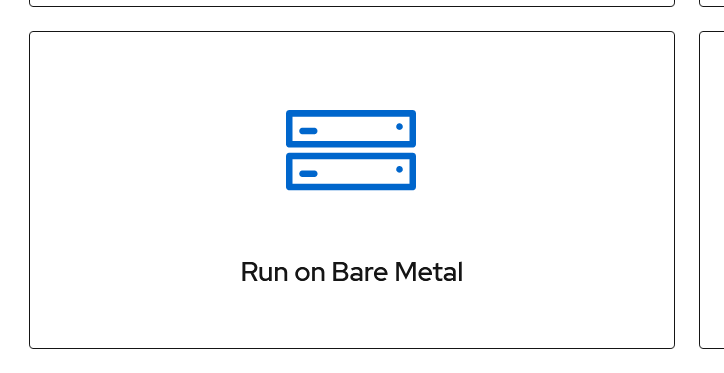
**Create customized ISO to give Boot menu for Installation**

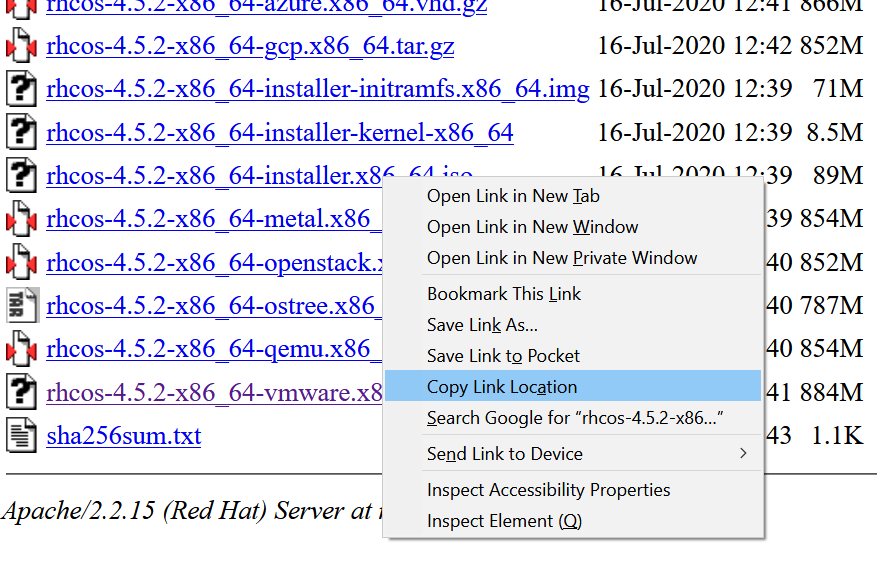
For DHCP download OVA and for Static download ISO from baremetal installation

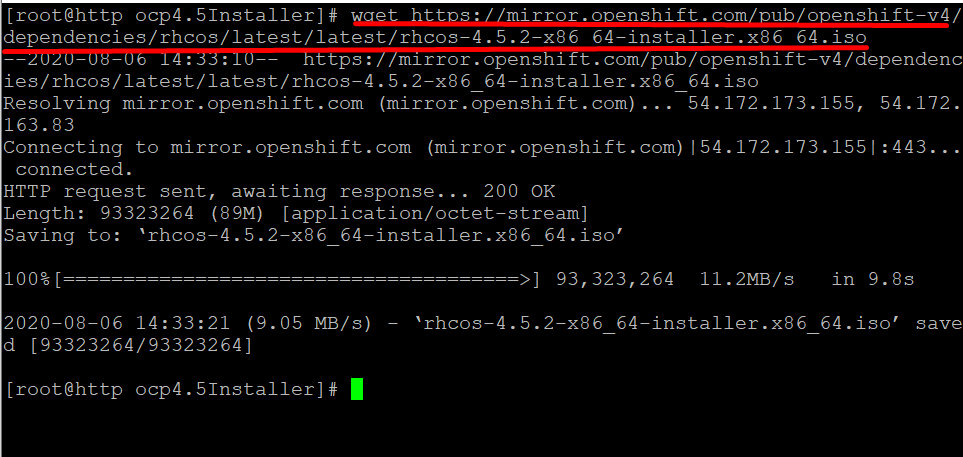
<https://cloud.redhat.com/openshift/install>

