu1.4) ...
Setting up libitm1:amd64 (8.4.0-1ubuntu1~18.04) ...
Setting up libisl19:amd64 (0.19-1) ...
Setting up libasan4:amd64 (7.5.0-3ubuntu1~18.04) ...
Setting up libbinutils:amd64 (2.30-21ubuntu1~18.04.5) ...
```

```
Setting up libcilkrts5:amd64 (7.5.0-3ubuntu1~18.04) ...
Setting up libubsan0:amd64 (7.5.0-3ubuntu1~18.04) ...
Setting up libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...
Setting up cpp-7 (7.5.0-3ubuntu1~18.04) ...
Setting up binutils-x86-64-linux-gnu (2.30-21ubuntu1~18.04.5) ...
Setting up cpp (4:7.4.0-1ubuntu2.3) ...
Setting up binutils (2.30-21ubuntu1~18.04.5) ...
Setting up gcc-7 (7.5.0-3ubuntu1~18.04) ...
Setting up gcc (4:7.4.0-1ubuntu2.3) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for libc-bin (2.27-3ubuntu1.4) ...
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libjq1 libonig4
The following NEW packages will be installed:
  ia libia1 libonig4
0 upgraded, 3 newly installed, 0 to remove and 89 not upgraded.
Need to get 276 kB of archives.
After this operation, 930 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 libonig4
amd64 6.7.0-1 [119 kB]
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 libjq1 amd64
1.5+dfsg-2 [111 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 jq amd64
1.5+dfsg-2 [45.6 kB]
Fetched 276 kB in 0s (17.3 MB/s)
Selecting previously unselected package libonig4:amd64.
(Reading database ... 92426 files and directories currently installed.)
Preparing to unpack .../libonig4_6.7.0-1_amd64.deb ...
Unpacking libonig4:amd64 (6.7.0-1) ...
Selecting previously unselected package libjq1:amd64.
Preparing to unpack .../libjq1_1.5+dfsg-2_amd64.deb ...
Unpacking libjq1:amd64 (1.5+dfsg-2) ...
Selecting previously unselected package jq.
Preparing to unpack .../jq_1.5+dfsg-2_amd64.deb ...
Unpacking jq (1.5+dfsg-2) ...
Setting up libonig4:amd64 (6.7.0-1) ...
Setting up libjq1:amd64 (1.5+dfsg-2) ...
Setting up jq (1.5+dfsg-2) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for libc-bin (2.27-3ubuntu1.4) ...
Install golang.
--2021-10-18 11:08:05-- https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 142.251.33.110, 2607:f8b0:400a:805::200e
Connecting to dl.google.com (dl.google.com) | 142.251.33.110 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 120139686 (115M) [application/octet-stream]
Saving to: '/tmp/go1.13.9.linux-amd64.tar.gz'
go1.13.9.linux-amd64.tar.gz
===>] 114.57M 46.6MB/s in 2.5s
```

