```
login as: ubuntu
Authenticating with public key "ubuntu"
Passphrase for key "ubuntu":
Wrong passphrase
Passphrase for key "ubuntu":
Wrong passphrase
Passphrase for key "ubuntu":


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

        ➤ SSH session to ubuntu@35.192.137.181
            · 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 18.04.6 LTS (GNU/Linux 5.4.0-1053-gcp x86_64)

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

  System information as of Wed Sep 29 09:11:46 UTC 2021

  System load:  0.0               Processes:            155
  Usage of /:   3.4% of 48.29GB   Users logged in:      0
  Memory usage: 0%                IP address for ens4: 10.128.0.15
  Swap usage:   0%

0 updates can be applied immediately.



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@network-test:~$
ubuntu@network-test:~$ uname -a
Linux network-test 5.4.0-1053-gcp #57~18.04.1-Ubuntu SMP Sun Sep 12 22:52:33 UTC
2021 x86_64 x86_64 x86_64 GNU/Linux
ubuntu@network-test:~$ wget
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh
```

```
--2021-09-29 09:12:24--
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.111.133, 185.199.108.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.111.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 791 [text/plain]
Saving to: 'kernelupdate.sh'

kernelupdate.sh
100%[===================================================================
======================================>]

2021-09-29 09:12:24 (45.9 MB/s) - 'kernelupdate.sh' saved [791/791]

ubuntu@network-test:~$ sudo bash kernelupdate.sh
--2021-09-29 09:12:25--
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)... 52.217.82.116
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com)|52.217.82.116|: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.deb
100%[===================================================================
======================================>]

2021-09-29 09:12:26 (19.6 MB/s) - '../linux-
5.6-rc2/linux-headers-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved [7621020/7621020]

--2021-09-29 09:12:26--
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)... 52.217.82.116
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com)|52.217.82.116|: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.deb
100%[===================================================================
======================================>]

2021-09-29 09:12:38 (67.8 MB/s) - '../linux-
5.6-rc2/linux-image-5.6.0-rc2-dbg_5.6.0-rc2-1_amd64.deb' saved
[857827912/857827912]

--2021-09-29 09:12:38--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_a
```

```
md64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.217.96.68
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com)|52.217.96.68|: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%[===========================================================================
======================================>]

2021-09-29 09:12:39 (52.5 MB/s) - '../linux-
5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved [56427036/56427036]

--2021-09-29 09:12:39--
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)... 52.217.96.68
Connecting to mizar.s3.amazonaws.com
(mizar.s3.amazonaws.com)|52.217.96.68|: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%[===========================================================================
======================================>]

2021-09-29 09:12:40 (4.65 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 ... 65612 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-5.4.0-1053-gcp
Found initrd image: /boot/initrd.img-5.4.0-1053-gcp
Adding boot menu entry for EFI firmware configuration
done
Setting up linux-libc-dev:amd64 (5.6.0-rc2-1) ...
Reboot host (y/n)?y
Rebooting

Remote side unexpectedly closed network connection


_____
_____
_____


Session stopped
    - Press <return> to exit tab
    - Press R to restart session
    - Press S to save terminal output to file
login as: ubuntu
Authenticating with public key "ubuntu"

┌──────────────────────────────────────────────────────────────────────┐
│                      · MobaXterm Professional v21.0 ·                  │
│               (SSH client, X server and network tools)                 │
│                                                                        │
│  ➤ SSH session to ubuntu@35.192.137.181                                │
│    · 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 18.04.6 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 Sep 29 09:23:53 UTC 2021

  System load:  0.01               Processes:              164
  Usage of /:   17.8% of 48.29GB   Users logged in:        0
  Memory usage: 0%                 IP address for ens4: 10.128.0.15
  Swap usage:   0%


0 updates can be applied immediately.

