

Authenticating with public key "Imported-Openssh-Key:
C:\\Users\\komal.bawane.RSINNGP\\Downloads\\aws-komal.pem"

```
• MobaXterm 20.6 •  
(SSH client, X-server and networking tools)  
  
→ SSH session to ubuntu@52.11.82.100  
• SSH compression : v  
• SSH-browser      : v  
• X11-forwarding   : v (remote display is forwarded through SSH)  
• DISPLAY          : v (automatically set on remote server)  
  
→ For more info, ctrl+click on help or visit our website
```

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

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

System information as of Fri Sep 24 09:37:27 UTC 2021

| | | | |
|---------------|------------------|----------------------|---------------|
| System load: | 0.09 | Processes: | 197 |
| Usage of /: | 0.9% of 124.02GB | Users logged in: | 0 |
| Memory usage: | 0% | IP address for eth0: | 172.31.17.139 |
| 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-172-31-17-139:~$ uname -a  
Linux ip-172-31-17-139 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-172-31-17-139:~$ ^C  
ubuntu@ip-172-31-17-139:~$ wget  
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh  
--2021-09-24 09:44:21--  
https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh  
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133,  
185.199.108.133, 185.199.109.133, ...  
Connecting to raw.githubusercontent.com
```

(raw.githubusercontent.com)|185.199.111.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 791 [text/plain]
Saving to: 'kernelupdate.sh'

kernelupdate.sh

100%[=====>] 791 --.-K

2021-09-24 09:44:21 (44.1 MB/s) - 'kernelupdate.sh' saved [791/791]

ubuntu@ip-172-31-17-139:~\$ sudo bash kernelupdate.sh

--2021-09-24 09:44:21--

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)... 52.217.110.76

Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.110.76|: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%[=====>] 7.27M 6.81M

2021-09-24 09:44:23 (6.81 MB/s) -

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

--2021-09-24 09:44:23--

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)... 52.217.206.57

Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.206.57|: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%[=====>] 818.09M 7.64M

2021-09-24 09:46:13 (7.47 MB/s) -

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

--2021-09-24 09:46:13--

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

Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.216.110.243

Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.216.110.243|: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 5.37M

2021-09-24 09:46:23 (5.47 MB/s) -
'./linux-5.6-rc2/linux-image-5.6.0-rc2_5.6.0-rc2-1_amd64.deb' saved
[56427036/56427036]

--2021-09-24 09:46:23--
https://mizar.s3.amazonaws.com/linux-5.6-rc2/linux-libc-dev_5.6.0-rc2-1_amd64.deb
Resolving mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)... 52.217.138.33
Connecting to mizar.s3.amazonaws.com (mizar.s3.amazonaws.com)|52.217.138.33|: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 2.59M

2021-09-24 09:46:24 (2.59 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\\komal.bawane.RSINNGP\\Downloads\\aws-komal.pem"

```
• MobaXterm 20.6 •  
(SSH client, X-server and networking tools)  
  
→ SSH session to ubuntu@52.11.82.100  
• SSH compression : v  
• SSH-browser      : v  
• X11-forwarding   : v (remote display is forwarded through SSH)  
• DISPLAY          : v (automatically set on remote server)  
  
→ 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>
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System information as of Fri Sep 24 09:51:35 UTC 2021

| | | | |
|---------------|------------------|----------------------|---------------|
| System load: | 0.8 | Processes: | 165 |
| Usage of /: | 6.5% of 124.02GB | Users logged in: | 0 |
| Memory usage: | 0% | IP address for eth0: | 172.31.17.139 |
| Swap usage: | 0% | | |

0 packages can be updated.
0 of these updates are security updates.

