

```
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@54.188.1.160
• 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 Fri Oct 22 10:49:41 UTC 2021
```

```
System load: 0.0          Processes:            144
Usage of /: 0.9% of 124.02GB Users logged in:      0
Memory usage: 0%          IP address for eth0: 172.31.29.159
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-172-31-29-159:~$ uname -a
Linux ip-172-31-29-159 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-172-31-29-159:~$ wget
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh
--2021-10-22 11:00:24--
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133,
185.199.110.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
```

```
(raw.githubusercontent.com)|185.199.109.133|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 791 [text/plain]  
Saving to: 'kernelupdate.sh'
```

```
kernelupdate.sh
```

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

```
2021-10-22 11:00:24 (35.6 MB/s) - 'kernelupdate.sh' saved [791/791]
```

```
ubuntu@ip-172-31-29-159:~$ sudo bash kernelupdate.sh
```

```
--2021-10-22 11:01:08--
```

```
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)... 52.217.90.180
```

```
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.90.180|: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.d
```

```
100%[=====]  
=====>] 7.27M 4.78MB/s in 1.5s
```

```
2021-10-22 11:01:10 (4.78 MB/s) -
```

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

```
--2021-10-22 11:01:10--
```

```
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)... 52.217.17.132
```

```
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.17.132|: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
```

```
100%[=====]  
=====>] 818.09M 9.95MB/s in 1m 47s
```

```
2021-10-22 11:02:57 (7.67 MB/s) -
```

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

```
--2021-10-22 11:02:57--
```

```
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)... 52.216.77.244
```

```
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.216.77.244|: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
100%[=====]
=====>] 53.81M 6.07MB/s in 9.2s

2021-10-22 11:03:06 (5.85 MB/s) -
'./linux-5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved
[56427036/56427036]

--2021-10-22 11:03:06--
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)... 52.216.109.19
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.216.109.19|: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 1.96MB/s in 0.5s

2021-10-22 11:03:07 (1.96 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@54.188.1.160**

- 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 Fri Oct 22 11:37:36 UTC 2021

System load:	1.24	Processes:	167
Usage of /:	6.5% of 124.02GB	Users logged in:	0
Memory usage:	0%	IP address for eth0:	172.31.29.159
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: Fri Oct 22 10:49:43 2021 from 114.143.207.106

ubuntu@ip-172-31-29-159:~\$ uname -a

Linux ip-172-31-29-159 5.6.0-rc2 #1 SMP Tue Feb 25 18:54:05 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux

ubuntu@ip-172-31-29-159:~\$ 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: 61548, done.

remote: Counting objects: 100% (952/952), done.

remote: Compressing objects: 100% (553/553), done.

remote: Total 61548 (delta 535), reused 602 (delta 382), pack-reused 60596

Receiving objects: 100% (61548/61548), 221.37 MiB | 25.74 MiB/s, done.

Resolving deltas: 100% (37771/37771), done.

Checking out files: 100% (20761/20761), done.

ubuntu@ip-172-31-29-159:~\$ cd ~/go/src/k8s.io/arktos

ubuntu@ip-172-31-29-159:~/go/src/k8s.io/arktos\$ git checkout default-cni-mizar
Branch 'default-cni-mizar' set up to track remote branch 'default-cni-mizar' from 'origin'.

Switched to a new branch 'default-cni-mizar'

ubuntu@ip-172-31-29-159:~/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://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 [2277 kB]

Get:10 <http://us-west-2.ec2.archive.ubuntu.com/ubuntu> bionic-updates/main Translation-en [442 kB]

Get:11 <http://us-west-2.ec2.archive.ubuntu.com/ubuntu> bionic-updates/restricted amd64 Packages [513 kB]

Get:12 <http://us-west-2.ec2.archive.ubuntu.com/ubuntu> bionic-updates/restricted Translation-en [69.7 kB]

Get:13 <http://us-west-2.ec2.archive.ubuntu.com/ubuntu> bionic-updates/universe amd64 Packages [1758 kB]

Get:14 <http://us-west-2.ec2.archive.ubuntu.com/ubuntu> bionic-updates/universe Translation-en [378 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 [1930 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [348 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [487 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [65.7 kB]
Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1144 kB]
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [262 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 23.8 MB in 6s (3906 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 2s (48.5 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 (15.4 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 (57.1 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 (22.0 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.
--2021-10-22 11:46:18-- https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 142.251.33.110, 2607:f8b0:400a:806::200e
Connecting to dl.google.com (dl.google.com)|142.251.33.110|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 120139686 (115M) [application/octet-stream]
Saving to: '/tmp/go1.13.9.linux-amd64.tar.gz'

go1.13.9.linux-amd64.tar.gz
100%[=====
=====>] 114.57M  32.8MB/s   in 5.1s

2021-10-22 11:46:23 (22.4 MB/s) - '/tmp/go1.13.9.linux-amd64.tar.gz' saved
[120139686/120139686]

Done.
Please run and add 'export PATH=$PATH:/usr/local/go/bin' into your shell profile.
You can proceed to run arktos-up.sh if you want to launch a single-node cluster.
ubuntu@ip-172-31-29-159:~/go/src/k8s.io/arktos$ echo export
PATH=$PATH:/usr/local/go/bin\ >> ~/.profile
ubuntu@ip-172-31-29-159:~/go/src/k8s.io/arktos$ echo cd \$HOME/go/src/k8s.io/arktos >>
~/.profile
ubuntu@ip-172-31-29-159:~/go/src/k8s.io/arktos$ source ~/.profile
ubuntu@ip-172-31-29-159:~/go/src/k8s.io/arktos$ CNIPLUGIN=mizar ./hack/arktos-up.sh
DBG: mizar CNI plugin will be installed AFTER cluster is up
DBG: effective feature gates
AllAlpha=false,WorkloadInfoDefaulting=true,QPSDoubleGCController=true,QPSDoubleRSCont
roller=true,MandatoryArktosNetwork=true
DBG: effective disabling admission plugins
DBG: effective default network template file is
/home/ubuntu/go/src/k8s.io/arktos/hack/testdata/default-mizar-network.tmpl
DBG: kubelet arg RESOLV_CONF is /run/systemd/resolve/resolv.conf
WARNING : The kubelet is configured to not fail even if swap is enabled; production
deployments should disable swap.
WARNING : This script MAY be run as root for docker socket / iptables functionality; if
failures occur, retry as root.
cni plugin is mizar; arktos will use mizar to provision pod network
Checking arktos containerd...
arktos containerd not found...
--2021-10-22 11:51:44--
https://github.com/containerd/containerd/releases/download/v1.4.2/containerd-1.4.2-li
nux-amd64.tar.gz
Resolving github.com (github.com)... 192.30.255.112
Connecting to github.com (github.com)|192.30.255.112|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location:
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-ed435a
7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20211
022%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211022T115144Z&X-Amz-Expires=300&X-A
mz-Signature=76f35cad990abd53918b691a3fb20d3bb1c3f05677147c99f175e5f2eb3be425&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]
--2021-10-22 11:51:44--