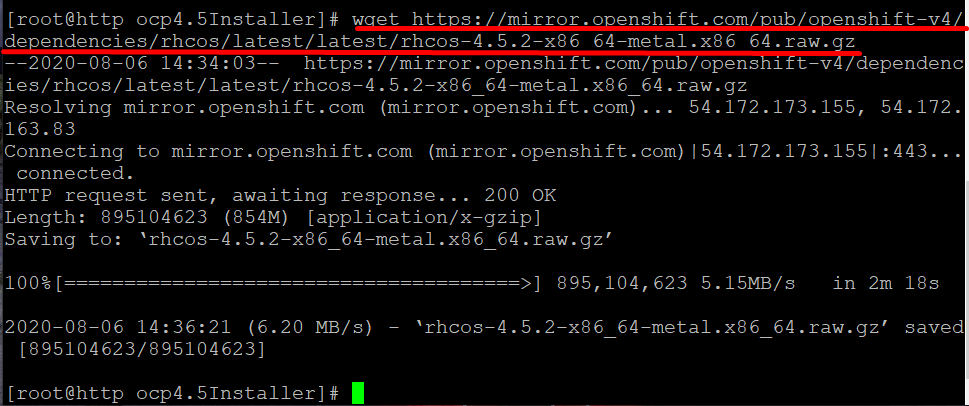




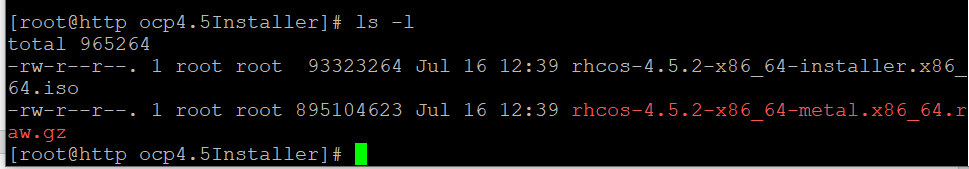
<https://mirror.openshift.com/pub/openshift-v4/dependencies/rhcos/latest/latest/>

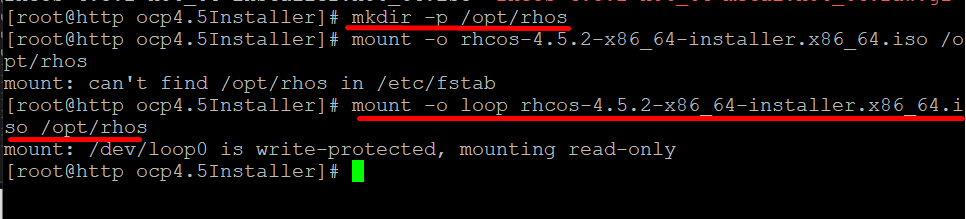


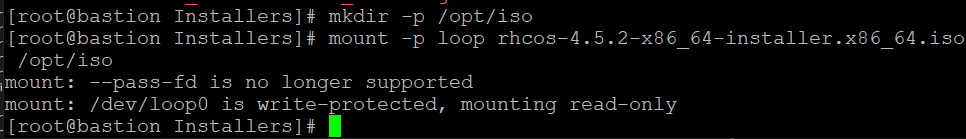


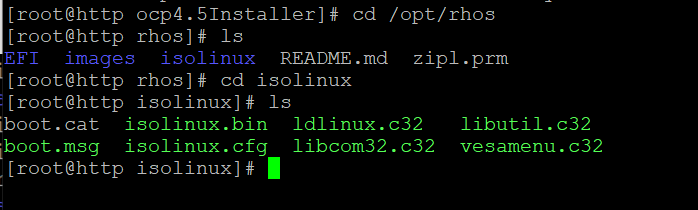


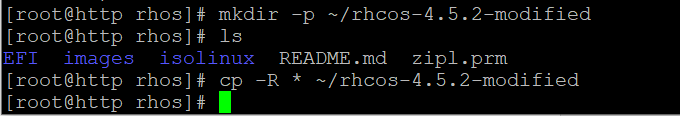
This will complete the download.

