

```
login as: ubuntu
Authenticating with public key "Imported-Openssh-Key:
C:\\Users\\amit.rahate\\Downloads\\amit-centaurus-awskeypair.pem"
```

```
• MobaXterm Personal Edition v21.3 •
(SSH client, X server and network tools)

→ SSH session to ubuntu@35.86.136.101
• 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 5.4.0-1045-aws x86_64)
```

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

```
System information as of Thu Oct 14 09:34:45 UTC 2021
```

```
System load:  0.0      Processes:      144
Usage of /:   0.9% of 125.96GB  Users logged in:  0
Memory usage: 0%      IP address for eth0: 172.31.31.86
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-172-31-31-86:~$ uname -a
Linux ip-172-31-31-86 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-172-31-31-86:~$ wget
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh
--2021-10-14 09:45:57--
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
```

```
100%[=====]  
==>] 791 --.-KB/s in 0s
```

```
2021-10-14 09:45:57 (37.4 MB/s) - 'kernelupdate.sh' saved [791/791]
```

```
ubuntu@ip-172-31-31-86:~$ sudo bash kernelupdate.sh
```

```
--2021-10-14 09:47:33--
```

```
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)... 52.217.193.97
```

```
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.193.97|: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
```

```
100%[=====]  
==>] 7.27M 6.03MB/s in 1.2s
```

```
2021-10-14 09:47:35 (6.03 MB/s) -
```

```
'./linux-5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved  
[7621020/7621020]
```

```
--2021-10-14 09:47:35--
```

```
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)... 52.217.33.84
```

```
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.33.84|: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
```

```
100%[=====]  
==>] 818.09M 21.0MB/s in 77s
```

```
2021-10-14 09:48:52 (10.7 MB/s) -
```

```
'./linux-5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb' saved  
[857827912/857827912]
```

```
--2021-10-14 09:48:52--
```

```
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb
```

```
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.242.164
```

```
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.216.242.164|: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

100%[=====]
==>] 53.81M 5.08MB/s in 12s

2021-10-14 09:49:04 (4.55 MB/s) -
'./linux-5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved
[56427036/56427036]

--2021-10-14 09:49:04--

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)... 52.216.10.139
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.216.10.139|: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

100%[=====]
==>] 1.03M 2.15MB/s in 0.5s

2021-10-14 09:49:05 (2.15 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 refused

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\\amit.rahate\\Downloads\\amit-centaurus-awskeypair.pem"

• MobaXterm Personal Edition v21.3 •
(SSH client, X server and network tools)

→ SSH session to **ubuntu@35.86.136.101**

- 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 Thu Oct 14 09:54:36 UTC 2021

System load: 0.33	Processes: 168
Usage of /: 6.4% of 125.96GB	Users logged in: 0
Memory usage: 0%	IP address for eth0: 172.31.31.86
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: Thu Oct 14 09:34:47 2021 from 114.143.207.106
ubuntu@ip-172-31-31-86:~$ uname -a
Linux ip-172-31-31-86 5.6.0-rc2 #1 SMP Tue Feb 25 18:54:05 UTC 2020 x86_64 x86_64 x86_64
GNU/Linux
ubuntu@ip-172-31-31-86:~$ 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: 61491, done.
remote: Counting objects: 100% (895/895), done.
remote: Compressing objects: 100% (526/526), done.
remote: Total 61491 (delta 495), reused 554 (delta 352), pack-reused 60596
Receiving objects: 100% (61491/61491), 221.46 MiB | 24.20 MiB/s, done.
Resolving deltas: 100% (37655/37655), done.
Checking out files: 100% (20761/20761), done.
ubuntu@ip-172-31-31-86:~$ cd ~/go/src/k8s.io/arktos
ubuntu@ip-172-31-31-86:~/go/src/k8s.io/arktos$ git fetch origin pull/6/head:pr6
remote: Enumerating objects: 23, done.
remote: Counting objects: 100% (23/23), done.
remote: Compressing objects: 100% (18/18), done.
remote: Total 23 (delta 13), reused 9 (delta 5), pack-reused 0
Unpacking objects: 100% (23/23), done.
From https://github.com/Click2Cloud-Centaurus/arktos
 * [new ref]          refs/pull/6/head -> pr6
ubuntu@ip-172-31-31-86:~/go/src/k8s.io/arktos$ git checkout pr6
Switched to branch 'pr6'
ubuntu@ip-172-31-31-86:~/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
kB]
Get:4 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages
[8570 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 [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 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 6s (4051 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 (50.8 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:
  make
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 (11.9 MB/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 (54.9 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 (8.4.0-1ubuntu1~18.04) ...
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 (13.3 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.
--2021-10-14 10:04:02-- https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 172.217.14.238, 2607:f8b0:400a:803::200e
Connecting to dl.google.com (dl.google.com)|172.217.14.238|: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
100%[=====
==>] 114.57M 47.4MB/s in 2.4s

2021-10-14 10:04:04 (47.4 MB/s) - '/tmp/go1.13.9.linux-amd64.tar.gz' saved
[120139686/120139686]

Done.
Please run and add 'export PATH=$PATH:/usr/local/go/bin' into your shell profile.
You can proceed to run arktos-up.sh if you want to launch a single-node cluster.
ubuntu@ip-172-31-31-86:~/go/src/k8s.io/arktos$ echo export
PATH=$PATH:/usr/local/go/bin\ >> ~/.profile
ubuntu@ip-172-31-31-86:~/go/src/k8s.io/arktos$ echo cd \${HOME}/go/src/k8s.io/arktos >>
~/.profile
ubuntu@ip-172-31-31-86:~/go/src/k8s.io/arktos$ source ~/.profile
ubuntu@ip-172-31-31-86:~/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/runtime/default_mizar_network.json
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...
--2021-10-14 10:10:54--
https://github.com/containerd/containerd/releases/download/v1.4.2/containerd-1.4.2-li
nux-amd64.tar.gz
Resolving github.com (github.com)... 192.30.255.113
Connecting to github.com (github.com)|192.30.255.113|: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=AKIAIWNNJYAX4CSVEH53A%2F20211
014%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211014T101054Z&X-Amz-Expires=300&X-A
mz-Signature=06147124bfe0f0b67e5a97d83683d6684fcd0661729be841300842ef925a4787&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]
--2021-10-14 10:10:54--
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-ed435a
7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20211
014%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211014T101054Z&X-Amz-Expires=300&X-A
mz-SignedHeaders=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)... 185.199.110.154, 185.199.109.154,
185.199.108.154, ...
Connecting to github-releases.githubusercontent.com
(github-releases.githubusercontent.com)|185.199.110.154|:443... connected.
HTTP request sent, awaiting response... 200 OK
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
100%[=====
==>] 29.72M 35.6MB/s in 0.8s

2021-10-14 10:10:55 (35.6 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
2021-10-14 10:11:11
URL:https://github-releases.githubusercontent.com/84575398/53318d00-bf61-11e9-9a8f-40
364582e9ed?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F2
0211014%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211014T101024Z&X-Amz-Expires=300
&X-Amz-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
--2021-10-14 10:11:11--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deplo
y/apparmor/libvirt-qemu
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133,
185.199.111.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.110.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 6578 (6.4K) [text/plain]
Saving to: '/tmp/libvirt-qemu'

