

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

```
      • MobaXterm Professional v21.0 •  
      (SSH client, X server and network tools)  
  
➤ SSH session to ubuntu@54.218.59.120  
  • Direct SSH      : ✓  
  • SSH compression : ✓  
  • SSH-browser     : ✓  
  • X11-forwarding  : ✓ (remote display is forwarded through SSH)  
  
➤ For more info, ctrl+click on help or visit our website.
```

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

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

System information as of Wed Oct 13 08:38:32 UTC 2021

System load:	0.56	Processes:	200
Usage of /:	1.2% of 96.88GB	Users logged in:	0
Memory usage:	0%	IP address for eth0:	172.31.20.46
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-172-31-20-46:~$ uname -a  
Linux ip-172-31-20-46 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-172-31-20-46:~$ wget  
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh  
--2021-10-13 08:39:23--  
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh  
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: 791 [text/plain]  
Saving to: 'kernelupdate.sh'
```

```
kernelupdate.sh
```

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

```
2021-10-13 08:39:23 (37.0 MB/s) - 'kernelupdate.sh' saved [791/791]
```

```
ubuntu@ip-172-31-20-46:~$ sudo bash kernelupdate.sh
```

```
--2021-10-13 08:39:24--
```

```
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)... 52.216.112.35
```

```
Connecting to mizar.s3.amazonaws.com
```

```
(mizar.s3.amazonaws.com)|52.216.112.35|:443... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 7621020 (7.3M) []
```

```
Saving to: '../linux-5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64.deb'
```

```
linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64.de
```

```
100%[=====]  
=====>]    7.27M  5.17MB/s    in 1.4s
```

```
2021-10-13 08:39:26 (5.17 MB/s) - '../linux-  
5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved [7621020/7621020]
```

```
--2021-10-13 08:39:26--
```

```
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)... 52.217.196.41
```

```
Connecting to mizar.s3.amazonaws.com
```

```
(mizar.s3.amazonaws.com)|52.217.196.41|: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  4.32MB/s    in 1m 42s
```

```
2021-10-13 08:41:09 (8.01 MB/s) - '../linux-  
5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb' saved  
[857827912/857827912]
```

```
--2021-10-13 08:41:09--
```

```
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_a  
md64.deb
```

```
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.30.36
```

```
Connecting to mizar.s3.amazonaws.com
```

```
(mizar.s3.amazonaws.com)|52.216.30.36|: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 6.92MB/s in 8.3s

2021-10-13 08:41:17 (6.50 MB/s) - '../linux-
5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved [56427036/56427036]

--2021-10-13 08:41:17--

https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-libc-dev_5.6.0-rc2-1_amd64.de
b

Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.217.200.105

Connecting to mizar.s3.amazonaws.com

(mizar.s3.amazonaws.com)|52.217.200.105|: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 2.61MB/s in 0.4s

2021-10-13 08:41:18 (2.61 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

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

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

➤ SSH session to ubuntu@54.218.59.120
  . Direct SSH      : ✓
  . SSH compression : ✓
  . SSH-browser     : ✓
  . X11-forwarding  : ✓ (remote display is forwarded through SSH)

➤ For more info, ctrl+click on help or visit our website.
```

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.6.0-rc2 x86_64)

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

System information as of Wed Oct 13 08:45:00 UTC 2021

```
System load:  0.41           Processes:            167
Usage of /:   8.3% of 96.88GB Users logged in:       0
Memory usage: 0%            IP address for eth0: 172.31.20.46
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: Wed Oct 13 08:38:33 2021 from 114.143.207.106
ubuntu@ip-172-31-20-46:~$ git clone https://github.com/CentaurusInfra/arktos.git
~/go/src/k8s.io/arktos
Cloning into '/home/ubuntu/go/src/k8s.io/arktos'...
```