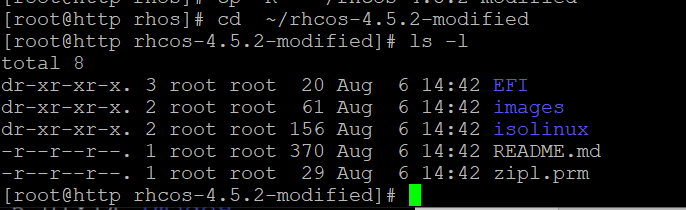


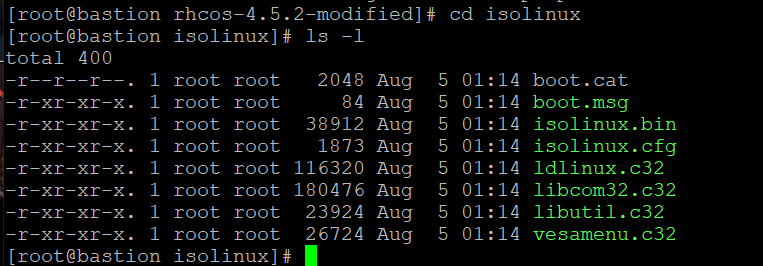


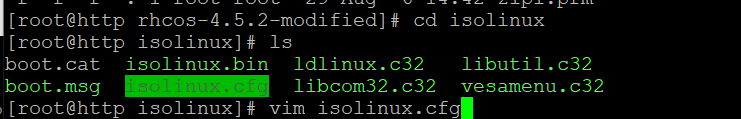


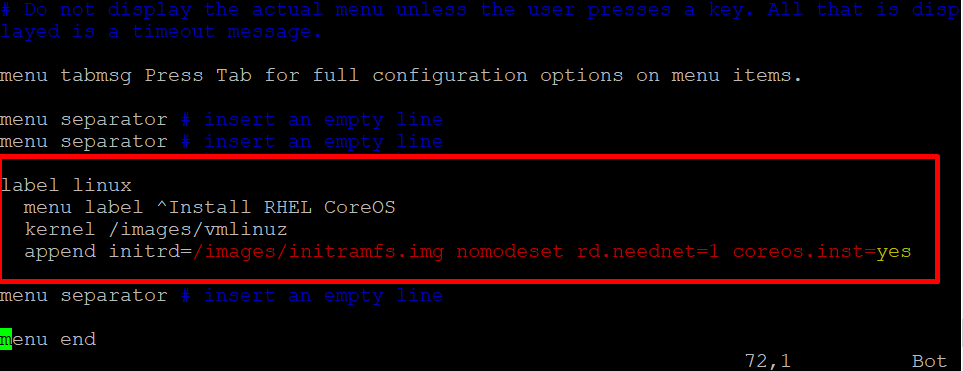






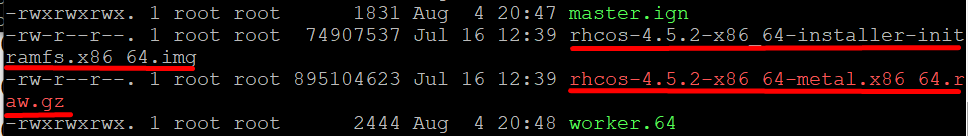




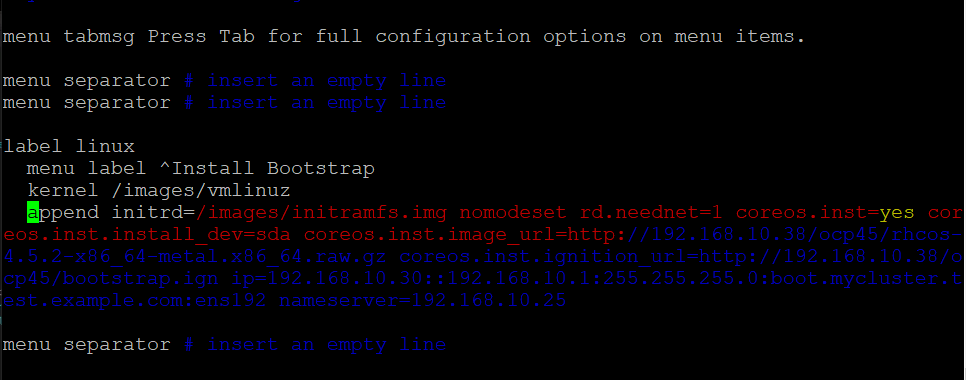