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

Last login: Fri Sep 24 09:37:29 2021 from 114.143.207.106
ubuntu@ip-172-31-17-139:~\$ 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: 104392, done.
remote: Counting objects: 100% (1055/1055), done.
remote: Compressing objects: 100% (631/631), done.
remote: Total 104392 (delta 516), reused 583 (delta 409), pack-reused 103337
Receiving objects: 100% (104392/104392), 332.77 MiB | 23.73 MiB/s, done.
Resolving deltas: 100% (63152/63152), done.
Checking out files: 100% (20762/20762), done.
ubuntu@ip-172-31-17-139:~$ 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
[2224 kB]
Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main
Translation-en [435 kB]
Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64
Packages [472 kB]
Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted
Translation-en [64.0 kB]
Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64
Packages [1749 kB]
Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe
Translation-en [375 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 [1879 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [342 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [448
kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en
[60.3 kB]
```

Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1138 kB]
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [259 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 23.6 MB in 4s (5509 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
80 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 80 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 1.5.2-0ubuntu1~18.04.2 [32.9 MB]
Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 docker.io amd64 20.10.7-0ubuntu1~18.04.1 [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 (45.9 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_1.5.2-0ubuntu1~18.04.2_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 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 80 not upgraded.
Need to get 154 kB of archives.
After this operation, 381 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 make amd64
4.1-9.1ubuntu1 [154 kB]
Fetched 154 kB in 0s (0 B/s)
Selecting previously unselected package make.
(Reading database ... 89149 files and directories currently installed.)
Preparing to unpack .../make_4.1-9.1ubuntu1_amd64.deb ...
Unpacking make (4.1-9.1ubuntu1) ...
Setting up make (4.1-9.1ubuntu1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
    binutils binutils-common binutils-x86-64-linux-gnu cpp cpp-7 gcc-7 gcc-7-base libasan4
    libatomic1 libbinutils libc-dev-bin libc6-dev libcc1-0 libcilkrts5 libgcc-7-dev libgomp1
    libisl19 libitm1 liblsan0 libmpc3 libmpx2 libquadmath0 libtsan0 libubsan0 manpages-dev
Suggested packages:
    binutils-doc cpp-doc gcc-7-locales gcc-multilib autoconf automake libtool flex bison
    gdb gcc-doc gcc-7-multilib gcc-7-doc libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg
    libasan4-dbg liblsan0-dbg libtsan0-dbg libubsan0-dbg libcilkrts5-dbg libmpx2-dbg

```

libquadmath0-dbg glibc-doc

The following NEW packages will be installed:

binutils binutils-common binutils-x86-64-linux-gnu cpp cpp-7 gcc gcc-7 gcc-7-base
libasan4 libatomic1 libbinutils libc-dev-bin libc6-dev libcc1-0 libcilkrts5 libgcc-7-dev
libgomp1 libisl19 libitm1 liblsan0 libmpc3 libmpx2 libquadmath0 libtsan0 libubsan0
manpages-dev