```

https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-ed435a7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20211022%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211022T115144Z&X-Amz-Expires=300&X-Amz-Signature=76f35cad990abd53918b691a3fb20d3bb1c3f05677147c99f175e5f2eb3be425&X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=46089560&response-content-disposition=attachment%3B%20filename%3Dcontainerd-1.4.2-linux-amd64.tar.gz&response-content-type=application%2Foctet-stream

Resolving github-releases.githubusercontent.com

(github-releases.githubusercontent.com)... 185.199.109.154, 185.199.108.154, 185.199.111.154, ...

Connecting to github-releases.githubusercontent.com

(github-releases.githubusercontent.com)|185.199.109.154|: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 49.6MB/s in 0.6s

2021-10-22 11:51:45 (49.6 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

2021-10-22 11:52:02

URL:https://github-releases.githubusercontent.com/84575398/53318d00-bf61-11e9-9a8f-40364582e9ed?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20211022%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211022T115200Z&X-Amz-Expires=300&X-Amz-Signature=d47a6aa3a7d0d39f5e75c900d5fbf8a11e83235538971bcc503a1a3971e8a8e2&X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=84575398&response-content-disposition=attachment%3B%20filename%3Dcni-plugins-linux-amd64-v0.8.2.tgz&response-content-type=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

--2021-10-22 11:52:02--

https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/deploy/apparmor/libvirt-qemu

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.110.133, 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

2021-10-22 11:52:02 (52.2 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

Getting runtime deployment file libvirtd

--2021-10-22 11:52:02--

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

2021-10-22 11:52:02 (20.4 MB/s) - '/tmp/libvirtd' saved [1617/1617]

Getting runtime deployment file virtlet

--2021-10-22 11:52:02--

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

2021-10-22 11:52:03 (32.4 MB/s) - '/tmp/virtlet' saved [2582/2582]

Getting runtime deployment file vms

--2021-10-22 11:52:03--

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

2021-10-22 11:52:03 (23.6 MB/s) - '/tmp/vms' saved [485/485]

```
Getting runtime deployment file  vmruntime.yaml
--2021-10-22 11:52:03--
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
```

2021-10-22 11:52:03 (69.0 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]

```
Getting runtime deployment file  images.yaml
--2021-10-22 11:52:03--
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
```

2021-10-22 11:52:03 (12.8 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'
+++ [1022 11:52:10] Building go targets for linux/amd64:
./vendor/k8s.io/code-generator/cmd/deepcopy-gen
+++ [1022 11:52:10] Building go targets for linux/amd64:
./vendor/k8s.io/code-generator/cmd/conversion-gen
+++ [1022 11:52:10] Building go targets for linux/amd64:
./vendor/k8s.io/kube-openapi/cmd/openapi-gen
+++ [1022 11:52:10] Building go targets for linux/amd64:
./vendor/k8s.io/code-generator/cmd/defaulter-gen
+++ [1022 11:52:14] 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 3064 and retry the command.