New release '20.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
```

Last login: Wed Sep 29 09:11:47 2021 from 114.143.207.106
ubuntu@network-test:~$ git clone
https://github.com/Click2Cloud-Centaurus/arktos.git ~/go/src/k8s.io/arktos -b
default-cni-mizar
Cloning into '/home/ubuntu/go/src/k8s.io/arktos'...
remote: Enumerating objects: 104467, done.
remote: Counting objects: 100% (1130/1130), done.
remote: Compressing objects: 100% (683/683), done.
remote: Total 104467 (delta 564), reused 635 (delta 431), pack-reused 103337
Receiving objects: 100% (104467/104467), 333.11 MiB | 32.58 MiB/s, done.
Resolving deltas: 100% (63151/63151), done.
Checking out files: 100% (20762/20762), done.
ubuntu@network-test:~$ 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-central1.gce.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates InRelease
[88.7 kB]
Get:3 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-backports
InRelease [74.6 kB]
Get:4 http://us-central1.gce.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-central1.gce.archive.ubuntu.com/ubuntu bionic/universe
Translation-en [4941 kB]
Get:7 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/multiverse amd64
Packages [151 kB]
Get:8 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/multiverse
Translation-en [108 kB]
Get:9 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64
Packages [2265 kB]
Get:10 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/universe
amd64 Packages [1754 kB]
Get:11 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/universe
Translation-en [376 kB]
Get:12 http://us-central1.gce.archive.ubuntu.com/ubuntu
bionic-updates/multiverse amd64 Packages [27.3 kB]
Get:13 http://us-central1.gce.archive.ubuntu.com/ubuntu
bionic-updates/multiverse Translation-en [6808 B]
Get:14 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-backports/main
amd64 Packages [10.0 kB]
Get:15 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-backports/main
Translation-en [4764 B]
Get:16 http://us-central1.gce.archive.ubuntu.com/ubuntu
bionic-backports/universe amd64 Packages [10.3 kB]
Get:17 http://us-central1.gce.archive.ubuntu.com/ubuntu
bionic-backports/universe Translation-en [4588 B]
Get:18 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages
[1904 kB]
Get:19 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en

```
[345 kB]
Get:20 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64
Packages [468 kB]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/restricted
Translation-en [63.0 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages
[1140 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en
[260 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64
Packages [20.9 kB]
Get:25 http://security.ubuntu.com/ubuntu bionic-security/multiverse
Translation-en [4732 B]
Fetched 22.7 MB in 4s (5555 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
4 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 package was automatically installed and is no longer required:
  libnuma1
Use 'sudo apt autoremove' to remove it.
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 4 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-central1.gce.archive.ubuntu.com/ubuntu bionic/universe amd64
pigz amd64 2.4-1 [57.4 kB]
Get:2 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/main amd64
bridge-utils amd64 1.5-15ubuntu1 [30.1 kB]
Get:3 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/universe
amd64 runc amd64 1.0.0~rc95-0ubuntu1~18.04.2 [4087 kB]
Get:4 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/universe
amd64 containerd amd64 1.5.2-0ubuntu1~18.04.2 [32.9 MB]
Get:5 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/universe
amd64 docker.io amd64 20.10.7-0ubuntu1~18.04.1 [36.9 MB]
Get:6 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/main amd64
ubuntu-fan all 0.12.10 [34.7 kB]
Fetched 74.0 MB in 1s (49.8 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 97198 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_1.5.2-0ubuntu1~18.04.2_amd64.deb ...
Unpacking containerd (1.5.2-0ubuntu1~18.04.2) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../4-docker.io_20.10.7-0ubuntu1~18.04.1_amd64.deb ...
Unpacking docker.io (20.10.7-0ubuntu1~18.04.1) ...
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 (1.5.2-0ubuntu1~18.04.2) ...
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 (20.10.7-0ubuntu1~18.04.1) ...
Adding group `docker' (GID 116) ...
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 (237-3ubuntu10.52) ...
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
The following package was automatically installed and is no longer required:
  libnuma1
Use 'sudo apt autoremove' to remove it.
