Authenticating with public key "Imported-Openssh-Key: C:\\Users\\kaliram.sahu\\Downloads\\ram-aws.pem"

MobaXterm Professional v21.0
 (SSH client, X server and network tools)

➤ SSH session to ubuntu@54.244.205.202

Direct SSH : ✓SSH compression : ✓SSH-browser : ✓

X11-forwarding : ✓ (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 Wed Oct 13 08:38:50 UTC 2021

System load: 0.22 Processes: 186
Usage of /: 1.2% of 96.88GB Users logged in: 0

Memory usage: 0% IP address for eth0: 172.31.16.72

Swap usage: 0%

0 packages can be updated.

0 of these updates are security updates.

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-172-31-16-72:~\$ uname -a

Linux ip-172-31-16-72 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-172-31-16-72:~\$ wget

https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh --2021-10-13 08:39:39--

https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh Resolving raw.githubusercontent.com (raw.githubusercontent.com)...

185.199.111.133, 185.199.108.133, 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: 791 [text/plain]
Saving to: 'kernelupdate.sh'
kernelupdate.sh
791 --.-KB/s
======>]
                                      in 0s
2021-10-13 08:39:39 (41.4 MB/s) - 'kernelupdate.sh' saved [791/791]
ubuntu@ip-172-31-16-72:~$ sudo bash kernelupdate.sh
--2021-10-13 08:39:40--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1
amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.217.88.156
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com) | 52.217.88.156 | :443... connected.
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.de
=======>] 7.27M 1.16MB/s in 8.9s
2021-10-13 08:39:50 (835 KB/s) - '../linux-
5.6-rc2/linux-headers-5.6.0-rc2 5.6.0-rc2-1 amd64.deb' saved [7621020/7621020]
--2021-10-13 08:39:50--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2
-1_amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.251.140
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com) | 52.216.251.140 | :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_amd64.
========>] 818.09M 6.19MB/s in 2m 5s
2021-10-13 08:41:55 (6.55 MB/s) - '../linux-
5.6-rc2/linux-image-5.6.0-rc2-dbg 5.6.0-rc2-1 amd64.deb' saved
[857827912/857827912]
--2021-10-13 08:41:55--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_a
md64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.217.98.140
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com) | 52.217.98.140 | :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.deb
========>] 53.81M 8.42MB/s in 6.8s
2021-10-13 08:42:02 (7.89 MB/s) - '../linux-
5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved [56427036/56427036]
--2021-10-13 08:42:02--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-libc-dev 5.6.0-rc2-1 amd64.de
b
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.78.52
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com) | 52.216.78.52 | :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 1.72MB/s in 0.6s
2021-10-13 08:42:03 (1.72 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

Network error: Connection timed out

Session stopped

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

Authenticating with public key "Imported-Openssh-Key:

C:\\Users\\kaliram.sahu\\Downloads\\ram-aws.pem"

 MobaXterm Professional v21.0 ⋅ (SSH client, X server and network tools)

- ➤ SSH session to ubuntu@54.244.205.202
 - · Direct SSH :
 - SSH compression : SSH-browser :
 - X11-forwarding : ✓ (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 Wed Oct 13 08:46:15 UTC 2021

System load: 0.23 Processes: 170 8.3% of 96.88GB Usage of /: Users logged in:

IP address for eth0: 172.31.16.72 Memory usage: 0%

Swap usage:

```
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: Wed Oct 13 08:38:52 2021 from 114.143.207.106
ubuntu@ip-172-31-16-72:~$ git clone https://github.com/CentaurusInfra/arktos.git
~/go/src/k8s.io/arktos
Cloning into '/home/ubuntu/go/src/k8s.io/arktos'...
remote: Enumerating objects: 104097, done.
remote: Counting objects: 100% (655/655), done.
remote: Compressing objects: 100% (429/429), done.
remote: Total 104097 (delta 292), reused 416 (delta 203), pack-reused 103442
Receiving objects: 100% (104097/104097), 208.39 MiB | 24.02 MiB/s, done.
Resolving deltas: 100% (62708/62708), done.
Checking out files: 100% (20761/20761), done.
ubuntu@ip-172-31-16-72:~$ sudo bash
$HOME/go/src/k8s.io/arktos/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 kB]
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64
Packages [8570 kB]
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 [2251 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
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 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted
Translation-en [63.2 kB]
Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages
[1141 kB]
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en
[261 kB]
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 4s (5504 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 (53.0 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-Oubuntu1~18.04.3) ...
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-Oubuntu1~18.04.3) ...
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 (56.7 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-lubuntu1~18.04) ...
Selecting previously unselected package libgomp1:amd64.
Preparing to unpack .../10-libgomp1_8.4.0-1ubuntu1~18.04_amd64.deb ...
Unpacking libgomp1:amd64 (8.4.0-1ubuntu1~18.04) ...
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_8.4.0-1ubuntu1~18.04_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 8.4.0-1ubuntu1~18.04 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_8.4.0-1ubuntu1~18.04_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 (8.4.0-1ubuntu1~18.04) ...
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:
  jq libjq1 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 (15.7 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.
--2021-10-13 08:51:52-- https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 142.251.33.78,
2607:f8b0:400a:80b::200e
Connecting to dl.google.com (dl.google.com)|142.251.33.78|: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 43.2MB/s
                                         in 2.6s
2021-10-13 08:51:55 (43.2 MB/s) - '/tmp/go1.13.9.linux-amd64.tar.gz' saved
[120139686/120139686]
Done.
Please run and add 'export PATH=$PATH:/usr/local/go/bin' into your shell
profile.
You can proceed to run arktos-up.sh if you want to launch a single-node cluster.
ubuntu@ip-172-31-16-72:~$ echo export PATH=$PATH:/usr/local/go/bin\ >>
~/.profile
ubuntu@ip-172-31-16-72:~$ echo cd \$HOME/go/src/k8s.io/arktos >> ~/.profile
ubuntu@ip-172-31-16-72:~$ source ~/.profile
ubuntu@ip-172-31-16-72:~/go/src/k8s.io/arktos$ ./hack/arktos-up.sh
DBG: Flannel CNI plugin will be installed AFTER cluster is up
DBG: effective feature gates
AllAlpha=false, WorkloadInfoDefaulting=true, QPSDoubleGCController=true, QPSDoubleR
SController=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-flat-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 bridge; arktos will use bridge to provision pod network
Ensuring firewall to allow traffic forward by default
-P FORWARD DROP
-P FORWARD ACCEPT
Ensuring minimum cni plugin installation...
installing cni plugin binaries
./
./flannel
./ptp
```

```
./host-local
./firewall
./portmap
./tuning
./vlan
./host-device
./bandwidth
./sbr
./static
./dhcp
./ipvlan
./macvlan
./loopback
./bridge
2021-10-13 08:53:49
URL: https://github-releases.githubusercontent.com/84575398/53318d00-bf61-11e9-9a
8f-40364582e9ed?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CS
VEH53A%2F20211013%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211013T085343Z&X-
Amz-Expires=300&X-Amz-Signature=22c50afbd2020cee2834b5ae0255122e74fc624fceea110c
0d2a32efcf18141f&X-Amz-SignedHeaders=host&actor id=0&key id=0&repo id=84575398&r
esponse-content-disposition=attachment%3B%20filename%3Dcni-plugins-linux-amd64-v
0.8.2.tgz&response-content-type=application%2Foctet-stream [36662740/36662740]
-> "-" [1]
setting up cni conf file...
copying /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf...
copied /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf
done with bridge cni plugin installation
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-gemu
--2021-10-13 08:53:49--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/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
in 0s
2021-10-13 08:53:49 (61.6 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]
Getting runtime deployment file libvirtd
--2021-10-13 08:53:49--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
```

```
deploy/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
========>] 1.58K --.-KB/s in 0s
2021-10-13 08:53:49 (24.8 MB/s) - '/tmp/libvirtd' saved [1617/1617]
Getting runtime deployment file virtlet
--2021-10-13 08:53:49--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/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
=======>] 2.52K --.-KB/s in 0s
2021-10-13 08:53:49 (39.4 MB/s) - '/tmp/virtlet' saved [2582/2582]
Getting runtime deployment file vms
--2021-10-13 08:53:49--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/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