```
remote: Enumerating objects: 104097, done.
remote: Counting objects: 100% (655/655), done.
remote: Compressing objects: 100% (438/438), done.
remote: Total 104097 (delta 290), reused 381 (delta 194), pack-reused 103442
Receiving objects: 100% (104097/104097), 208.18 MiB | 25.95 MiB/s, done.
Resolving deltas: 100% (62784/62784), done.
Checking out files: 100% (20761/20761), done.
ubuntu@ip-172-31-20-46:~$ sudo bash
$HOME/go/src/k8s.io/arktos/hack/setup-dev-node.sh
The script is to help install prerequisites of Arktos development environment
on a fresh Linux installation.
It's been tested on Ubuntu 16.04 LTS and 18.04 LTS.
Update apt.
Hit:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease
[88.7 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease
[74.6 kB]
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64
Packages [8570 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe
Translation-en [4941 kB]
Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64
Packages [151 kB]
Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse
Translation-en [108 kB]
Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
Packages [2251 kB]
Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main
Translation-en [438 kB]
Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted
amd64 Packages [493 kB]
Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted
Translation-en [66.9 kB]
Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe
amd64 Packages [1756 kB]
Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe
Translation-en [377 kB]
Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse
amd64 Packages [27.3 kB]
Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse
Translation-en [6808 B]
Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main
amd64 Packages [10.0 kB]
Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/main
Translation-en [4764 B]
Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe
amd64 Packages [10.3 kB]
Get:20 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe
Translation-en [4588 B]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages
[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 (4014 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 (47.7 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 (14.9 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 (54.0 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 (19.2 MB/s)
Selecting previously unselected package libonig4:amd64.
(Reading database ... 92426 files and directories currently installed.)
Preparing to unpack .../libonig4_6.7.0-1_amd64.deb ...
Unpacking libonig4:amd64 (6.7.0-1) ...
Selecting previously unselected package libjq1:amd64.
Preparing to unpack .../libjq1_1.5+dfsg-2_amd64.deb ...
Unpacking libjq1:amd64 (1.5+dfsg-2) ...
Selecting previously unselected package jq.
Preparing to unpack .../jq_1.5+dfsg-2_amd64.deb ...
Unpacking jq (1.5+dfsg-2) ...
Setting up libonig4:amd64 (6.7.0-1) ...
Setting up libjq1:amd64 (1.5+dfsg-2) ...
Setting up jq (1.5+dfsg-2) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for libc-bin (2.27-3ubuntu1.4) ...
Install golang.
--2021-10-13 08:52:50-- https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 172.217.14.206,
```

2607:f8b0:400a:807::200e

Connecting to dl.google.com (dl.google.com)|172.217.14.206|: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 32.5MB/s in 4.8s

2021-10-13 08:52:55 (23.8 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-172-31-20-46:~\$ echo export PATH=\$PATH:/usr/local/go/bin \>>

~/.profile

ubuntu@ip-172-31-20-46:~\$ echo cd \$HOME/go/src/k8s.io/arktos >> ~/.profile

ubuntu@ip-172-31-20-46:~\$ source ~/.profile

ubuntu@ip-172-31-20-46:~/go/src/k8s.io/arktos\$./hack/arktos-up.sh

DBG: Flannel CNI plugin will be installed AFTER cluster is up

DBG: effective feature gates

AllAlpha=false,WorkloadInfoDefaulting=true,QPSDoubleGCController=true,QPSDoubleR

SController=true,MandatoryArktosNetwork=true

DBG: effective disabling admission plugins

DBG: effective default network template file is

/home/ubuntu/go/src/k8s.io/arktos/hack/testdata/default-flat-network.tmpl

DBG: kubelet arg RESOLV_CONF is /run/systemd/resolve/resolv.conf

WARNING : The kubelet is configured to not fail even if swap is enabled;
production deployments should disable swap.

WARNING : This script MAY be run as root for docker socket / iptables
functionality; if failures occur, retry as root.

cni plugin is bridge; arktos will use bridge to provision pod network

Ensuring firewall to allow traffic forward by default

-P FORWARD DROP

-P FORWARD ACCEPT

Ensuring minimum cni plugin installation...

installing cni plugin binaries

./

./flannel

./ptp

./host-local

./firewall

./portmap

./tuning

./vlan

./host-device

./bandwidth

./sbr

./static

./dhcp

./ipvlan