Suggested packages:
  make-doc
The following NEW packages will be installed:
  make
0 upgraded, 1 newly installed, 0 to remove and 4 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-central1.gce.archive.ubuntu.com/ubuntu bionic/main amd64 make
amd64 4.1-9.1ubuntu1 [154 kB]
Fetched 154 kB in 0s (9698 kB/s)
Selecting previously unselected package make.
(Reading database ... 97520 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 package was automatically installed and is no longer required:
  libnuma1
Use 'sudo apt autoremove' to remove it.
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
  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 l
  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 libg
  libmpc3 libmpx2 libquadmath0 libtsan0 libubsan0 manpages-dev
0 upgraded, 26 newly installed, 0 to remove and 4 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-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64
binutils-common amd64 2.30-21ubuntu1~18.04.5 [197 kB]
Get:2 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libbinutils amd64 2.30-21ubuntu1~18.04.5 [489 kB]
Get:3 http://us-central1.gce.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-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64
binutils amd64 2.30-21ubuntu1~18.04.5 [3388 B]
Get:5 http://us-central1.gce.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-central1.gce.archive.ubuntu.com/ubuntu bionic/main amd64
libisl19 amd64 0.19-1 [551 kB]
Get:7 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/main amd64 libmpc3
amd64 1.1.0-1 [40.8 kB]
Get:8 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64
cpp-7 amd64 7.5.0-3ubuntu1~18.04 [8591 kB]
Get:9 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main amd64
cpp amd64 4:7.4.0-1ubuntu2.3 [27.7 kB]
Get:10 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libcc1-0 amd64 8.4.0-1ubuntu1~18.04 [39.4 kB]
Get:11 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libgomp1 amd64 8.4.0-1ubuntu1~18.04 [76.5 kB]
Get:12 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libitm1 amd64 8.4.0-1ubuntu1~18.04 [27.9 kB]
Get:13 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libatomic1 amd64 8.4.0-1ubuntu1~18.04 [9192 B]
Get:14 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
```

```
amd64 libasan4 amd64 7.5.0-3ubuntu1~18.04 [358 kB]
Get:15 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 liblsan0 amd64 8.4.0-1ubuntu1~18.04 [133 kB]
Get:16 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libtsan0 amd64 8.4.0-1ubuntu1~18.04 [288 kB]
Get:17 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libubsan0 amd64 7.5.0-3ubuntu1~18.04 [126 kB]
Get:18 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libcilkrts5 amd64 7.5.0-3ubuntu1~18.04 [42.5 kB]
Get:19 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libmpx2 amd64 8.4.0-1ubuntu1~18.04 [11.6 kB]
Get:20 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libquadmath0 amd64 8.4.0-1ubuntu1~18.04 [134 kB]
Get:21 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libgcc-7-dev amd64 7.5.0-3ubuntu1~18.04 [2378 kB]
Get:22 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 gcc-7 amd64 7.5.0-3ubuntu1~18.04 [9381 kB]
Get:23 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 gcc amd64 4:7.4.0-1ubuntu2.3 [5184 B]
Get:24 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libc-dev-bin amd64 2.27-3ubuntu1.4 [71.8 kB]
Get:25 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic-updates/main
amd64 libc6-dev amd64 2.27-3ubuntu1.4 [2585 kB]
Get:26 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/main amd64
manpages-dev all 4.15-1 [2217 kB]
Fetched 29.6 MB in 1s (55.1 MB/s)
Selecting previously unselected package binutils-common:amd64.
(Reading database ... 97536 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 package was automatically installed and is no longer required:
  libnuma1
Use 'sudo apt autoremove' to remove it.
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 4 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-central1.gce.archive.ubuntu.com/ubuntu bionic/universe amd64
libonig4 amd64 6.7.0-1 [119 kB]
Get:2 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/universe amd64
libjq1 amd64 1.5+dfsg-2 [111 kB]
Get:3 http://us-central1.gce.archive.ubuntu.com/ubuntu bionic/universe amd64 jq
amd64 1.5+dfsg-2 [45.6 kB]
Fetched 276 kB in 0s (8708 kB/s)
Selecting previously unselected package libonig4:amd64.