```
2021-10-18 11:08:07 (46.6 MB/s) - '/tmp/go1.13.9.linux-amd64.tar.gz' saved
[120139686/120139686]
Done.
Please run and add 'export PATH=$PATH:/usr/local/go/bin' into your shell profile.
You can proceed to run arktos-up.sh if you want to launch a single-node cluster.
ubuntu@ip-172-31-19-188:~/go/src/k8s.io/arktos$ echo export
PATH=$PATH:/usr/local/go/bin\ >> ~/.profile
ubuntu@ip-172-31-19-188:~/go/src/k8s.io/arktos$ echo cd \$HOME/go/src/k8s.io/arktos >>
~/.profile
ubuntu@ip-172-31-19-188:~/go/src/k8s.io/arktos$ source ~/.profile
ubuntu@ip-172-31-19-188:~/go/src/k8s.io/arktos$ CNIPLUGIN=mizar ./hack/arktos-up.sh
DBG: mizar CNI plugin will be installed AFTER cluster is up
DBG: effective feature gates
AllAlpha=false,WorkloadInfoDefaulting=true,QPSDoubleGCController=true,QPSDoubleRSCont
roller=true,MandatoryArktosNetwork=true
DBG: effective disabling admission plugins
DBG: effective default network template file is
/home/ubuntu/go/src/k8s.io/arktos/hack/testdata/default-mizar-network.tmpl
DBG: kubelet arg RESOLV CONF is /run/systemd/resolve/resolv.conf
WARNING: The kubelet is configured to not fail even if swap is enabled; production
deployments should disable swap.
WARNING: This script MAY be run as root for docker socket / iptables functionality; if
failures occur, retry as root.
cni plugin is mizar; arktos will use mizar to provision pod network
Checking arktos containerd...
arktos containerd not found...
--2021-10-18 11:14:44--
https://github.com/containerd/containerd/releases/download/v1.4.2/containerd-1.4.2-li
nux-amd64.tar.gz
Resolving github.com (github.com)... 192.30.255.112
Connecting to github.com (github.com) | 192.30.255.112 | :443... connected.
HTTP request sent, awaiting response... 302 Found
Location:
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-ed435a
7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20211
018%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211018T111444Z&X-Amz-Expires=300&X-A
mz-Signature=d296ce4e7c262d063377110f32829f65345e2f1af35fd0f5ed98dfa6e111dd1c&X-Amz-S
ignedHeaders=host&actor_id=0&key_id=0&repo_id=46089560&response-content-disposition=a
ttachment%3B%20filename%3Dcontainerd-1.4.2-linux-amd64.tar.gz&response-content-type=a
pplication%2Foctet-stream [following]
--2021-10-18 11:14:44--
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-ed435a
7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20211
018%2Fus-east-1%2Fs3%2Faws4 request&X-Amz-Date=20211018T111444Z&X-Amz-Expires=300&X-A
mz-Signature=d296ce4e7c262d063377110f32829f65345e2f1af35fd0f5ed98dfa6e111dd1c&X-Amz-S
ignedHeaders=host&actor id=0&key id=0&repo id=46089560&response-content-disposition=a
ttachment%3B%20filename%3Dcontainerd-1.4.2-linux-amd64.tar.gz&response-content-type=a
pplication%2Foctet-stream
Resolving github-releases.githubusercontent.com
(github-releases.githubusercontent.com)... 185.199.111.154, 185.199.110.154,
185.199.109.154, ...
```

Connecting to github-releases.githubusercontent.com

HTTP request sent, awaiting response... 200 OK

(github-releases.githubusercontent.com) | 185.199.111.154 | :443... connected.

```
Length: 31160021 (30M) [application/octet-stream]
Saving to: '/home/ubuntu/arktos-containerd/containerd-1.4.2-linux-amd64.tar.gz'
containerd-1.4.2-linux-amd64.tar.gz
===>] 29.72M 35.9MB/s
                         in 0.8s
2021-10-18 11:14:45 (35.9 MB/s) -
'/home/ubuntu/arktos-containerd/containerd-1.4.2-linux-amd64.tar.gz' saved
[31160021/31160021]
installing arktos containerd...
installing loopback cni binary...
./loopback
2021-10-18 11:15:01
URL:https://github-releases.githubusercontent.com/84575398/53318d00-bf61-11e9-9a8f-40
364582e9ed?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F2
0211018%2Fus-east-1%2Fs3%2Faws4 request&X-Amz-Date=20211018T111500Z&X-Amz-Expires=300
&X-Amz-Signature=53aa1cdb06e21ddba9126fa8aa94d4b5527853b8c0a7f16c4e41ea999a1453f4&X-A
mz-SignedHeaders=host&actor id=0&key id=0&repo id=84575398&response-content-dispositi
on=attachment%3B%20filename%3Dcni-plugins-linux-amd64-v0.8.2.tgz&response-content-typ
e=application%2Foctet-stream [36662740/36662740] -> "-" [1]
WARNING: The kubelet is configured to not fail even if swap is enabled; production
deployments should disable swap.
WARNING: This script MAY be run as root for docker socket / iptables functionality; if
failures occur, retry as root.
Getting runtime deployment file libvirt-qemu
--2021-10-18 11:15:01--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
y/apparmor/libvirt-qemu
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.108.133,
185.199.109.133, 185.199.110.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com) | 185.199.108.133 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 6578 (6.4K) [text/plain]
Saving to: '/tmp/libvirt-qemu'
/tmp/libvirt-qemu
===>] 6.42K --.-KB/s
                         in 0s
2021-10-18 11:15:02 (62.2 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]
Getting runtime deployment file libvirtd
--2021-10-18 11:15:02--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
y/apparmor/libvirtd
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133,
185.199.110.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com) | 185.199.111.133 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1617 (1.6K) [text/plain]
Saving to: '/tmp/libvirtd'
```