0 upgraded, 26 newly installed, 0 to remove and 80 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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](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](http://us-west-2.ec2.archive.ubuntu.com/ubuntu/bionic-updates/main/amd64/gcc) amd64 4:7.4.0-1ubuntu2.3 [5184 B]


```
Get:24 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libc-dev-bin amd64 2.27-3ubuntu1.4 [71.8 kB]
Get:25 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64
libc6-dev amd64 2.27-3ubuntu1.4 [2585 kB]
Get:26 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 manpages-dev
all 4.15-1 [2217 kB]
Fetched 29.6 MB in 1s (56.4 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 (2.30-2ubuntu1~18.04.5) ...
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 80 not upgraded.
Need to get 276 kB of archives.
After this operation, 930 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 libonig4
amd64 6.7.0-1 [119 kB]
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 libjq1 amd64
1.5+dfsg-2 [111 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 jq amd64
1.5+dfsg-2 [45.6 kB]
Fetched 276 kB in 0s (15.1 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.
--2021-09-24 09:55:46-- https://dl.google.com/go/go1.13.9.linux-amd64.tar.gz
Resolving dl.google.com (dl.google.com)... 142.250.217.110, 2607:f8b0:400a:806::200e
Connecting to dl.google.com (dl.google.com)|142.250.217.110|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 120139686 (115M) [application/octet-stream]
Saving to: '/tmp/go1.13.9.linux-amd64.tar.gz'

go1.13.9.linux-amd64.tar.gz
100%[=====
=====>] 114.57M  35.6MB/s   in 3.2s

2021-09-24 09:55:50 (35.6 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-172-31-17-139:~$ echo export PATH=$PATH:/usr/local/go/bin\ >> ~/.profile
ubuntu@ip-172-31-17-139:~$ echo cd \${HOME}/go/src/k8s.io/arktos >> ~/.profile
ubuntu@ip-172-31-17-139:~$ source ~/.profile
ubuntu@ip-172-31-17-139:~/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,QPSDoubleRSCont
roller=true,MandatoryArktosNetwork=true
DBG: effective disabling admission plugins
DBG: effective default network template file is
/home/ubuntu/go/src/k8s.io/arktos/hack/testdata/default-flat-network.tpl
DBG: kubelet arg RESOLV_CONF is /run/systemd/resolve/resolve.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...
--2021-09-24 10:03:50--
https://github.com/containerd/containerd/releases/download/v1.4.2/containerd-1.4.2-li
nux-amd64.tar.gz
Resolving github.com (github.com)... 192.30.255.112
Connecting to github.com (github.com)|192.30.255.112|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location:
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-ed435a
7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20210
924%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20210924T100350Z&X-Amz-Expires=300&X-A
mz-Signature=36864378a93ea8e469be8880ef6d77c025f655da794beee18fac5f883bf927ea&X-Amz-S
ignedHeader=
rs=host&actor_id=0&key_id=0&repo_id=46089560&response-content-disposition=attachment%
3B%20filename%3Dcontainerd-1.4.2-linux-amd64.tar.gz&response-content-type=application
%2Foctet-stream [following]
--2021-09-24 10:03:50--
https://github-releases.githubusercontent.com/46089560/5cad0000-2fc0-11eb-8e3a-ed435a
7b945c?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4C
SVEH53A%2F20210924%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20210924T100350Z&X-Amz-
Expires=300&X-Amz-Signature=36864378a93ea8e469be8880ef6d77c025f655da794beee18fac5f883
bf927ea&X-
Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=46089560&response-content-disposit
ion=attachment%3B%20filename%3Dcontainerd-1.4.2-linux-amd64.tar.gz&response-content-t
ype=applic
ation%2Foctet-stream
Resolving github-releases.githubusercontent.com
(github-releases.githubusercontent.com)... 185.199.110.154, 185.199.109.154,
185.199.108.154, ...
Connecting to github-releases.githubusercontent.com
(github-releases.githubusercontent.com)|185.199.110.154|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 31160021 (30M) [application/octet-stream]
Saving to: '/home/ubuntu/arktos-containerd/containerd-1.4.2-linux-amd64.tar.gz'

containerd-1.4.2-linux-amd64.tar.gz
100%[=====] 29.72M 57.0MB/s in 0.5s

```

2021-09-24 10:03:51 (57.0 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

--2021-09-24 10:04:06--

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

Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.109.133,
185.199.110.133, 185.199.111.133, ...

Connecting to raw.githubusercontent.com

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

HTTP request sent, awaiting response... 200 OK

Length: 6578 (6.4K) [text/plain]

Saving to: '/tmp/libvirt-qemu'

/tmp/libvirt-qemu

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

2021-09-24 10:04:06 (60.7 MB/s) - '/tmp/libvirt-qemu' saved [6578/6578]

Getting runtime deployment file libvirtd

--2021-09-24 10:04:06--

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,
185.199.111.133, 185.199.110.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.108.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 1617 (1.6K) [text/plain]

Saving to: '/tmp/libvirtd'

/tmp/libvirtd

100%[=====]
=====>] 1.58K --.-KB/s in 0s

2021-09-24 10:04:06 (23.7 MB/s) - '/tmp/libvirtd' saved [1617/1617]