(Reading database ... 100797 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.
--2021-09-29 09:25:42--  https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 142.251.6.190, 142.251.6.91,
142.251.6.136, ...
Connecting to dl.google.com (dl.google.com)|142.251.6.190|: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%[=====================================================================
======================================>]

2021-09-29 09:25:45 (35.1 MB/s) - '/tmp/go1.13.9.linux-amd64.tar.gz' saved
[120139686/120139686]

Done.
Please run and add 'export PATH=$PATH:/usr/local/go/bin' into your shell
profile.
You can proceed to run arktos-up.sh if you want to launch a single-node cluster.
ubuntu@network-test:~$ echo export PATH=$PATH:/usr/local/go/bin\ >> ~/.profile
ubuntu@network-test:~$ echo cd \$HOME/go/src/k8s.io/arktos >> ~/.profile
ubuntu@network-test:~$ source ~/.profile
ubuntu@network-test:~/go/src/k8s.io/arktos$ CNIPLUGIN=mizar ./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 mizar; arktos will use mizar to provision pod network
Checking arktos containerd...
arktos containerd not found...
--2021-09-29 09:27:19--
https://github.com/containerd/containerd/releases/download/v1.4.2/containerd-1.4
.2-linux-amd64.tar.gz
Resolving github.com (github.com)... 140.82.113.3
Connecting to github.com (github.com)|140.82.113.3|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location:
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-e
```

d435a7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH5
3A%2F20quest&X-Amz-Date=20210929T092719Z&X-Amz-Expires=300&X-Amz-Signature=ca47e
7a0b871c9b2c4b10e761f4a1fa5270b2dd6f8436d0e55781c2a16d97811&X-Amz-SignedHeaders=
host&actor_id=0&key_id=0t-disposition=attachment%3B%20filename%3Dcontainerd-1.4.
2-linux-amd64.tar.gz&response-content-type=application%2Foctet-stream
[following]
--2021-09-29 09:27:19--
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-e
d435a7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYA%2Fs3%2F
aws4_request&X-Amz-Date=20210929T092719Z&X-Amz-Expires=300&X-Amz-Signature=ca47e
7a0b871c9b2c4b10e761f4a1fa5270b2dd6f8436d0e55781c2a16d97811&X-Amz-SignedHeaders=
host&actorresponse-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)... 185.199.111.154, 185.199.110.154,
185.199.109.154, ...
Connecting to github-releases.githubusercontent.com
(github-releases.githubusercontent.com)|185.199.111.154|: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%[===
==>]

2021-09-29 09:27:20 (88.3 MB/s) - '/home/ubuntu/arktos-
containerd/containerd-1.4.2-linux-amd64.tar.gz' saved [31160021/31160021]

installing arktos containerd...
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
--2021-09-29 09:27:37--
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, 185.199.109.133, ...