```
/tmp/libvirtd
100%[-----
      1.58K --.-KB/s
                        in 0s
2021-10-18 11:15:02 (24.8 MB/s) - '/tmp/libvirtd' saved [1617/1617]
Getting runtime deployment file virtlet
--2021-10-18 11:15:02--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
v/apparmor/virtlet
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133,
185.199.110.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com) | 185.199.111.133 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2582 (2.5K) [text/plain]
Saving to: '/tmp/virtlet'
/tmp/virtlet
100%[-----
===>] 2.52K --.-KB/s
                        in 0s
2021-10-18 11:15:02 (38.0 MB/s) - '/tmp/virtlet' saved [2582/2582]
Getting runtime deployment file vms
--2021-10-18 11:15:02--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
y/apparmor/vms
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133,
185.199.110.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com) | 185.199.111.133 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 485 [text/plain]
Saving to: '/tmp/vms'
/tmp/vms
485 --.-KB/s
                        in 0s
2021-10-18 11:15:02 (25.5 MB/s) - '/tmp/vms' saved [485/485]
Getting runtime deployment file vmruntime.yaml
--2021-10-18 11:15:02--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
y/data/virtlet-ds.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133,
185.199.110.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com) | 185.199.111.133 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11643 (11K) [text/plain]
Saving to: '/tmp/vmruntime.yaml'
```