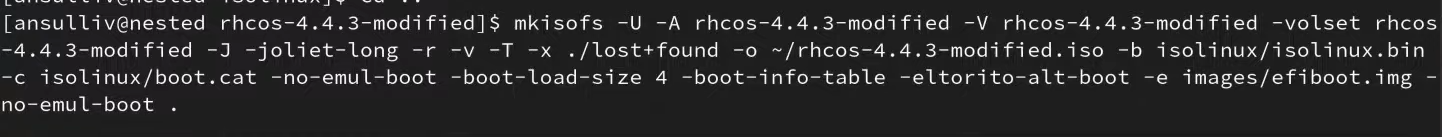
The above is the default file. We will not change this file to meet our requirements.

Download and copy to Web Server



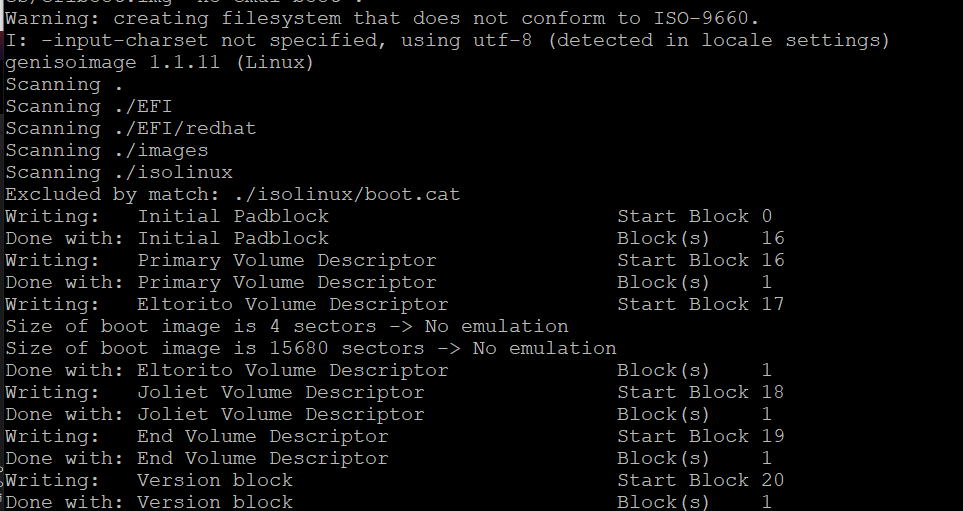
Note: initramfs is needed only during PXE Boot and hence we can ignore these files.