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%[===
==>]

2021-09-29 09:27:37 (65.5 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

Getting runtime deployment file libvirtd
--2021-09-29 09:27:37--

```
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/libvirtd
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1617 (1.6K) [text/plain]
Saving to: '/tmp/libvirtd'

/tmp/libvirtd
100%[=======================================================================
======================================>]

2021-09-29 09:27:37 (25.1 MB/s) - '/tmp/libvirtd' saved [1617/1617]

Getting runtime deployment file  virtlet
--2021-09-29 09:27:37--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/virtlet
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2582 (2.5K) [text/plain]
Saving to: '/tmp/virtlet'

/tmp/virtlet
100%[=======================================================================
======================================>]

2021-09-29 09:27:37 (38.3 MB/s) - '/tmp/virtlet' saved [2582/2582]

Getting runtime deployment file  vms
--2021-09-29 09:27:37--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/vms
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 485 [text/plain]
Saving to: '/tmp/vms'

/tmp/vms
100%[=======================================================================
======================================>]

2021-09-29 09:27:37 (16.8 MB/s) - '/tmp/vms' saved [485/485]

Getting runtime deployment file  vmruntime.yaml
--2021-09-29 09:27:37--
```

```
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/data/virtlet-ds.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11643 (11K) [text/plain]
Saving to: '/tmp/vmruntime.yaml'

/tmp/vmruntime.yaml
100%[=======================================================================
=======================================>]

2021-09-29 09:27:37 (77.0 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]

Getting runtime deployment file  images.yaml
--2021-09-29 09:27:37--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/images.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 254 [text/plain]
Saving to: '/tmp/images.yaml'

/tmp/images.yaml
100%[=======================================================================
=======================================>]

2021-09-29 09:27:38 (16.7 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'
+++ [0929 09:27:45] Building go targets for linux/amd64:
    ./vendor/k8s.io/code-generator/cmd/deepcopy-gen
+++ [0929 09:27:45] Building go targets for linux/amd64:
    ./vendor/k8s.io/code-generator/cmd/defaulter-gen
+++ [0929 09:27:45] Building go targets for linux/amd64:
    ./vendor/k8s.io/code-generator/cmd/conversion-gen
+++ [0929 09:27:45] Building go targets for linux/amd64:
    ./vendor/k8s.io/kube-openapi/cmd/openapi-gen
+++ [0929 09:27:49] Building go targets for linux/amd64:
    ./vendor/github.com/go-bindata/go-bindata/go-bindata
F0929 09:27:58.245152   17028 defaulter.go:292] cannot import package
../../../../vendor/k8s.io/api/authorization/v1beta1
Makefile.generated_files:249: recipe for target 'gen_defaulter' failed
make[1]: *** [gen_defaulter] Error 1
make[1]: *** Waiting for unfinished jobs....
make[1]: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
Makefile:560: recipe for target 'generated_files' failed
```

```
make: *** [generated_files] Error 2
make: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
!!! Error in ./hack/arktos-up.sh:138
  Error in ./hack/arktos-up.sh:138. 'make -j4 -C "${KUBE_ROOT}"
WHAT="cmd/kubectl cmd/hyperkube cmd/kube-apiserver cmd/kube-controller-manager
cmd/workload-controller-manager cmbelet cmd/kube-proxy cmd/kube-scheduler
cmd/arktos-network-controller"' exited with status 2
Call stack:
  1: ./hack/arktos-up.sh:138 main(...)
Exiting with status 1
ubuntu@network-test:~/go/src/k8s.io/arktos$ CNIPLUGIN=mizar ./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 mizar; arktos will use mizar to provision pod network
Checking arktos containerd...
arktos containerd found...
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
--2021-09-29 09:30:25--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/libvirt-qemu
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 6578 (6.4K) [text/plain]
Saving to: '/tmp/libvirt-qemu'

/tmp/libvirt-qemu
100%[========================================================================
=======================================>]

2021-09-29 09:30:26 (40.0 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

Getting runtime deployment file  libvirtd
--2021-09-29 09:30:26--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/libvirtd
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
```

```
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1617 (1.6K) [text/plain]
Saving to: '/tmp/libvirtd'

/tmp/libvirtd
100%[=====================================================================
====================================>]

2021-09-29 09:30:26 (19.7 MB/s) - '/tmp/libvirtd' saved [1617/1617]

Getting runtime deployment file  virtlet
--2021-09-29 09:30:26--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/virtlet
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2582 (2.5K) [text/plain]
Saving to: '/tmp/virtlet'

/tmp/virtlet
100%[=====================================================================
====================================>]

2021-09-29 09:30:26 (39.6 MB/s) - '/tmp/virtlet' saved [2582/2582]

Getting runtime deployment file  vms
--2021-09-29 09:30:26--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/apparmor/vms
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 485 [text/plain]
Saving to: '/tmp/vms'

/tmp/vms
100%[=====================================================================
====================================>]

2021-09-29 09:30:26 (30.8 MB/s) - '/tmp/vms' saved [485/485]

Getting runtime deployment file  vmruntime.yaml
--2021-09-29 09:30:26--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/data/virtlet-ds.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
```

```
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11643 (11K) [text/plain]
Saving to: '/tmp/vmruntime.yaml'

/tmp/vmruntime.yaml
100%[======================================================================
======================================>]

2021-09-29 09:30:26 (80.8 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]

Getting runtime deployment file  images.yaml
--2021-09-29 09:30:26--
https://raw.githubusercontent.com/futurewei-cloud/arktos-vm-runtime/release-0.6/
deploy/images.yaml
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.108.133, 185.199.109.133, 185.199.111.133, ...