```
/tmp/vmruntime.yaml
===>] 11.37K --.-KB/s
                        in 0s
2021-10-18 11:15:02 (60.7 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]
Getting runtime deployment file images.yaml
--2021-10-18 11:15:02--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
y/images.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133,
185.199.110.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com) | 185.199.111.133 | :443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 254 [text/plain]
Saving to: '/tmp/images.yaml'
/tmp/images.yaml
100% [-----
===>1
       254 --.-KB/s in 0s
2021-10-18 11:15:03 (13.5 MB/s) - '/tmp/images.yaml' saved [254/254]
Stopping Apparmor service
make: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
make[1]: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
+++ [1018 11:15:10] Building go targets for linux/amd64:
    ./vendor/k8s.io/code-generator/cmd/deepcopy-gen
+++ [1018 11:15:10] Building go targets for linux/amd64:
    ./vendor/k8s.io/code-generator/cmd/conversion-gen
+++ [1018 11:15:10] Building go targets for linux/amd64:
    ./vendor/k8s.io/code-generator/cmd/defaulter-gen
+++ [1018 11:15:10] Building go targets for linux/amd64:
    ./vendor/k8s.io/kube-openapi/cmd/openapi-gen
+++ [1018 11:15:16] Building go targets for linux/amd64:
    ./vendor/github.com/go-bindata/go-bindata/
make[1]: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
Running copyright check for repo: /home/ubuntu/go/src/k8s.io/arktos, logging to
_output/ArktosCopyrightTool.log
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3064 and retry
the command.
~/go/src/k8s.io/arktos
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3064 and retry
the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
+++ [1018 11:15:41] Building go targets for linux/amd64:
   cmd/kubectl
   cmd/hyperkube
```

cmd/kube-apiserver cmd/kube-controller-manager cmd/workload-controller-manager cmd/cloud-controller-manager cmd/kubelet cmd/kube-proxy cmd/kube-scheduler cmd/arktos-network-controller Running copyright check for repo: /home/ubuntu/go/src/k8s.io/arktos, logging to \_output/ArktosCopyrightTool.log ~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos warning: inexact rename detection was skipped due to too many files. warning: you may want to set your diff.renameLimit variable to at least 3064 and retry the command. ~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos warning: inexact rename detection was skipped due to too many files. warning: you may want to set your diff.renameLimit variable to at least 3064 and retry the command. ~/go/src/k8s.io/arktos Inspecting copyright files, writing logs to \_output/ArktosCopyrightTool.log make: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos' cannot find etcd locally. will install one. Downloading https://github.com/centaurus-cloud/etcd/releases/download/v3.4.3/etcd-v3.4.3-linux-am d64.tar.gz succeed etcd v3.4.3 installed. To use: export PATH="/home/ubuntu/go/src/k8s.io/arktos/third party/etcd:\${PATH}" The current version is 3.4.3 API SERVER insecure port is free, proceeding... API SERVER secure port is free, proceeding... Unable to successfully run 'cfssl' from /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin:/usr/games:/usr/local/ga mes:/snap/bin:/usr/local/go/bin:/home/ubuntu/go/src/k8s.io/arktos/third\_party/etcd; downloading instead...

%	Total	%	Received	%	Xferd	Averag	e Speed	Time	Time	Time	Current
						Dload	Upload	Total	Spent	Left	Speed
0	0	0	0	0	0	0	0 -	-::	:	::-	- 0
100	623	100	623	0	0	2359	0 -	-::	:	::-	- 2359
100	9.8M	100	9.8M	0	0	14.0M	0 -	-::	:	::-	- 68.3M
%	Total	%	Received	%	Xferd	Averag	e Speed	Time	Time	Time	Current
						Dload	Upload	Total	Spent	Left	Speed
0	0	0	0	0	0	0	0 -	-::	:	::-	- 0
100	627	100	627	0	0	2737	0 -	-::	:	::-	- 2737
100	2224k	100	2224k	0	0	3622k	0 -	-::	:	::-	- 3622k
Detected host and ready to start services. Doing some housekeeping first											
Using GO_OUT /home/ubuntu/go/src/k8s.io/arktos/_output/local/bin/linux/amd64											
Starting services now!											
Starting etcd											

The current version is 3.4.3