~/go/src/k8s.io/arktos

~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos

warning: inexact rename detection was skipped due to too many files.

warning: you may want to set your diff.renameLimit variable to at least 3064 and retry the command.

~/go/src/k8s.io/arktos

Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.

+++ [1022 11:52:36] 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 3064 and retry the command.

~/go/src/k8s.io/arktos

~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos

warning: inexact rename detection was skipped due to too many files.

warning: you may want to set your diff.renameLimit variable to at least 3064 and retry the command.

~/go/src/k8s.io/arktos

Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.

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-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:/bin:/usr/games:/usr/local/games:/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	623	0	0	--:--:--	2265


```

100  9.8M  100  9.8M    0    0  12.7M    0 --:--:-- --:--:-- --:--:-- 73.7M
   % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                   Dload  Upload   Total      Spent      Left   Speed
    0     0    0     0    0     0     0     0 --:--:-- --:--:-- --:--:--    0
100  627  100  627    0     0  2449     0 --:--:-- --:--:-- --:--:--  2449
100 2224k 100 2224k    0     0 4753k     0 --:--:-- --:--:-- --:--:-- 4753k
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-172-31-29-159 --listen-peer-urls http://172.31.29.159:2380
--advertise-client-urls http://172.31.29.159:2379 --data-dir /tmp/tmp.OTBYaQ5xI1
--listen-client-urls http://172.31.29.159:2379,http://127.0.0.1:2379
--listen-peer-urls http://172.31.29.159:2380 --debug > "/tmp/etcd.log" 2>/dev/null
Waiting for etcd to come up.
+++ [1022 11:55:01] On try 2, etcd: : {"health":"true"}
{"header":{"cluster_id":"3739034744448728708","member_id":"13589413388736938772","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
140215732076992: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
140108719079872: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
140357278798272: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'
-----
2021/10/22 11:55:02 [INFO] generate received request
2021/10/22 11:55:02 [INFO] received CSR
2021/10/22 11:55:02 [INFO] generating key: rsa-2048
2021/10/22 11:55:02 [INFO] encoded CSR
2021/10/22 11:55:02 [INFO] signed certificate with serial number
157745304948329053872357325909164938767412605517
2021/10/22 11:55:02 [WARNING] This certificate lacks a "hosts" field. This makes it

```

unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:02 [INFO] generate received request
2021/10/22 11:55:02 [INFO] received CSR
2021/10/22 11:55:02 [INFO] generating key: rsa-2048
2021/10/22 11:55:02 [INFO] encoded CSR
2021/10/22 11:55:02 [INFO] signed certificate with serial number
299561098746635547264697953202226671013503216273
2021/10/22 11:55:02 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:02 [INFO] generate received request
2021/10/22 11:55:02 [INFO] received CSR
2021/10/22 11:55:02 [INFO] generating key: rsa-2048
2021/10/22 11:55:03 [INFO] encoded CSR
2021/10/22 11:55:03 [INFO] signed certificate with serial number
614633127457749409226813578720296354359393249774
2021/10/22 11:55:03 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:03 [INFO] generate received request
2021/10/22 11:55:03 [INFO] received CSR
2021/10/22 11:55:03 [INFO] generating key: rsa-2048
2021/10/22 11:55:03 [INFO] encoded CSR
2021/10/22 11:55:03 [INFO] signed certificate with serial number
632999860253251748809121790210102750516806111171
2021/10/22 11:55:03 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:03 [INFO] generate received request
2021/10/22 11:55:03 [INFO] received CSR
2021/10/22 11:55:03 [INFO] generating key: rsa-2048
2021/10/22 11:55:03 [INFO] encoded CSR
2021/10/22 11:55:03 [INFO] signed certificate with serial number
616071674195273660803717663168044259950311062349
2021/10/22 11:55:03 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management