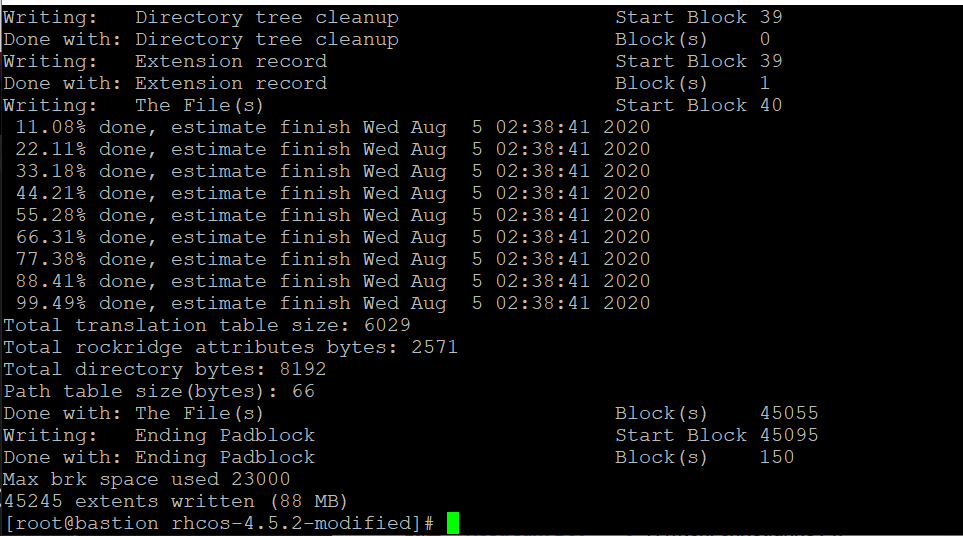


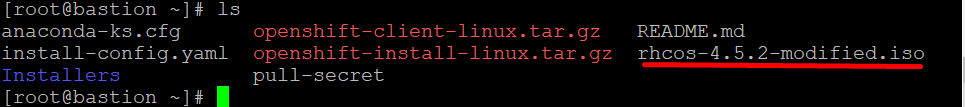


**Command:**

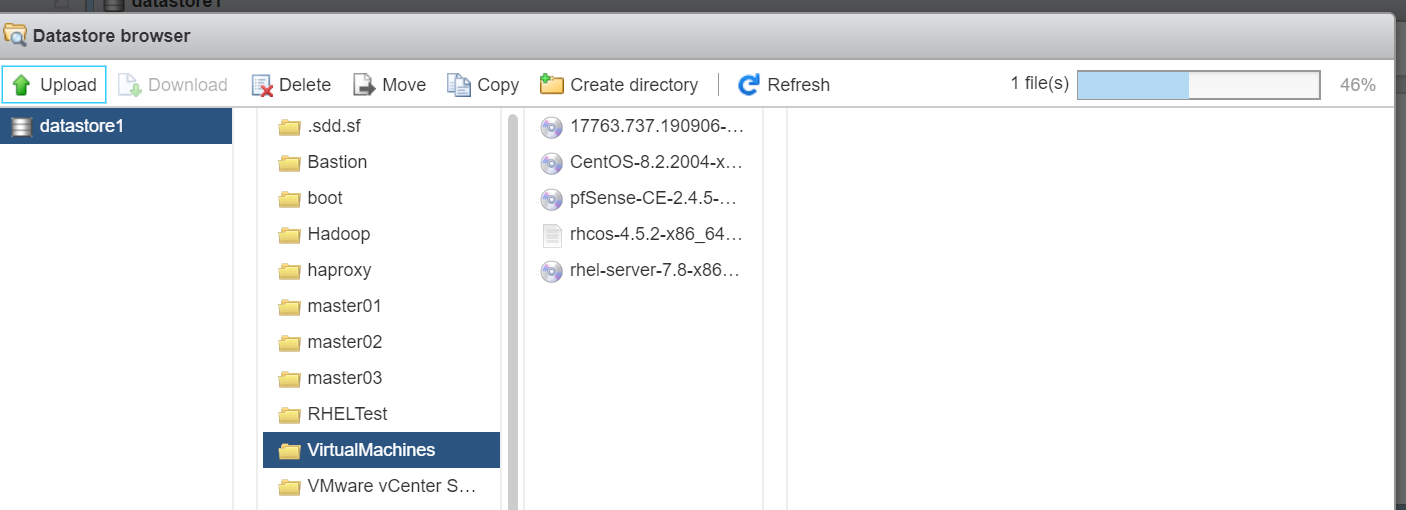
mkisofs -U -A rhcos-4.5.2-modified -V rhcos-4.5.2-modified -volset rhcos-4.5.2-modified -J -joliet-long -r -v -T -x ./lost-found -o ~/rhcos-4.5.2-modified.iso -b isolinux/isolinux.bin -c isolinux/boot.cat -no-emul-boot -boot-load-size 4 -boot-info-table -eltorito-alt-boot -e images/efiboot.img -no-emul-boot .