```
etcd --name ip-172-31-19-188 --listen-peer-urls http://172.31.19.188:2380
--advertise-client-urls http://172.31.19.188:2379 --data-dir /tmp/tmp.lPEclZYiYC
--listen-client-urls http://172.31.19.188:2379,http://127.0.0.1:2379
--listen-peer-urls http://172.31.19.188:2380 --debug > "/tmp/etcd.log" 2>/dev/null
Waiting for etcd to come up.
+++ [1018 11:18:01] On try 2, etcd: : {"health":"true"}
{"header":{"cluster_id":"8905617389353845436","member_id":"11100275274438703289","rev
ision":"2","raft_term":"2"}}Starting 1 kube-apiserver instances. If you want to make
changes to the kube-apiserver nubmer, please run export APISERVER SERVER=n(n=1,2,...).
Copied the apiserver partition config file /var/run/kubernetes/apiserver.config...
Can't load /home/ubuntu/.rnd into RNG
140487555805632:error:2406F079:random number generator:RAND load file:Cannot open
file:../crypto/rand/randfile.c:88:Filename=/home/ubuntu/.rnd
Generating a RSA private key
.....++++
writing new private key to '/var/run/kubernetes/server-ca.key'
Can't load /home/ubuntu/.rnd into RNG
140482203820480:error:2406F079:random number generator:RAND load file:Cannot open
file:../crypto/rand/randfile.c:88:Filename=/home/ubuntu/.rnd
Generating a RSA private key
....+++++
writing new private key to '/var/run/kubernetes/client-ca.key'
Can't load /home/ubuntu/.rnd into RNG
139633793581504:error:2406F079:random number generator:RAND_load_file:Cannot open
file:../crypto/rand/randfile.c:88:Filename=/home/ubuntu/.rnd
Generating a RSA private key
.....++++
.....+++++
writing new private key to '/var/run/kubernetes/request-header-ca.key'
2021/10/18 11:18:02 [INFO] generate received request
2021/10/18 11:18:02 [INFO] received CSR
2021/10/18 11:18:02 [INFO] generating key: rsa-2048
2021/10/18 11:18:02 [INFO] encoded CSR
2021/10/18 11:18:02 [INFO] signed certificate with serial number
429415944603568540820049381807273954734569730335
2021/10/18 11:18:02 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:02 [INFO] generate received request
2021/10/18 11:18:02 [INFO] received CSR
2021/10/18 11:18:02 [INFO] generating key: rsa-2048
2021/10/18 11:18:02 [INFO] encoded CSR
2021/10/18 11:18:02 [INFO] signed certificate with serial number
505631048413296207863270885946573971514286787149
2021/10/18 11:18:02 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
```

```
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:02 [INFO] generate received request
2021/10/18 11:18:02 [INFO] received CSR
2021/10/18 11:18:02 [INFO] generating key: rsa-2048
2021/10/18 11:18:03 [INFO] encoded CSR
2021/10/18 11:18:03 [INFO] signed certificate with serial number
247837066245682911021003144280546563075459018242
2021/10/18 11:18:03 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:03 [INFO] generate received request
2021/10/18 11:18:03 [INFO] received CSR
2021/10/18 11:18:03 [INFO] generating key: rsa-2048
2021/10/18 11:18:03 [INFO] encoded CSR
2021/10/18 11:18:03 [INFO] signed certificate with serial number
579545421358252358270292860519601182550462332339
2021/10/18 11:18:03 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:03 [INFO] generate received request
2021/10/18 11:18:03 [INFO] received CSR
2021/10/18 11:18:03 [INFO] generating key: rsa-2048
2021/10/18 11:18:04 [INFO] encoded CSR
2021/10/18 11:18:04 [INFO] signed certificate with serial number
443177995633244027519908561996915934564863560858
2021/10/18 11:18:04 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:04 [INFO] generate received request
2021/10/18 11:18:04 [INFO] received CSR
2021/10/18 11:18:04 [INFO] generating key: rsa-2048
2021/10/18 11:18:04 [INFO] encoded CSR
2021/10/18 11:18:04 [INFO] signed certificate with serial number
676175053152986765756984298769391303720835687901
2021/10/18 11:18:04 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
```