Getting runtime deployment file virtlet

--2021-09-24 10:04:06--

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,
185.199.111.133, 185.199.110.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.108.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 2582 (2.5K) [text/plain]
Saving to: '/tmp/virtlet'

/tmp/virtlet

100%[=====]
=====>] 2.52K --.-KB/s in 0s

2021-09-24 10:04:06 (32.7 MB/s) - '/tmp/virtlet' saved [2582/2582]

Getting runtime deployment file vms

--2021-09-24 10:04:06--

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, 185.199.111.133, 185.199.110.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.108.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 485 [text/plain]

Saving to: '/tmp/vms'

/tmp/vms

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

2021-09-24 10:04:07 (24.8 MB/s) - '/tmp/vms' saved [485/485]

Getting runtime deployment file vmruntime.yaml

--2021-09-24 10:04:07--

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, 185.199.111.133, 185.199.110.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.108.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

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

Saving to: '/tmp/vmruntime.yaml'

/tmp/vmruntime.yaml

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

2021-09-24 10:04:07 (73.6 MB/s) - '/tmp/vmruntime.yaml' saved [11643/11643]

Getting runtime deployment file images.yaml

--2021-09-24 10:04:07--

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, 185.199.111.133, 185.199.110.133, ...

Connecting to raw.githubusercontent.com

(raw.githubusercontent.com)|185.199.108.133|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 254 [text/plain]

Saving to: '/tmp/images.yaml'

/tmp/images.yaml

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

2021-09-24 10:04:07 (14.6 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'

+++ [0924 10:04:14] Building go targets for linux/amd64:

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

+++ [0924 10:04:14] Building go targets for linux/amd64:

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

+++ [0924 10:04:14] Building go targets for linux/amd64:

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

+++ [0924 10:04:14] Building go targets for linux/amd64:

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

+++ [0924 10:04:17] Building go targets for linux/amd64:

./vendor/github.com/go-bindata/go-bindata/go-bindata

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

Running copyright check for repo: /home/ubuntu/go/src/k8s.io/arktos, logging to
_output/ArktosCopyrightTool.log

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

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

warning: you may want to set your diff.renameLimit variable to at least 3063 and retry
the command.

~/go/src/k8s.io/arktos

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

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

warning: you may want to set your diff.renameLimit variable to at least 3063 and retry
the command.

~/go/src/k8s.io/arktos

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

Done.

+++ [0924 10:04:40] 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-linux-amd64.tar.gz succeed
etcd v3.4.3 installed. To use:
export PATH="/home/ubuntu/go/src/k8s.io/arktos/third_party/etcd:${PATH}"
```

The current version is 3.4.3

```
API SERVER insecure port is free, proceeding...
API SERVER secure port is free, proceeding...
Unable to successfully run 'cfssl' from
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/usr/local/go/bin:/home/ubuntu/go/src/k8s.io/arktos/third_party/etcd; downloading instead...
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left     Speed