of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:03 [INFO] generate received request
2021/10/22 11:55:03 [INFO] received CSR
2021/10/22 11:55:03 [INFO] generating key: rsa-2048
2021/10/22 11:55:03 [INFO] encoded CSR
2021/10/22 11:55:03 [INFO] signed certificate with serial number
358258121552973599365683432368282542836740777613
2021/10/22 11:55:03 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:03 [INFO] generate received request
2021/10/22 11:55:03 [INFO] received CSR
2021/10/22 11:55:03 [INFO] generating key: rsa-2048
2021/10/22 11:55:04 [INFO] encoded CSR
2021/10/22 11:55:04 [INFO] signed certificate with serial number
292109407018030401150761056361199777934874947606
2021/10/22 11:55:04 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:04 [INFO] generate received request
2021/10/22 11:55:04 [INFO] received CSR
2021/10/22 11:55:04 [INFO] generating key: rsa-2048
2021/10/22 11:55:04 [INFO] encoded CSR
2021/10/22 11:55:04 [INFO] signed certificate with serial number
672313453746956279211155513427047754090490272728
2021/10/22 11:55:04 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/22 11:55:04 [INFO] generate received request
2021/10/22 11:55:04 [INFO] received CSR
2021/10/22 11:55:04 [INFO] generating key: rsa-2048
2021/10/22 11:55:04 [INFO] encoded CSR
2021/10/22 11:55:04 [INFO] signed certificate with serial number
421768602254926297952997364799009594292156839004
2021/10/22 11:55:04 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").

```

Waiting for apiserver to come up
+++ [1022 11:55:14] 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
2021/10/22 11:55:15 [INFO] generate received request
2021/10/22 11:55:15 [INFO] received CSR
2021/10/22 11:55:15 [INFO] generating key: rsa-2048
2021/10/22 11:55:15 [INFO] encoded CSR
2021/10/22 11:55:15 [INFO] signed certificate with serial number
111102575090590236201273518367240223201163050153
2021/10/22 11:55:15 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
service/kube-dns created
serviceaccount/kube-dns created
configmap/kube-dns created
deployment.apps/kube-dns created
Kube-dns addon successfully deployed.
2021/10/22 11:55:15 [INFO] generate received request
2021/10/22 11:55:15 [INFO] received CSR
2021/10/22 11:55:15 [INFO] generating key: rsa-2048
2021/10/22 11:55:16 [INFO] encoded CSR
2021/10/22 11:55:16 [INFO] signed certificate with serial number
412669456738974784249349663152656122806382023178
2021/10/22 11:55:16 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
kubelet ( 9549 ) is running.
customresourcedefinition.apiextensions.k8s.io/bouncers.mizar.com created
customresourcedefinition.apiextensions.k8s.io/dividers.mizar.com created
customresourcedefinition.apiextensions.k8s.io/droplets.mizar.com created
customresourcedefinition.apiextensions.k8s.io/endpoints.mizar.com created
customresourcedefinition.apiextensions.k8s.io/subnets.mizar.com created
customresourcedefinition.apiextensions.k8s.io/vpcs.mizar.com created
serviceaccount/mizar-operator created
clusterrolebinding.rbac.authorization.k8s.io/mizar-operator created
daemonset.apps/mizar-daemon created
deployment.apps/mizar-operator created
Create default storage class for
storageclass.storage.k8s.io/standard created
customresourcedefinition.apiextensions.k8s.io/networks.arktos.futurewei.com created
*****
Setup Arktos components ...

Waiting for node ready at api server

```

[illegible]

[illegible]

```

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 2.2.2 from Kata Containers (katacontainers✓) installed

* Checking Kata compatibility

No newer release available time="2021-10-22T12:01:14Z" level=error msg="CPU property not found" arch=amd64 description="Virtualization support" name=vmx pid=30832 source=runtime type=flag time="2021-10-22T12:01:14Z" 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=30832 source=runtime time="2021-10-22T12:01:14Z" level=error msg="kernel property not found" arch=amd64 description="Kernel-based Virtual Machine" name=kvm pid=30832 source=runtime type=module time="2021-10-22T12:01:14Z" 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=30832 source=runtime time="2021-10-22T12:01:14Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio" name=vhost pid=30832 source=runtime type=module time="2021-10-22T12:01:14Z" 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=30832 source=runtime time="2021-10-22T12:01:14Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio network" name=vhost_net pid=30832 source=runtime type=module time="2021-10-22T12:01:14Z" 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=30832 source=runtime time="2021-10-22T12:01:14Z" level=error msg="kernel property not found" arch=amd64 description="Host Support for Linux VM Sockets" name=vhost_vsock pid=30832 source=runtime type=module time="2021-10-22T12:01:14Z" 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=30832 source=runtime time="2021-10-22T12:01:14Z" level=error msg="kernel property not found" arch=amd64 description="Intel KVM" name=kvm_intel pid=30832 source=runtime type=module time="2021-10-22T12:01:14Z" level=error msg="ERROR: System is not capable of running Kata Containers" arch=amd64 name=kata-runtime pid=30832 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-172-31-29-159:6443  
--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
```