```
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:04 [INFO] generate received request
2021/10/18 11:18:04 [INFO] received CSR
2021/10/18 11:18:04 [INFO] generating key: rsa-2048
2021/10/18 11:18:04 [INFO] encoded CSR
2021/10/18 11:18:04 [INFO] signed certificate with serial number
328640208605310850162673992979139552134425656957
2021/10/18 11:18:04 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:04 [INFO] generate received request
2021/10/18 11:18:04 [INFO] received CSR
2021/10/18 11:18:04 [INFO] generating key: rsa-2048
2021/10/18 11:18:05 [INFO] encoded CSR
2021/10/18 11:18:05 [INFO] signed certificate with serial number
426481593205943784932866615382750422455067885451
2021/10/18 11:18:05 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/18 11:18:05 [INFO] generate received request
2021/10/18 11:18:05 [INFO] received CSR
2021/10/18 11:18:05 [INFO] generating key: rsa-2048
2021/10/18 11:18:05 [INFO] encoded CSR
2021/10/18 11:18:05 [INFO] signed certificate with serial number
519773288521632147475181438458665954105336954406
2021/10/18 11:18:05 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
Waiting for apiserver to come up
+++ [1018 11:18:15] On try 8, apiserver: : ok
clusterrolebinding.rbac.authorization.k8s.io/kube-apiserver-kubelet-admin created
Cluster "local-up-cluster" set.
use 'kubectl --kubeconfig=/var/run/kubernetes/admin-kube-aggregator0.kubeconfig' to use
the aggregated API server
2021/10/18 11:18:15 [INFO] generate received request
2021/10/18 11:18:15 [INFO] received CSR
2021/10/18 11:18:15 [INFO] generating key: rsa-2048
2021/10/18 11:18:15 [INFO] encoded CSR
2021/10/18 11:18:15 [INFO] signed certificate with serial number
71528169052869619782911939698789907692144244051
2021/10/18 11:18:15 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
```

```
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
service/kube-dns created
serviceaccount/kube-dns created
configmap/kube-dns created
deployment.apps/kube-dns created
Kube-dns addon successfully deployed.
2021/10/18 11:18:16 [INFO] generate received request
2021/10/18 11:18:16 [INFO] received CSR
2021/10/18 11:18:16 [INFO] generating key: rsa-2048
2021/10/18 11:18:16 [INFO] encoded CSR
2021/10/18 11:18:16 [INFO] signed certificate with serial number
167408329880345231481124819290869142849746964680
2021/10/18 11:18:16 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
kubelet (9459) is running.
customresourcedefinition.apiextensions.k8s.io/bouncers.mizar.com created
customresourcedefinition.apiextensions.k8s.io/dividers.mizar.com created
customresourcedefinition.apiextensions.k8s.io/droplets.mizar.com created
customresourcedefinition.apiextensions.k8s.io/endpoints.mizar.com created
customresourcedefinition.apiextensions.k8s.io/subnets.mizar.com created
customresourcedefinition.apiextensions.k8s.io/vpcs.mizar.com created
serviceaccount/mizar-operator created
clusterrolebinding.rbac.authorization.k8s.io/mizar-operator created
daemonset.apps/mizar-daemon created
deployment.apps/mizar-operator created
Create default storage class for
storageclass.storage.k8s.io/standard created
customresourcedefinition.apiextensions.k8s.io/networks.arktos.futurewei.com created
Setup Arktos components ...
Waiting for node ready at api server
```

```
Waiting for node ready at api server
```

```
Waiting for node ready at api server
ip-172-31-19-188
                   Ready
                           <none>
                                    5m33s
                                            v0.9.0
node/ip-172-31-19-188 labeled
configmap/virtlet-image-translations created
daemonset.apps/virtlet created
configmap/virtlet-config created
clusterrolebinding.rbac.authorization.k8s.io/virtlet created
clusterrole.rbac.authorization.k8s.io/virtlet created
clusterrole.rbac.authorization.k8s.io/configmap-reader created
clusterrole.rbac.authorization.k8s.io/virtlet-userdata-reader created
clusterrolebinding.rbac.authorization.k8s.io/kubelet-node-binding created
clusterrolebinding.rbac.authorization.k8s.io/vm-userdata-binding created
clusterrole.rbac.authorization.k8s.io/virtlet-crd created
clusterrolebinding.rbac.authorization.k8s.io/virtlet-crd created
serviceaccount/virtlet created
NAME
          DESIRED
                   CURRENT
                              READY
                                      UP-TO-DATE
                                                   AVAILABLE
                                                               NODE SELECTOR
                                                                               ΔGF
                                                                               95
clusterrole.rbac.authorization.k8s.io/system:arktos-network-reader created
clusterrolebinding.rbac.authorization.k8s.io/system:kubelet-network-reader created
```

Arktos Setup done.

\*\*\*\*\*\*\*\*\*\*\*