  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--    0
100  623 100  623    0     0  2062      0 --:--:-- --:--:-- --:--:--  2062
100 9.8M 100 9.8M    0     0 14.5M      0 --:--:-- --:--:-- --:--:-- 86.6M
% 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  2322      0 --:--:-- --:--:-- --:--:--  2322
100 2224k 100 2224k    0     0 3944k      0 --:--:-- --:--:-- --:--:-- 3944k
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-172-31-17-139 --listen-peer-urls http://172.31.17.139:2380
--advertise-client-urls http://172.31.17.139:2379 --data-dir /tmp/tmp.znxE6qhEtr
--listen-client-urls http://172.31.17.139:2379,http://127.0.0.1:2379
--listen-peer-urls http://172.31.17.139:2380 --debug > "/tmp/etcd.log" 2>/dev/null
Waiting for etcd to come up.
+++ [0924 10:07:06] On try 2, etcd: : {"health":"true"}
{"header":{"cluster_id":"3014783091923292124","member_id":"13395361520803740161","revision":"2","raft_term":"2"}}Starting 1 kube-apiserver instances. If you want to make
changes to the kube-apiserver number, 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
140115578962368: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
140523979960768: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
139631490490816: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'
-----
2021/09/24 10:07:06 [INFO] generate received request
2021/09/24 10:07:06 [INFO] received CSR
2021/09/24 10:07:06 [INFO] generating key: rsa-2048
2021/09/24 10:07:07 [INFO] encoded CSR
2021/09/24 10:07:07 [INFO] signed certificate with serial number
569292869197192788302249015403435876881609985610
2021/09/24 10:07:07 [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").
2021/09/24 10:07:07 [INFO] generate received request
2021/09/24 10:07:07 [INFO] received CSR
2021/09/24 10:07:07 [INFO] generating key: rsa-2048
2021/09/24 10:07:07 [INFO] encoded CSR
2021/09/24 10:07:07 [INFO] signed certificate with serial number
557835819956719161565482834135303943933238752440
2021/09/24 10:07:07 [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").
2021/09/24 10:07:07 [INFO] generate received request
2021/09/24 10:07:07 [INFO] received CSR
2021/09/24 10:07:07 [INFO] generating key: rsa-2048
2021/09/24 10:07:08 [INFO] encoded CSR
2021/09/24 10:07:08 [INFO] signed certificate with serial number
262483108386741250742223198317090590922438397909
2021/09/24 10:07:08 [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").

2021/09/24 10:07:08 [INFO] generate received request

2021/09/24 10:07:08 [INFO] received CSR

2021/09/24 10:07:08 [INFO] generating key: rsa-2048

2021/09/24 10:07:08 [INFO] encoded CSR

2021/09/24 10:07:08 [INFO] signed certificate with serial number

120256154942052187449562020754484328725647928542

2021/09/24 10:07:08 [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").

2021/09/24 10:07:08 [INFO] generate received request

2021/09/24 10:07:08 [INFO] received CSR

2021/09/24 10:07:08 [INFO] generating key: rsa-2048

2021/09/24 10:07:08 [INFO] encoded CSR

2021/09/24 10:07:08 [INFO] signed certificate with serial number

444862287007301622924349720525292328096037020396

2021/09/24 10:07:08 [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").

2021/09/24 10:07:08 [INFO] generate received request

2021/09/24 10:07:08 [INFO] received CSR

2021/09/24 10:07:08 [INFO] generating key: rsa-2048

2021/09/24 10:07:09 [INFO] encoded CSR

2021/09/24 10:07:09 [INFO] signed certificate with serial number

55250516046477240742415533472488154319751257971

2021/09/24 10:07:09 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for

websites. For more information see the Baseline Requirements for the Issuance and
Management

of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);

specifically, section 10.2.3 ("Information Requirements").

2021/09/24 10:07:09 [INFO] generate received request

2021/09/24 10:07:09 [INFO] received CSR

2021/09/24 10:07:09 [INFO] generating key: rsa-2048

2021/09/24 10:07:09 [INFO] encoded CSR

2021/09/24 10:07:09 [INFO] signed certificate with serial number

383087859399163038487976998538225343657636743289

2021/09/24 10:07:09 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for

websites. For more information see the Baseline Requirements for the Issuance and
Management

of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);