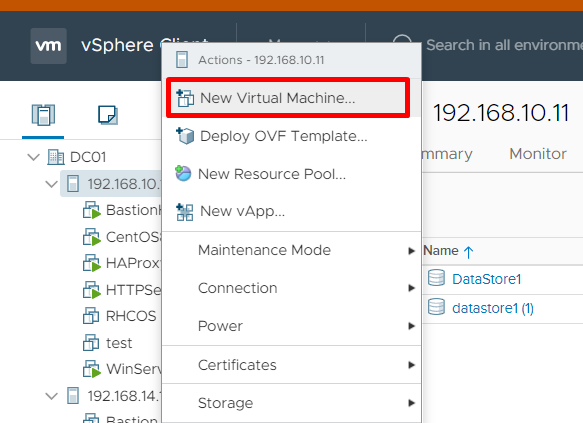


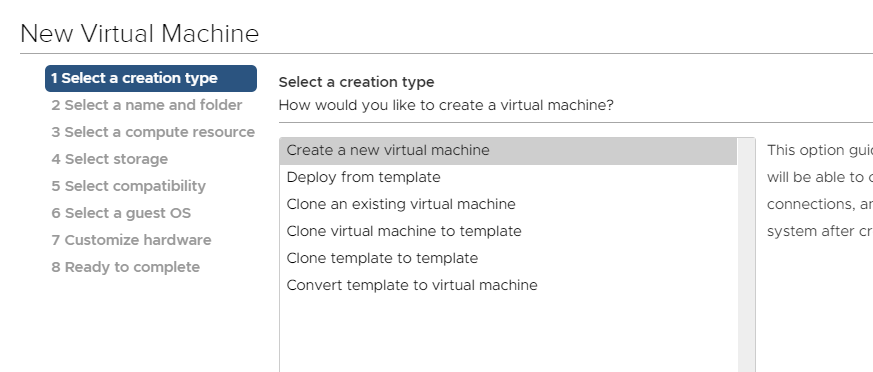


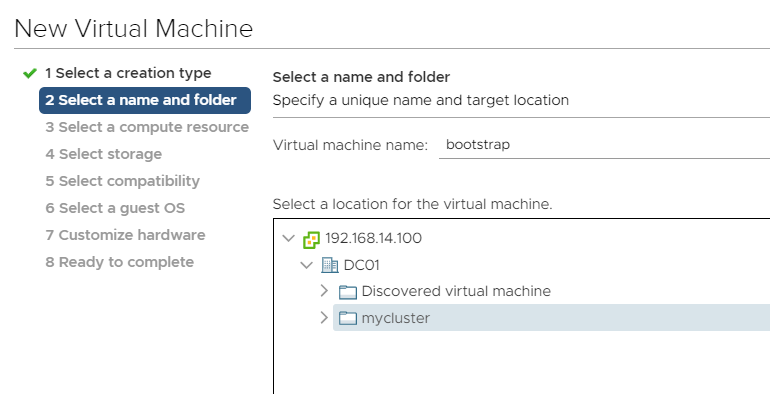


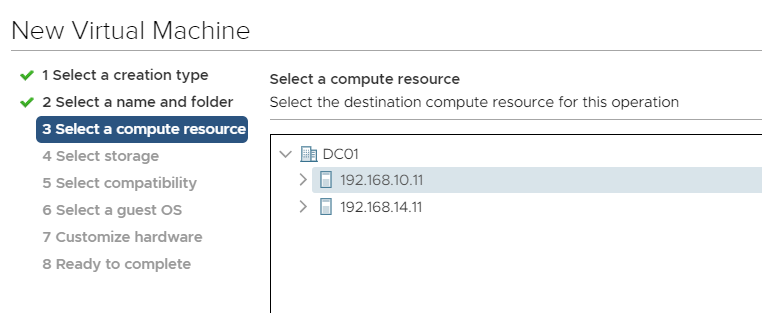