Connecting to raw.githubusercontent.com
(raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 254 [text/plain]
Saving to: '/tmp/images.yaml'

/tmp/images.yaml
100%[======================================================================
======================================>]

2021-09-29 09:30:26 (10.6 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'
make[1]: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
Running copyright check for repo: /home/ubuntu/go/src/k8s.io/arktos, logging to
_output/ArktosCopyrightTool.log
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3063 and
retry the command.
~/go/src/k8s.io/arktos
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3063 and
retry the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
+++ [0929 09:30:50] Building go targets for linux/amd64:
    cmd/kubectl
    cmd/hyperkube
    cmd/kube-apiserver
    cmd/kube-controller-manager
    cmd/workload-controller-manager
```

```
        cmd/cloud-controller-manager
        cmd/kubelet
        cmd/kube-proxy
        cmd/kube-scheduler
        cmd/arktos-network-controller
Running copyright check for repo: /home/ubuntu/go/src/k8s.io/arktos, logging to
_output/ArktosCopyrightTool.log
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3063 and
retry the command.
~/go/src/k8s.io/arktos
~/go/src/k8s.io/arktos ~/go/src/k8s.io/arktos
warning: inexact rename detection was skipped due to too many files.
warning: you may want to set your diff.renameLimit variable to at least 3063 and
retry the command.
~/go/src/k8s.io/arktos
Inspecting copyright files, writing logs to _output/ArktosCopyrightTool.log
Done.
make: Leaving directory '/home/ubuntu/go/src/k8s.io/arktos'
cannot find etcd locally. will install one.
Downloading
https://github.com/centaurus-cloud/etcd/releases/download/v3.4.3/etcd-v3.4.3-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/ownloading instead...
  % 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   623  100   623    0     0   2056       0 --:--:-- --:--:-- --:--:--   608k
100  9.8M  100  9.8M    0     0  20.8M       0 --:--:-- --:--:-- --:--:--  20.8M
  % 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   2774       0 --:--:-- --:--:-- --:--:--   2774
100 2224k  100 2224k    0     0  6111k       0 --:--:-- --:--:-- --:--:--  6111k
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 network-test --listen-peer-urls http://10.128.0.15:2380
--advertise-client-urls http://10.128.0.15:2379 --data-dir /tmp/tmp.g46EVnwIT9
--listen-client-urls http://:2379 --listen-peer-urls http://10.128.0.15:2380
```

```
--debug > "/tmp/etcd.log" 2>/dev/null
Waiting for etcd to come up.
+++ [0929 09:35:42] On try 1, etcd: : {"health":"true"}
{"header":{"cluster_id":"4016749960341602055","member_id":"13536414649889778765"
,"revision":"2","raft_term":"2"}}Starting 1 kube-apiserver instances. If you
want to make changesease 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
140444389327296: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
140176537940416: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
139840621621696: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'
-----
2021/09/29 09:35:42 [INFO] generate received request
2021/09/29 09:35:42 [INFO] received CSR
2021/09/29 09:35:42 [INFO] generating key: rsa-2048
2021/09/29 09:35:43 [INFO] encoded CSR
2021/09/29 09:35:43 [INFO] signed certificate with serial number
218581211354387587646912656028250620305629260347
2021/09/29 09:35:43 [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").