specifically, section 10.2.3 ("Information Requirements").
2021/09/24 10:07:09 [INFO] generate received request
2021/09/24 10:07:09 [INFO] received CSR
2021/09/24 10:07:09 [INFO] generating key: rsa-2048
2021/09/24 10:07:09 [INFO] encoded CSR
2021/09/24 10:07:09 [INFO] signed certificate with serial number
692584360955082337382057759799268298246863138592
2021/09/24 10:07:09 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
2021/09/24 10:07:09 [INFO] generate received request
2021/09/24 10:07:09 [INFO] received CSR
2021/09/24 10:07:09 [INFO] generating key: rsa-2048
2021/09/24 10:07:10 [INFO] encoded CSR
2021/09/24 10:07:10 [INFO] signed certificate with serial number
614093669298884698142638571522332694263980512039
2021/09/24 10:07:10 [WARNING] This certificate lacks a "hosts" field. This makes it
unsuitable for
websites. For more information see the Baseline Requirements for the Issuance and
Management
of Publicly-Trusted Certificates, v.1.1.6, from the CA/Browser Forum
(<https://cabforum.org>);
specifically, section 10.2.3 ("Information Requirements").
Waiting for apiserver to come up
+++ [0924 10:07:19] 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
2021/09/24 10:07:20 [INFO] generate received request
2021/09/24 10:07:20 [INFO] received CSR
2021/09/24 10:07:20 [INFO] generating key: rsa-2048
2021/09/24 10:07:20 [INFO] encoded CSR
2021/09/24 10:07:20 [INFO] signed certificate with serial number
142363735821823545017320392540907220388426825836
2021/09/24 10:07:20 [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.
2021/09/24 10:07:21 [INFO] generate received request
2021/09/24 10:07:21 [INFO] received CSR
2021/09/24 10:07:21 [INFO] generating key: rsa-2048
2021/09/24 10:07:22 [INFO] encoded CSR

```

2021/09/24 10:07:22 [INFO] signed certificate with serial number
329458002312061606415853426851048101042279526938
2021/09/24 10:07:22 [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 ( 13032 ) 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 ...

```

[illegible]

[illegible]

```

Waiting for node ready at api server
Waiting for node ready at api server
Waiting for node ready at api server
Waiting for node ready at api server
Waiting for node ready at api server
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
Waiting for node ready at api server
Waiting for node ready at api server
Waiting for node ready at api server
Waiting for node ready at api server
Waiting for node ready at api server
Waiting for node ready at api server
ip-172-31-17-139 Ready <none> 5m44s v0.8.0
node/ip-172-31-17-139 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 2.2.0-1 from Kata Containers (katacontainers✓) installed

* Checking Kata compatibility

No newer release available time="2021-09-24T10:13:21Z" level=error msg="CPU property not found" arch=amd64 description="Virtualization support" name=vmx pid=4388 source=runtime
 typ e=flag time="2021-09-24T10:13:21Z" 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-r untime pid=4388 source=runtime time="2021-09-24T10:13:21Z"
 level=error msg="kernel property not found" arch=amd64 description="Kernel-based Virtual
 Machine" name=kvm pid=4388 sourc e=runtime type=module

```

time="2021-09-24T10:13:21Z" 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=4388 source=runtime time="2021-09-24T10:13:21Z" level=error
msg="kernel property not found" arch=amd64 description="Host kernel accelerator for
virtio" name=vhost pid=4388 source=runtime type=module
time="2021-09-24T10:13:21Z" 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=4388 source=runtime time="2021-09-24T10:13:21Z"
level=error msg="kernel property not found" arch=amd64 description="Host kernel
accelerator for virtio network" name=vhost_net pid=4388 source=runtime type=module
time="2021-09-24T10:13:21Z" 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=4388 source=runtime
time="2021-09-24T10:13:21Z" level=error msg="kernel property not found"
arch=amd64 description="Host Support for Linux VM Sockets" name=vhost_vsock pid=4388
source=runtime type=module time="2021-09-24T10:13:21Z" level=error msg="Module is n
ot loaded and it can not be inserted. Please consider running with sudo or as root"
arch=amd64 module=kvm_intel name=kata-runtime pid=4388 source=runtime
time="2021-09-24T10:13:21Z" level=error msg="kernel property not found"
arch=amd64 description="Intel KVM" name=kvm_intel pid=4388 source=runtime type=module
time="2021-09-24T10:13:21Z" level=error msg="ERROR: System is not capable of
running Kata Containers" arch=amd64 name=kata-runtime pid=4388 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-172-31-17-139:6443
--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
```