```

./macvlan
./loopback
./bridge
2021-10-13 08:53:44
URL:https://github-releases.githubusercontent.com/84575398/53318d00-bf61-11e9-9a
8f-40364582e9ed?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CS
VEH53A%2F20211013%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20211013T085343Z&X-
Amz-Expires=300&X-Amz-Signature=22c50afbd2020cee2834b5ae0255122e74fc624fcee110c
0d2a32efcf18141f&X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=84575398&r
esponse-content-disposition=attachment%3B%20filename%3Dcni-plugins-linux-amd64-v
0.8.2.tgz&response-content-type=application%2Foctet-stream [36662740/36662740]
-> "-" [1]
setting up cni conf file...
copying /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf...
copied /home/ubuntu/go/src/k8s.io/arktos/hack/testdata/cni-conf/bridge.conf to
/etc/cni/net.d/bridge.conf
done with bridge cni plugin installation
WARNING : The kubelet is configured to not fail even if swap is enabled;
production deployments should disable swap.
WARNING : This script MAY be run as root for docker socket / iptables
functionality; if failures occur, retry as root.
Getting runtime deployment file  libvirt-qemu
--2021-10-13 08:53:44--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/libvirt-qemu
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.111.133, 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: 6578 (6.4K) [text/plain]
Saving to: '/tmp/libvirt-qemu'

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

2021-10-13 08:53:44 (56.2 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

Getting runtime deployment file  libvirtd
--2021-10-13 08:53:44--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/libvirtd
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.110.133, 185.199.109.133, 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: 1617 (1.6K) [text/plain]
Saving to: '/tmp/libvirtd'

/tmp/libvirtd
100%[=====
=====
```

```
=====>] 1.58K --.-KB/s in 0s
```

```
2021-10-13 08:53:44 (23.4 MB/s) - '/tmp/libvirt' saved [1617/1617]
```

```
Getting runtime deployment file virtlet
```

```
--2021-10-13 08:53:44--
```

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

```
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
```

```
185.199.110.133, 185.199.109.133, 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: 2582 (2.5K) [text/plain]
```

```
Saving to: '/tmp/virtlet'
```

```
/tmp/virtlet
```

```
100%[=====
```

```
=====>] 2.52K --.-KB/s in 0s
```

```
2021-10-13 08:53:44 (36.1 MB/s) - '/tmp/virtlet' saved [2582/2582]
```

```
Getting runtime deployment file vms
```

```
--2021-10-13 08:53:44--
```

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

```
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
```

```
185.199.110.133, 185.199.109.133, 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: 485 [text/plain]
```

```
Saving to: '/tmp/vms'
```

```
/tmp/vms
```

```
100%[=====
```

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

```
2021-10-13 08:53:44 (24.8 MB/s) - '/tmp/vms' saved [485/485]
```

```
Getting runtime deployment file vmruntime.yaml
```

```
--2021-10-13 08:53:44--
```

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

```
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
```

```
185.199.110.133, 185.199.109.133, 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: 11643 (11K) [text/plain]
```

```
Saving to: '/tmp/vmruntime.yaml'
```

```
/tmp/vmruntime.yaml
```

```
100%[=====
```

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

```
2021-10-13 08:53:45 (73.1 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]
```

```
Getting runtime deployment file images.yaml
```

```
--2021-10-13 08:53:45--
```

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

```
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
```

```
185.199.110.133, 185.199.109.133, 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: 254 [text/plain]
```

```
Saving to: '/tmp/images.yaml'
```

```
/tmp/images.yaml
```

```
100%[=====
```

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

```
2021-10-13 08:53:45 (11.2 MB/s) - '/tmp/images.yaml' saved [254/254]
```

```
Stopping Apparmor service
```

```
make: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
```

```
make[1]: Entering directory '/home/ubuntu/go/src/k8s.io/arktos'
```

```
+++ [1013 08:53:52] Building go targets for linux/amd64:
```

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

```
+++ [1013 08:53:52] Building go targets for linux/amd64:
```

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

```
+++ [1013 08:53:52] Building go targets for linux/amd64:
```

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

```
+++ [1013 08:53:52] Building go targets for linux/amd64:
```

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

```
+++ [1013 08:53:57] Building go targets for linux/amd64:
```

```
./vendor/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 3062 and  
retry the command.
```

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

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

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

```
warning: you may want to set your diff.renameLimit variable to at least 3062 and  
retry the command.
```

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

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