```
Setup Kata Containers components ...
* Install Kata components
kata-containers 2.2.2 from Kata Containers (katacontainers√) installed
* Checking Kata compatibility
No newer release available time="2021-10-18T11:24:07Z" level=error msg="CPU property not
found" arch=amd64 description="Virtualization support" name=vmx pid=30963 source=runtime
type=flag time="2021-10-18T11:24:07Z" level=error msg="Module is not loaded and it can
not be inserted. Please consider running with sudo or as root" arch=amd64 module=vhost
name=kata-runtime pid=30963 source=runtime time="2021-10-18T11:24:07Z" level=error
msg="kernel property not found" arch=amd64 description="Host kernel accelerator for
virtio" name=vhost pid=30963 source=runtime type=module time="2021-10-18T11:24:07Z"
level=error msg="Module is not loaded and it can not be inserted. Please consider running
with sudo or as root" arch=amd64 module=vhost_net name=kata-runtime pid=30963
source=runtime time="2021-10-18T11:24:07Z" level=error msg="kernel property not found"
arch=amd64 description="Host kernel accelerator for virtio network" name=vhost_net
pid=30963 source=runtime type=module time="2021-10-18T11:24:07Z" level=error
msg="Module is not loaded and it can not be inserted. Please consider running with sudo
or as root" arch=amd64 module=vhost vsock name=kata-runtime pid=30963 source=runtime
time="2021-10-18T11:24:07Z" level=error msg="kernel property not found" arch=amd64
description="Host Support for Linux VM Sockets" name=vhost_vsock pid=30963 source=runtime
type=module time="2021-10-18T11:24:07Z" level=error msg="Module is not loaded and it can
not be inserted. Please consider running with sudo or as root" arch=amd64 module=kvm intel
name=kata-runtime pid=30963 source=runtime time="2021-10-18T11:24:07Z" level=error
msg="kernel property not found" arch=amd64 description="Intel KVM" name=kvm_intel
pid=30963 source=runtime type=module time="2021-10-18T11:24:07Z" level=error
msg="Module is not loaded and it can not be inserted. Please consider running with sudo
or as root" arch=amd64 module=kvm name=kata-runtime pid=30963 source=runtime
time="2021-10-18T11:24:07Z" level=error msg="kernel property not found" arch=amd64
description="Kernel-based Virtual Machine" name=kvm pid=30963 source=runtime type=module
time="2021-10-18T11:24:07Z" level=error msg="ERROR: System is not capable of running Kata
Containers" arch=amd64 name=kata-runtime pid=30963 source=runtime ERROR: System is not
capable of running Kata Containers
Aborted. Current system does not support Kata Containers.
Kata Setup done.
************
Local Kubernetes cluster is running. Press Ctrl-C to shut it down.
Logs:
  /tmp/kube-apiserver0.log
  /tmp/kube-controller-manager.log
  /tmp/kube-proxy.log
  /tmp/kube-scheduler.log
 /tmp/kubelet.log
To start using your cluster, you can open up another terminal/tab and run:
 export KUBECONFIG=/var/run/kubernetes/admin.kubeconfig
0r
  export KUBECONFIG=/var/run/kubernetes/adminN(N=0,1,...).kubeconfig
  cluster/kubectl.sh
Alternatively, you can write to the default kubeconfig:
```

## export KUBERNETES\_PROVIDER=local

```
cluster/kubectl.sh config set-cluster local --server=https://ip-172-31-19-188:6443
--certificate-authority=/var/run/kubernetes/server-ca.crt
    cluster/kubectl.sh config set-credentials myself
--client-key=/var/run/kubernetes/client-admin.key
--client-certificate=/var/run/kubernetes/client-admin.crt
    cluster/kubectl.sh config set-context local --cluster=local --user=myself
    cluster/kubectl.sh config use-context local
    cluster/kubectl.sh
```