```

```
/tmp/libvirt-qemu
100%[=====
==>] 6.42K --.-KB/s in 0s
```

2021-10-14 10:11:11 (58.9 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

```
Getting runtime deployment file libvirtd
--2021-10-14 10:11:11--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/libvirtd
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133,
185.199.108.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.109.133|: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
```

2021-10-14 10:11:11 (25.6 MB/s) - '/tmp/libvirtd' saved [1617/1617]

```
Getting runtime deployment file virtlet
--2021-10-14 10:11:11--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/virtlet
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133,
185.199.108.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.109.133|: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
```

2021-10-14 10:11:11 (47.7 MB/s) - '/tmp/virtlet' saved [2582/2582]

```
Getting runtime deployment file vms
--2021-10-14 10:11:11--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/vms
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133,
185.199.108.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.109.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 485 [text/plain]
Saving to: '/tmp/vms'
```

```
/tmp/vms
```

```
100%[=====
==>]      485  --.-KB/s    in 0s
```

2021-10-14 10:11:11 (28.1 MB/s) - '/tmp/vms' saved [485/485]

Getting runtime deployment file vmruntime.yaml

--2021-10-14 10:11:11--

https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/data/virtlet-ds.yaml

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133, 185.199.108.133, 185.199.111.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.109.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 11643 (11K) [text/plain]

Saving to: '/tmp/vmruntime.yaml'

/tmp/vmruntime.yaml

```
100%[=====
==>]    11.37K  --.-KB/s    in 0s
```

2021-10-14 10:11:11 (45.5 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]

Getting runtime deployment file images.yaml

--2021-10-14 10:11:11--

https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/images.yaml

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133, 185.199.108.133, 185.199.111.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.109.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 254 [text/plain]

Saving to: '/tmp/images.yaml'

/tmp/images.yaml

```
100%[=====
==>]      254  --.-KB/s    in 0s
```

2021-10-14 10:11:11 (13.9 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'

