# Arktos deployment with Mizar CNI

**Prepared On-Premises lab machine with below Configuration**

• Processor: x86\_64

• Cores: 8

• Memory: 16 GB RAM

• Hard Disk: 128 GB HDD

• Network: One network adapter with active Internet connection

• Operating System: Ubuntu 18.04 LTS 64-bit

**Step-1** Check the kernel version & update the kernel

uname -a

wget https://raw.githubusercontent.com/CentaurusInfra/mizar/dev-next/kernelupdate.sh

sudo bash kernelupdate.sh

**Output**Text

Description automatically generated

Text

Description automatically generated

**Kernel updated successfully.**

**Step-2**  Clone the Arktos repository and install the required dependencies:

git clone https://github.com/Click2Cloud-Centaurus/arktos.git ~/go/src/k8s.io/arktos -b default-cni-mizar

sudo bash $HOME/go/src/k8s.io/arktos/hack/setup-dev-node.sh

**Output**

Text

Description automatically generated

echo export PATH=$PATH:/usr/local/go/bin\ >> ~/.profile

echo cd \$HOME/go/src/k8s.io/arktos >> ~/.profile

source ~/.profile

Graphical user interface

Description automatically generated with medium confidence

**Step-3** Start Arktos cluster

CNIPLUGIN=mizar ./hack/arktos-up.sh

**Output**

**Failed due to containerd is not running…**

Text

Description automatically generated

Started **containerd** Manually by using command:- **sudo systemctl start containerd and run script again**

**CNIPLUGIN=mizar ./hack/arktos-up.sh**

Text

Description automatically generated

**Deployment Successfully done.**

**Output**

Text

Description automatically generated

### Step-4 Check Cluster health

### Open new terminal for same instance and run following commands:

##### Check node, Pods, Vpc, Subnet, dividers & , bouncers, Net status

### ./cluster/kubectl.sh get nodes

### ./cluster/kubectl.sh get pods -Ao wide

### ./cluster/kubectl.sh get vpc -Ao wide

### ./cluster/kubectl.sh get subnet -Ao wide

### ./cluster/kubectl.sh get dividers -Ao wide

### ./cluster/kubectl.sh get bouncers -Ao wide

### ./cluster/kubectl.sh get net -Ao wide

### Text Description automatically generated