2021/09/29 09:35:43 [INFO] generate received request
2021/09/29 09:35:43 [INFO] received CSR
2021/09/29 09:35:43 [INFO] generating key: rsa-2048
2021/09/29 09:35:43 [INFO] encoded CSR
2021/09/29 09:35:43 [INFO] signed certificate with serial number
580340312595036724984025372891931045552660855572
2021/09/29 09:35:43 [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").
2021/09/29 09:35:43 [INFO] generate received request
2021/09/29 09:35:43 [INFO] received CSR
2021/09/29 09:35:43 [INFO] generating key: rsa-2048
2021/09/29 09:35:44 [INFO] encoded CSR
2021/09/29 09:35:44 [INFO] signed certificate with serial number 567173349596257578150514964226389116337285722349
2021/09/29 09:35:44 [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").
2021/09/29 09:35:44 [INFO] generate received request
2021/09/29 09:35:44 [INFO] received CSR
2021/09/29 09:35:44 [INFO] generating key: rsa-2048
2021/09/29 09:35:44 [INFO] encoded CSR
2021/09/29 09:35:44 [INFO] signed certificate with serial number 314617483504214473117526968367352303524351746040
2021/09/29 09:35:44 [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").
2021/09/29 09:35:44 [INFO] generate received request
2021/09/29 09:35:44 [INFO] received CSR
2021/09/29 09:35:44 [INFO] generating key: rsa-2048
2021/09/29 09:35:45 [INFO] encoded CSR
2021/09/29 09:35:45 [INFO] signed certificate with serial number 167041844751132457615223090054976375499276794353
2021/09/29 09:35:45 [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").
2021/09/29 09:35:45 [INFO] generate received request
2021/09/29 09:35:45 [INFO] received CSR
2021/09/29 09:35:45 [INFO] generating key: rsa-2048
2021/09/29 09:35:45 [INFO] encoded CSR
2021/09/29 09:35:45 [INFO] signed certificate with serial number 996578266179617568095843617926514938597636459990
2021/09/29 09:35:45 [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").
2021/09/29 09:35:45 [INFO] generate received request
2021/09/29 09:35:45 [INFO] received CSR
2021/09/29 09:35:45 [INFO] generating key: rsa-2048
2021/09/29 09:35:45 [INFO] encoded CSR
2021/09/29 09:35:45 [INFO] signed certificate with serial number
307209542420352934322348223092525133295471650816
2021/09/29 09:35:45 [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").
2021/09/29 09:35:45 [INFO] generate received request
2021/09/29 09:35:45 [INFO] received CSR
2021/09/29 09:35:45 [INFO] generating key: rsa-2048
2021/09/29 09:35:45 [INFO] encoded CSR
2021/09/29 09:35:45 [INFO] signed certificate with serial number
223168236585822527392396000790338961224872892187
2021/09/29 09:35:45 [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").
2021/09/29 09:35:45 [INFO] generate received request
2021/09/29 09:35:45 [INFO] received CSR
2021/09/29 09:35:45 [INFO] generating key: rsa-2048
2021/09/29 09:35:46 [INFO] encoded CSR
2021/09/29 09:35:46 [INFO] signed certificate with serial number
140330170012944475457077445954089702135258976396
2021/09/29 09:35:46 [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
+++ [0929 09:36:30] On try 27, 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
2021/09/29 09:36:31 [INFO] generate received request
2021/09/29 09:36:31 [INFO] received CSR
2021/09/29 09:36:31 [INFO] generating key: rsa-2048
2021/09/29 09:36:31 [INFO] encoded CSR
2021/09/29 09:36:31 [INFO] signed certificate with serial number

45282444002522850034852883932210039955345028450 9
2021/09/29 09:36:31 [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.