+++ [1014 10:11:18] Building go targets for linux/amd64:

./vendor/k8s.io/code-generator/cmd/deepcopy-gen

+++ [1014 10:11:18] Building go targets for linux/amd64:

./vendor/k8s.io/code-generator/cmd/defaulter-gen

+++ [1014 10:11:18] Building go targets for linux/amd64:

./vendor/k8s.io/code-generator/cmd/conversion-gen

+++ [1014 10:11:18] Building go targets for linux/amd64:

./vendor/k8s.io/kube-openapi/cmd/openapi-gen

+++ [1014 10:11:22] Building go targets for linux/amd64:

./vendor/github.com/go-bindata/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 3063 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 3063 and retry
the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
+++ [1014 10:11:44] Building go targets for linux/amd64:
  cmd/kubect1
  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 3063 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 3063 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-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:/sbin:/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	Average Speed	Time	Time	Time	Current
			Dload Upload	Total	Spent	Left	Speed
0	0	0	0	0	--:--:--	--:--:--	0
100	623	100	5933	0	--:--:--	--:--:--	5933
100	9.8M	100	21.7M	0	--:--:--	--:--:--	28.7M

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload Upload	Total	Spent	Left	Speed
0	0	0	0	0	--:--:--	--:--:--	0
100	627	100	7376	0	--:--:--	--:--:--	7376
100	2224k	100	10.8M	0	--:--:--	--:--:--	10.8M

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-172-31-31-86 --listen-peer-urls http://172.31.31.86:2380
--advertise-client-urls http://172.31.31.86:2379 --data-dir /tmp/tmp.JwWieLr9cB
--listen-client-urls http://172.31.31.86:2379,http://127.0.0.1:2379 --listen-peer-urls
http://172.31.31.86:2380 --debug > "/tmp/etcd.log" 2>/dev/null
Waiting for etcd to come up.
+++ [1014 10:14:10] On try 2, etcd: : {"health":"true"}
{"header":{"cluster_id":"259200108416040817","member_id":"6040940436113288572","revis
ion":"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
140606600257984: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
139782388011456: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
139990937543104: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'
-----
2021/10/14 10:14:11 [INFO] generate received request
2021/10/14 10:14:11 [INFO] received CSR
2021/10/14 10:14:11 [INFO] generating key: rsa-2048
```

2021/10/14 10:14:11 [INFO] encoded CSR
2021/10/14 10:14:11 [INFO] signed certificate with serial number
691795479684921442347066057987136671401158139907
2021/10/14 10:14:11 [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").
2021/10/14 10:14:11 [INFO] generate received request
2021/10/14 10:14:11 [INFO] received CSR
2021/10/14 10:14:11 [INFO] generating key: rsa-2048
2021/10/14 10:14:11 [INFO] encoded CSR
2021/10/14 10:14:11 [INFO] signed certificate with serial number
9594453751391062120496490593623582822405280822
2021/10/14 10:14:11 [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").
2021/10/14 10:14:11 [INFO] generate received request
2021/10/14 10:14:11 [INFO] received CSR
2021/10/14 10:14:11 [INFO] generating key: rsa-2048
2021/10/14 10:14:12 [INFO] encoded CSR
2021/10/14 10:14:12 [INFO] signed certificate with serial number
580286832211965111649970885176426542415157005962
2021/10/14 10:14:12 [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").
2021/10/14 10:14:12 [INFO] generate received request
2021/10/14 10:14:12 [INFO] received CSR
2021/10/14 10:14:12 [INFO] generating key: rsa-2048
2021/10/14 10:14:12 [INFO] encoded CSR
2021/10/14 10:14:12 [INFO] signed certificate with serial number
587867623124248664110233023299098205556923698571
2021/10/14 10:14:12 [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").
2021/10/14 10:14:12 [INFO] generate received request
2021/10/14 10:14:12 [INFO] received CSR
2021/10/14 10:14:12 [INFO] generating key: rsa-2048
2021/10/14 10:14:12 [INFO] encoded CSR
2021/10/14 10:14:12 [INFO] signed certificate with serial number
504420029269889399874655687344145056739195838469

2021/10/14 10:14:12 [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").

2021/10/14 10:14:12 [INFO] generate received request

2021/10/14 10:14:12 [INFO] received CSR

2021/10/14 10:14:12 [INFO] generating key: rsa-2048

2021/10/14 10:14:12 [INFO] encoded CSR

2021/10/14 10:14:12 [INFO] signed certificate with serial number 535669650441975572289257055908166626455137114579

2021/10/14 10:14:12 [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").

2021/10/14 10:14:12 [INFO] generate received request

2021/10/14 10:14:12 [INFO] received CSR

2021/10/14 10:14:12 [INFO] generating key: rsa-2048

2021/10/14 10:14:12 [INFO] encoded CSR

2021/10/14 10:14:12 [INFO] signed certificate with serial number 469854688994615870622689636893776615025631261733

2021/10/14 10:14:12 [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").

2021/10/14 10:14:13 [INFO] generate received request

2021/10/14 10:14:13 [INFO] received CSR

2021/10/14 10:14:13 [INFO] generating key: rsa-2048

2021/10/14 10:14:13 [INFO] encoded CSR

2021/10/14 10:14:13 [INFO] signed certificate with serial number 69931949922793722987812436231446781537507007463

2021/10/14 10:14:13 [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").

2021/10/14 10:14:13 [INFO] generate received request

2021/10/14 10:14:13 [INFO] received CSR

2021/10/14 10:14:13 [INFO] generating key: rsa-2048

2021/10/14 10:14:13 [INFO] encoded CSR

2021/10/14 10:14:13 [INFO] signed certificate with serial number 313775827843194803733418896818989114403235721788

2021/10/14 10:14:13 [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

+++ [1014 10:14:23] 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

2021/10/14 10:14:23 [INFO] generate received request

2021/10/14 10:14:23 [INFO] received CSR

2021/10/14 10:14:23 [INFO] generating key: rsa-2048

2021/10/14 10:14:24 [INFO] encoded CSR

2021/10/14 10:14:24 [INFO] signed certificate with serial number

21080793978966571949195676579215004565104953348

2021/10/14 10:14:24 [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.

2021/10/14 10:14:24 [INFO] generate received request

2021/10/14 10:14:24 [INFO] received CSR

2021/10/14 10:14:24 [INFO] generating key: rsa-2048

2021/10/14 10:14:24 [INFO] encoded CSR

2021/10/14 10:14:24 [INFO] signed certificate with serial number

602433775406521720226048180017376284708713961036

2021/10/14 10:14:24 [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 (9478) 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

[illegible]

[illegible]