```
Done.
```

```
+++ [1013 08:54:20] 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 3062 and
retry the command.
~/go/src/k8s.io/arktos
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3062 and
retry the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
make: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
cannot find etcd locally. will install one.
Downloading
https://github.com/centaurus-cloud/etcd/releases/download/v3.4.3/etcd-v3.4.3-lin
ux-amd64.tar.gz succeed
etcd v3.4.3 installed. To use:
export PATH="/home/ubuntu/go/src/k8s.io/arktos/third_party/etcd:${PATH}"
```

The current version is 3.4.3

```
API SERVER insecure port is free, proceeding...
API SERVER secure port is free, proceeding...
Unable to successfully run 'cfssl' from
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/loc
al/games:/snap/bin:/usr/local/go/bin:/home/ubuntu/go/src/k8s.io/arktos/third_par
ty/etcd; downloading instead...
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload Upload	Total	Spent	Left	Speed
0	0	0	0	0	--:--:--	--:--:--	0
100	623	100	623	0	--:--:--	--:--:--	2193
100	9.8M	100	9.8M	0	--:--:--	--:--:--	22.6M

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
			Dload Upload	Total	Spent	Left	Speed
0	0	0	0	0	--:--:--	--:--:--	0
100	627	100	627	0	--:--:--	--:--:--	2943
100	2224k	100	2224k	0	--:--:--	--:--:--	4096k

```
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-172-31-20-46 --listen-peer-urls http://172.31.20.46:2380
--advertise-client-urls http://172.31.20.46:2379 --data-dir /tmp/tmp.PpM5jSFUnT
--listen-client-urls http://172.31.20.46:2379,http://127.0.0.1:2379
--listen-peer-urls http://172.31.20.46:2380 --debug > "/tmp/etcd.log"
2>/dev/null
Waiting for etcd to come up.
+++ [1013 08:56:49] On try 2, etcd: : {"health":"true"}
{"header":{"cluster_id":"12574209812231573994","member_id":"6382520316260976095",
,"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
140114039255488: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
139959282041280: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
140707100422592:error:2406F079:random number generator:RAND_load_file:Cannot
open file:../crypto/rand/randfile.c:88:Filename=/home/ubuntu/.rnd
Generating a RSA private key
.....+++++
.....+++++
.....+++++
writing new private key to '/var/run/kubernetes/request-header-ca.key'
-----
2021/10/13 08:56:50 [INFO] generate received request
2021/10/13 08:56:50 [INFO] received CSR
2021/10/13 08:56:50 [INFO] generating key: rsa-2048
2021/10/13 08:56:50 [INFO] encoded CSR
2021/10/13 08:56:50 [INFO] signed certificate with serial number
392968618331531952267634302922471063278345259273
2021/10/13 08:56:50 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:50 [INFO] generate received request
2021/10/13 08:56:50 [INFO] received CSR

```

2021/10/13 08:56:50 [INFO] generating key: rsa-2048
2021/10/13 08:56:50 [INFO] encoded CSR
2021/10/13 08:56:50 [INFO] signed certificate with serial number
706038253318235659728384310595652675473660427456
2021/10/13 08:56:50 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:50 [INFO] generate received request
2021/10/13 08:56:50 [INFO] received CSR
2021/10/13 08:56:50 [INFO] generating key: rsa-2048
2021/10/13 08:56:51 [INFO] encoded CSR
2021/10/13 08:56:51 [INFO] signed certificate with serial number
453743755627562543854610683827343689141179599852
2021/10/13 08:56:51 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:51 [INFO] generate received request
2021/10/13 08:56:51 [INFO] received CSR
2021/10/13 08:56:51 [INFO] generating key: rsa-2048
2021/10/13 08:56:51 [INFO] encoded CSR
2021/10/13 08:56:51 [INFO] signed certificate with serial number
684100903275141319941109114593685154923515989117
2021/10/13 08:56:51 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:51 [INFO] generate received request
2021/10/13 08:56:51 [INFO] received CSR
2021/10/13 08:56:51 [INFO] generating key: rsa-2048
2021/10/13 08:56:52 [INFO] encoded CSR
2021/10/13 08:56:52 [INFO] signed certificate with serial number
711171493937099934864192092355648256782521347647
2021/10/13 08:56:52 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:52 [INFO] generate received request
2021/10/13 08:56:52 [INFO] received CSR
2021/10/13 08:56:52 [INFO] generating key: rsa-2048
2021/10/13 08:56:52 [INFO] encoded CSR