2021/09/29 09:36:32 [INFO] generate received request
2021/09/29 09:36:32 [INFO] received CSR
2021/09/29 09:36:32 [INFO] generating key: rsa-2048
2021/09/29 09:36:32 [INFO] encoded CSR
2021/09/29 09:36:32 [INFO] signed certificate with serial number
66557393533988259913930725796028205182510665565 6
2021/09/29 09:36:32 [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 (5931) is running.
customresourcedefinition.apiextensions.k8s.io/bouncers.mizar.com created
customresourcedefinition.apiextensions.k8s.io/dividers.mizar.com created
customresourcedefinition.apiextensions.k8s.io/droplets.mizar.com created
customresourcedefinition.apiextensions.k8s.io/endpoints.mizar.com created
customresourcedefinition.apiextensions.k8s.io/subnets.mizar.com created
customresourcedefinition.apiextensions.k8s.io/vpcs.mizar.com created
serviceaccount/mizar-operator created
clusterrolebinding.rbac.authorization.k8s.io/mizar-operator created
daemonset.apps/mizar-daemon created
deployment.apps/mizar-operator created
Create default storage class for
storageclass.storage.k8s.io/standard created
customresourcedefinition.apiextensions.k8s.io/networks.arktos.futurewei.com
created
****
Setup Arktos components ...

Waiting for node ready at api server
Waiting for node ready at api server
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Waiting for node ready at api server
network-test    Ready    <none>    9m5s    v0.8.0
node/network-test 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="2021-09-29T09:45:57Z" level=error msg="CPU
property not found" arch=amd64 description="Virtualization support" name=vmx
pid=4734 source=runtime type=flag time="2021-09-29T09:45:57Z" 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=4734
source=runtime time="2021-09-29T09:45:57Z" level=error msg="kernel property not
found" arch=amd64 description="Kernel-based Virtual Machine" name=kvm pid=4734
source=runtime type=module time="2021-09-29T09:45:57Z" 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=4734 source=runtime
time="2021-09-29T09:45:57Z" level=error msg="kernel property not found"
arch=amd64 description="Host kernel accelerator for virtio" name=vhost pid=4734
source=runtime type=module time="2021-09-29T09:45:57Z" 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=4734 source=runtime
time="2021-09-29T09:45:57Z" level=error msg="kernel property not found"
arch=amd64 description="Host kernel accelerator for virtio network"
name=vhost_net pid=4734 source=runtime type=module time="2021-09-29T09:45:57Z"
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=4734 source=runtime time="2021-09-29T09:45:57Z"
level=error msg="kernel property not found" arch=amd64 description="Host Support
for Linux VM Sockets" name=vhost_vsock pid=4734 source=runtime type=module
time="2021-09-29T09:45:57Z" 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=4734 source=runtime
time="2021-09-29T09:45:57Z" level=error msg="kernel property not found"
arch=amd64 description="Intel KVM" name=kvm_intel pid=4734 source=runtime
type=module time="2021-09-29T09:45:57Z" level=error msg="ERROR: System is not
capable of running Kata Containers" arch=amd64 name=kata-runtime pid=4734
source=runtime ERROR: System is not capable of running Kata Containers
Aborted. Current system does not support Kata Containers.
Kata Setup done.
*******************************************
Local Kubernetes cluster is running. Press Ctrl-C to shut it down.

Logs:
  /tmp/kube-apiserver0.log
  /tmp/kube-controller-manager.log
```

```
  /tmp/kube-proxy.log
  /tmp/kube-scheduler.log
  /tmp/kubelet.log

To start using your cluster, you can open up another terminal/tab and run:

  export KUBECONFIG=/var/run/kubernetes/admin.kubeconfig
Or
  export KUBECONFIG=/var/run/kubernetes/adminN(N=0,1,...).kubeconfig

  cluster/kubectl.sh

Alternatively, you can write to the default kubeconfig:

  export KUBERNETES_PROVIDER=local

  cluster/kubectl.sh config set-cluster local --server=https://network-test:6443
--certificate-authority=/var/run/kubernetes/server-ca.crt
  cluster/kubectl.sh config set-credentials myself
--client-key=/var/run/kubernetes/client-admin.key
--client-certificate=/var/run/kubernetes/client-admin.crt
  cluster/kubectl.sh config set-context local --cluster=local --user=myself
  cluster/kubectl.sh config use-context local
  cluster/kubectl.sh

Remote side unexpectedly closed network connection
```

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