Upload iso to your datastore

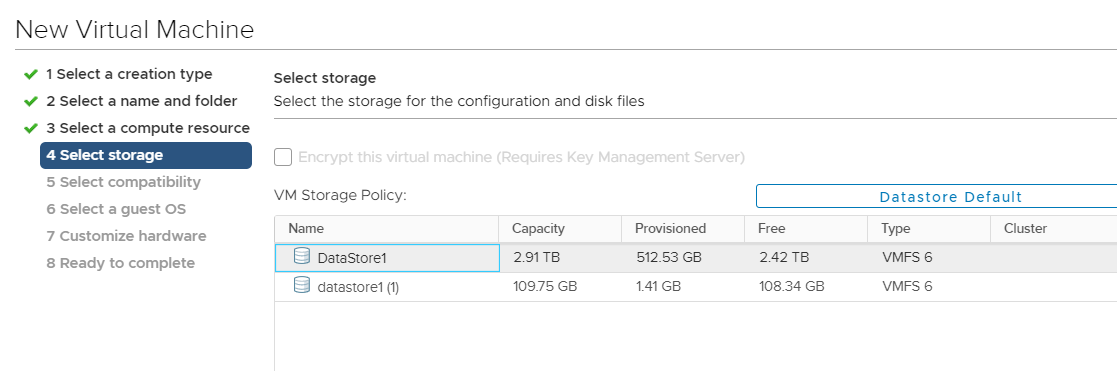


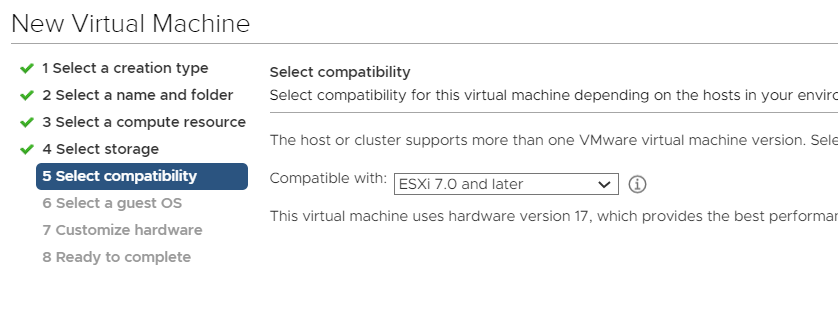


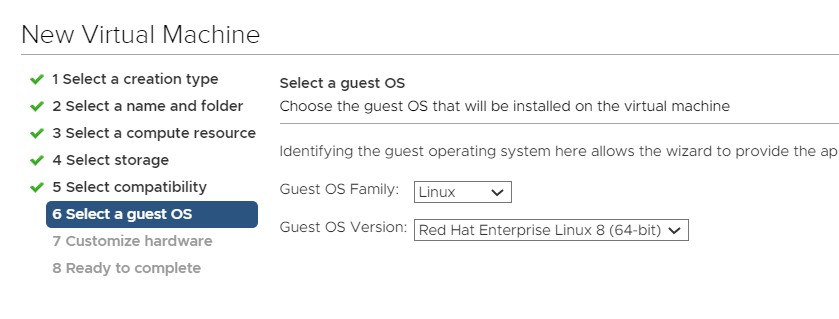