2021/10/13 08:56:52 [INFO] signed certificate with serial number
411375751010716210660568674960568457917320019877
2021/10/13 08:56:52 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:52 [INFO] generate received request
2021/10/13 08:56:52 [INFO] received CSR
2021/10/13 08:56:52 [INFO] generating key: rsa-2048
2021/10/13 08:56:52 [INFO] encoded CSR
2021/10/13 08:56:52 [INFO] signed certificate with serial number
142846846840327854860654971082128664900035557976
2021/10/13 08:56:52 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:52 [INFO] generate received request
2021/10/13 08:56:52 [INFO] received CSR
2021/10/13 08:56:52 [INFO] generating key: rsa-2048
2021/10/13 08:56:52 [INFO] encoded CSR
2021/10/13 08:56:52 [INFO] signed certificate with serial number
373152039483832106987157175122272979553699607766
2021/10/13 08:56:52 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/10/13 08:56:52 [INFO] generate received request
2021/10/13 08:56:52 [INFO] received CSR
2021/10/13 08:56:52 [INFO] generating key: rsa-2048
2021/10/13 08:56:52 [INFO] encoded CSR
2021/10/13 08:56:52 [INFO] signed certificate with serial number
270739197243449869871868188501107545003794801726
2021/10/13 08:56:52 [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
+++ [1013 08:57:02] On try 8, apiserver: : ok
clusterrolebinding.rbac.authorization.k8s.io/kube-apiserver-kubelet-admin
created
Cluster "local-up-cluster" set.
use 'kubectl --kubeconfig=/var/run/kubernetes/admin-kube-aggregator0.kubeconfig'

```

to use the aggregated API server
2021/10/13 08:57:03 [INFO] generate received request
2021/10/13 08:57:03 [INFO] received CSR
2021/10/13 08:57:03 [INFO] generating key: rsa-2048
2021/10/13 08:57:03 [INFO] encoded CSR
2021/10/13 08:57:03 [INFO] signed certificate with serial number
311097048070600413064171532097828392989672747593
2021/10/13 08:57:03 [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").
service/kube-dns created
serviceaccount/kube-dns created
configmap/kube-dns created
deployment.apps/kube-dns created
Kube-dns addon successfully deployed.
2021/10/13 08:57:04 [INFO] generate received request
2021/10/13 08:57:04 [INFO] received CSR
2021/10/13 08:57:04 [INFO] generating key: rsa-2048
2021/10/13 08:57:05 [INFO] encoded CSR
2021/10/13 08:57:05 [INFO] signed certificate with serial number
428673336082276620198551802658930565214393358416
2021/10/13 08:57:05 [WARNING] This certificate lacks a "hosts" field. This makes
it unsuitable for
websites. For more information see the Baseline Requirements for the Issuance
and Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(https://cabforum.org);
specifically, section 10.2.3 ("Information Requirements").
kubelet ( 29457 ) is running.
Create default storage class for
storageclass.storage.k8s.io/standard created
customresourcedefinition.apiextensions.k8s.io/networks.arktos.futurewei.com
created
*****
Setup Arktos components ...

Waiting for node ready at api server
ip-172-31-20-46 Ready <none> 3s v0.9.0
node/ip-172-31-20-46 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="2021-10-13T08:57:21Z" level=error msg="CPU property not found" arch=amd64 description="Virtualization support" name=vmx pid=31629 source=runtime type=flag time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Intel KVM" name=kvm_intel pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Kernel-based Virtual Machine" name=kvm pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio" name=vhost pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Host kernel accelerator for virtio network" name=vhost_net pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" 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=31629 source=runtime time="2021-10-13T08:57:21Z" level=error msg="kernel property not found" arch=amd64 description="Host Support for Linux VM Sockets" name=vhost_vsock pid=31629 source=runtime type=module time="2021-10-13T08:57:21Z" level=error msg="ERROR: System is not capable of running Kata Containers" arch=amd64 name=kata-runtime pid=31629 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-172-31-20-46:6443  
--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
```