```

Waiting for node ready at api server
ip-172-31-31-86   Ready   <none>   5m43s   v0.9.0
node/ip-172-31-31-86 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>	0s

```

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="2021-10-14T10:20:25Z" level=error msg="CPU property not
found" arch=amd64 description="Virtualization support" name=vmx pid=31428 source=runtime
type=flag time="2021-10-14T10:20:25Z" 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=31428 source=runtime time="2021-10-14T10:20:25Z" level=error
msg="kernel property not found" arch=amd64 description="Kernel-based Virtual Machine"
name=kvm pid=31428 source=runtime type=module time="2021-10-14T10:20:25Z" 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=31428 source=runtime
time="2021-10-14T10:20:25Z" level=error msg="kernel property not found" arch=amd64
description="Host kernel accelerator for virtio" name=vhost pid=31428 source=runtime
type=module time="2021-10-14T10:20:25Z" 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=31428 source=runtime time="2021-10-14T10:20:25Z" level=error
msg="kernel property not found" arch=amd64 description="Host kernel accelerator for
virtio network" name=vhost_net pid=31428 source=runtime type=module
time="2021-10-14T10:20:25Z" 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=31428 source=runtime time="2021-10-14T10:20:25Z" level=error
msg="kernel property not found" arch=amd64 description="Host Support for Linux VM Sockets"
name=vhost_vsock pid=31428 source=runtime type=module time="2021-10-14T10:20:25Z"
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=31428
source=runtime time="2021-10-14T10:20:25Z" level=error msg="kernel property not found"
arch=amd64 description="Intel KVM" name=kvm_intel pid=31428 source=runtime type=module
time="2021-10-14T10:20:25Z" level=error msg="ERROR: System is not capable of running Kata
Containers" arch=amd64 name=kata-runtime pid=31428 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/kubect1.sh
```

Alternatively, you can write to the default kubeconfig:

```
export KUBERNETES_PROVIDER=local
```

```
cluster/kubect1.sh config set-cluster local --server=https://ip-172-31-31-86:6443
```

```
--certificate-authority=/var/run/kubernetes/server-ca.crt
```

```
cluster/kubect1.sh config set-credentials myself
```

```
--client-key=/var/run/kubernetes/client-admin.key
```

```
--client-certificate=/var/run/kubernetes/client-admin.crt
```

```
cluster/kubect1.sh config set-context local --cluster=local --user=myself
```

```
cluster/kubect1.sh config use-context local
```

```
cluster/kubect1.sh
```