2021-10-13 08:53:49 (31.7 MB/s) - '/tmp/vms' saved [485/485]
Getting runtime deployment file vmruntime.yaml
--2021-10-13 08:53:49--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
```

```
deploy/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
2021-10-13 08:53:49 (85.4 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]
Getting runtime deployment file images.yaml
--2021-10-13 08:53:49--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/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.vaml
========>] 254 --.-KB/s
                                       in 0s
2021-10-13 08:53:49 (14.4 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'
+++ [1013 08:53:57] Building go targets for linux/amd64:
   ./vendor/k8s.io/code-generator/cmd/deepcopy-gen
+++ [1013 08:53:57] Building go targets for linux/amd64:
    ./vendor/k8s.io/code-generator/cmd/defaulter-gen
+++ [1013 08:53:57] Building go targets for linux/amd64:
   ./vendor/k8s.io/code-generator/cmd/conversion-gen
+++ [1013 08:53:57] Building go targets for linux/amd64:
   ./vendor/k8s.io/kube-openapi/cmd/openapi-gen
+++ [1013 08:54:00] 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 3062 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 3062 and
retry the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to output/ArktosCopyrightTool.log
+++ [1013 08:54:23] 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 3062 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 3062 and
retry the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
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-lin
ux-amd64.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:/sbin:/usr/games:/usr/loc
al/games:/snap/bin:/usr/local/go/bin:/home/ubuntu/go/src/k8s.io/arktos/third_par
ty/etcd; downloading instead...
 % Total
            % Received % Xferd
                                Average Speed
                                                Time
                                                        Time
                                                                 Time Current
                                Dload Upload
                                                Total
                                                        Spent
                                                                 Left Speed
 а
       а
            а
                  а
                       0
                             0
                                    а
                                           0 --:--:--
100
      623 100
                623
                       0
                             0
                                 5822
                                           0 --:--:--
100 9.8M 100 9.8M
                                           0 --:--:- 25.1M
                       0
                             0
                                25.1M
            % Received % Xferd Average Speed
                                                                Time Current
 % Total
                                               Time
                                                        Time
```

```
Dload Upload Total
                                                    Spent
                                                            Left Speed
 0
       0
                           0
                                        0 --:--:--
            0
                 0
                      0
                                  0
                                        0 --:--:- 7646
100
     627 100
               627
                      0
                           0
                               7646
100 2224k 100 2224k
                      0
                           0
                              10.9M
                                        0 --:--:- 10.9M
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-172-31-16-72 --listen-peer-urls http://172.31.16.72:2380
--advertise-client-urls http://172.31.16.72:2379 --data-dir /tmp/tmp.SEdTXMvr1G
--listen-client-urls http://172.31.16.72:2379,http://127.0.0.1:2379
--listen-peer-urls http://172.31.16.72:2380 --debug > "/tmp/etcd.log"
2>/dev/null
Waiting for etcd to come up.
+++ [1013 08:56:55] On try 2, etcd: : {"health":"true"}
{"header":{"cluster_id":"14738034136704292327","member_id":"8407274997589823449"
,"revision":"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
140495882777024: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
139802379223488: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
140663469625792: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'
2021/10/13 08:56:56 [INFO] generate received request
2021/10/13 08:56:56 [INFO] received CSR
2021/10/13 08:56:56 [INFO] generating key: rsa-2048
2021/10/13 08:56:56 [INFO] encoded CSR
2021/10/13 08:56:56 [INFO] signed certificate with serial number
218702149526849866878055517136293551585573141796
```

```
2021/10/13 08:56:56 [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").
2021/10/13 08:56:56 [INFO] generate received request
2021/10/13 08:56:56 [INFO] received CSR
2021/10/13 08:56:56 [INFO] generating key: rsa-2048
2021/10/13 08:56:56 [INFO] encoded CSR
2021/10/13 08:56:56 [INFO] signed certificate with serial number
478175721470061678339770148488077558427405661192
2021/10/13 08:56:56 [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").
2021/10/13 08:56:56 [INFO] generate received request
2021/10/13 08:56:56 [INFO] received CSR
2021/10/13 08:56:56 [INFO] generating key: rsa-2048
2021/10/13 08:56:56 [INFO] encoded CSR
2021/10/13 08:56:56 [INFO] signed certificate with serial number
334210774263927450288406998435951457515535540651
2021/10/13 08:56:56 [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").
2021/10/13 08:56:56 [INFO] generate received request
2021/10/13 08:56:56 [INFO] received CSR
2021/10/13 08:56:56 [INFO] generating key: rsa-2048
2021/10/13 08:56:57 [INFO] encoded CSR
2021/10/13 08:56:57 [INFO] signed certificate with serial number
176317626693454001473441378750071390944256993764
2021/10/13 08:56:57 [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").
2021/10/13 08:56:57 [INFO] generate received request
2021/10/13 08:56:57 [INFO] received CSR
2021/10/13 08:56:57 [INFO] generating key: rsa-2048
2021/10/13 08:56:57 [INFO] encoded CSR
2021/10/13 08:56:57 [INFO] signed certificate with serial number
109877937011545695019853510822539292893252889080
2021/10/13 08:56:57 [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").
2021/10/13 08:56:57 [INFO] generate received request
2021/10/13 08:56:57 [INFO] received CSR
2021/10/13 08:56:57 [INFO] generating key: rsa-2048
2021/10/13 08:56:57 [INFO] encoded CSR
2021/10/13 08:56:58 [INFO] signed certificate with serial number
696306395649382321428488751548185832627706237838
2021/10/13 08:56:58 [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").
2021/10/13 08:56:58 [INFO] generate received request
2021/10/13 08:56:58 [INFO] received CSR
2021/10/13 08:56:58 [INFO] generating key: rsa-2048
2021/10/13 08:56:58 [INFO] encoded CSR
2021/10/13 08:56:58 [INFO] signed certificate with serial number
517191897926028968182526043932295311654821930731
2021/10/13 08:56:58 [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").
2021/10/13 08:56:58 [INFO] generate received request
2021/10/13 08:56:58 [INFO] received CSR
2021/10/13 08:56:58 [INFO] generating key: rsa-2048
2021/10/13 08:56:59 [INFO] encoded CSR
2021/10/13 08:56:59 [INFO] signed certificate with serial number
367350812843253451315728450798543924891483485808
2021/10/13 08:56:59 [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").
2021/10/13 08:56:59 [INFO] generate received request
2021/10/13 08:56:59 [INFO] received CSR
2021/10/13 08:56:59 [INFO] generating key: rsa-2048
2021/10/13 08:56:59 [INFO] encoded CSR
2021/10/13 08:56:59 [INFO] signed certificate with serial number
353500358249679492519111948798475761521365938669
2021/10/13 08:56:59 [WARNING] This certificate lacks a "hosts" field. This makes
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
+++ [1013 08:57:08] 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
2021/10/13 08:57:09 [INFO] generate received request
2021/10/13 08:57:09 [INFO] received CSR
2021/10/13 08:57:09 [INFO] generating key: rsa-2048
2021/10/13 08:57:09 [INFO] encoded CSR
2021/10/13 08:57:09 [INFO] signed certificate with serial number
494401332493440625951319921457830787998820546869
2021/10/13 08:57:09 [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.
2021/10/13 08:57:10 [INFO] generate received request
2021/10/13 08:57:10 [INFO] received CSR
2021/10/13 08:57:10 [INFO] generating key: rsa-2048
2021/10/13 08:57:10 [INFO] encoded CSR
2021/10/13 08:57:10 [INFO] signed certificate with serial number
564063944939988820027399372080147404872822806802
2021/10/13 08:57:10 [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 (29574) is running.
Create default storage class for
storageclass.storage.k8s.io/standard created
customresourcedefinition.apiextensions.k8s.io/networks.arktos.futurewei.com
created
*************
Setup Arktos components ...
ip-172-31-16-72
                 Ready
                         <none>
                                  1s
                                        v0.9.0
node/ip-172-31-16-72 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 AGE virtlet 0 0 0 0 0 <none>

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 2.2.1 from Kata Containers (katacontainers√) installed

* Checking Kata compatibility

No newer release available time="2021-10-13T08:57:24Z" level=error msg="CPU property not found" arch=amd64 description="Virtualization support" name=vmx pid=31733 source=runtime type=flag time="2021-10-13T08:57:24Z" 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=31733 source=runtime time="2021-10-13T08:57:24Z" level=error msg="kernel property not found" arch=amd64 description="Kernel-based Virtual Machine" name=kvm pid=31733 source=runtime type=module time="2021-10-13T08:57:24Z" 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=31733 source=runtime time="2021-10-13T08:57:24Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio" name=vhost pid=31733 source=runtime type=module time="2021-10-13T08:57:24Z" 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=31733 source=runtime time="2021-10-13T08:57:24Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio network" name=vhost_net pid=31733 source=runtime type=module time="2021-10-13T08:57:24Z" 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=31733 source=runtime time="2021-10-13T08:57:24Z" level=error msg="kernel property not found" arch=amd64 description="Host Support for Linux VM Sockets" name=vhost vsock pid=31733 source=runtime type=module time="2021-10-13T08:57:24Z" 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=31733 source=runtime time="2021-10-13T08:57:24Z" level=error msg="kernel property not found" arch=amd64 description="Intel KVM" name=kvm intel pid=31733 source=runtime type=module time="2021-10-13T08:57:24Z" level=error msg="ERROR: System is not capable of running Kata Containers" arch=amd64 name=kata-runtime pid=31733 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
Or
  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-172-31-16-72:6443
--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
```