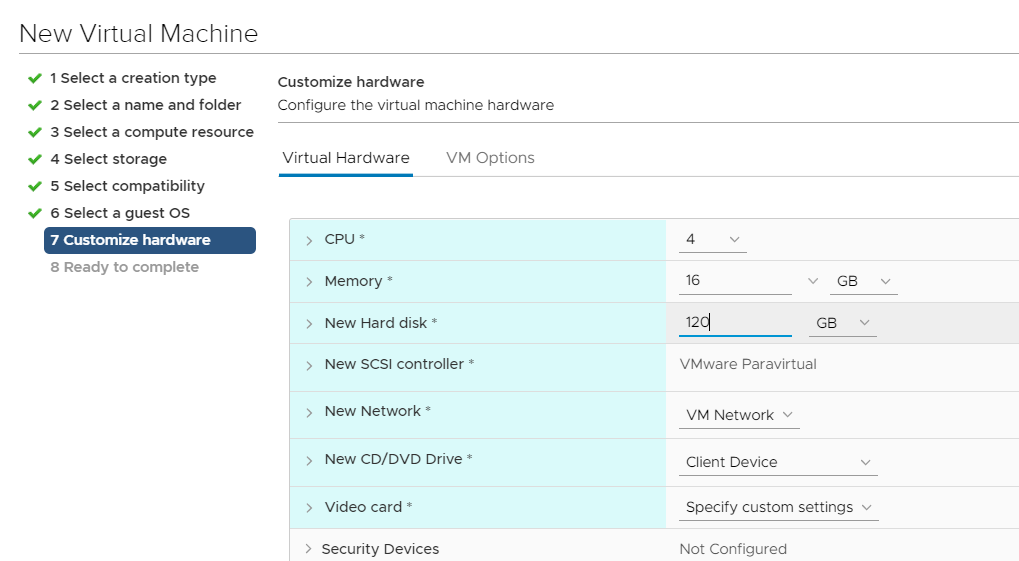




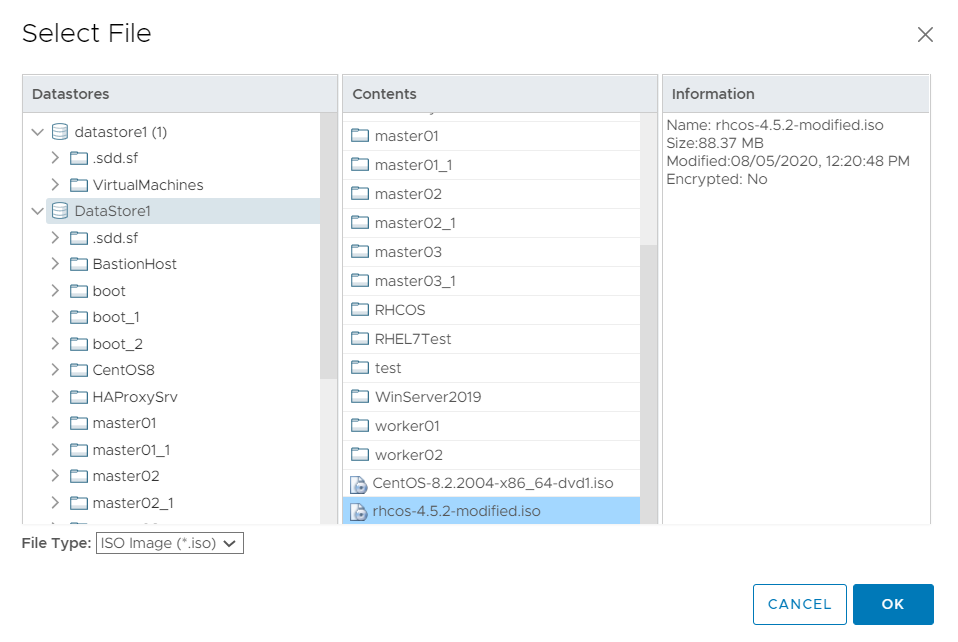


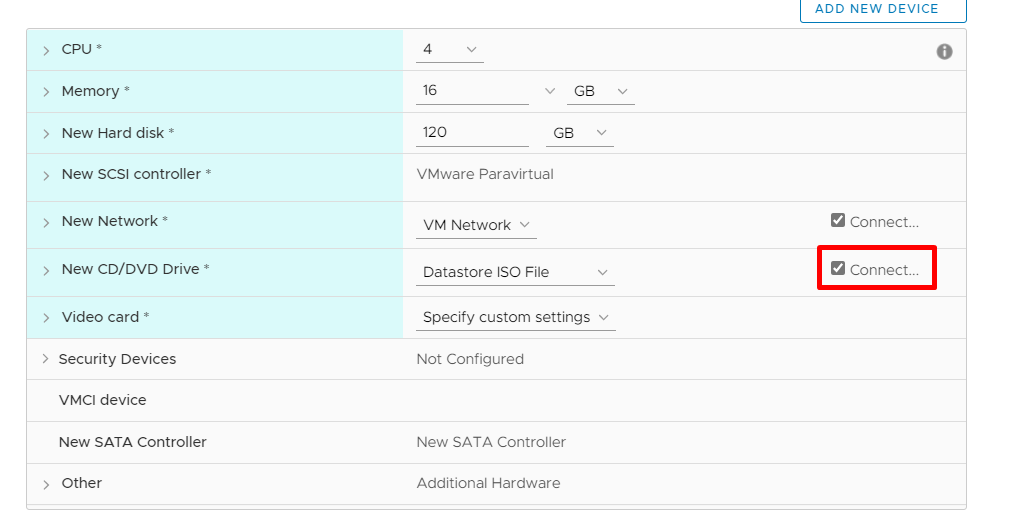




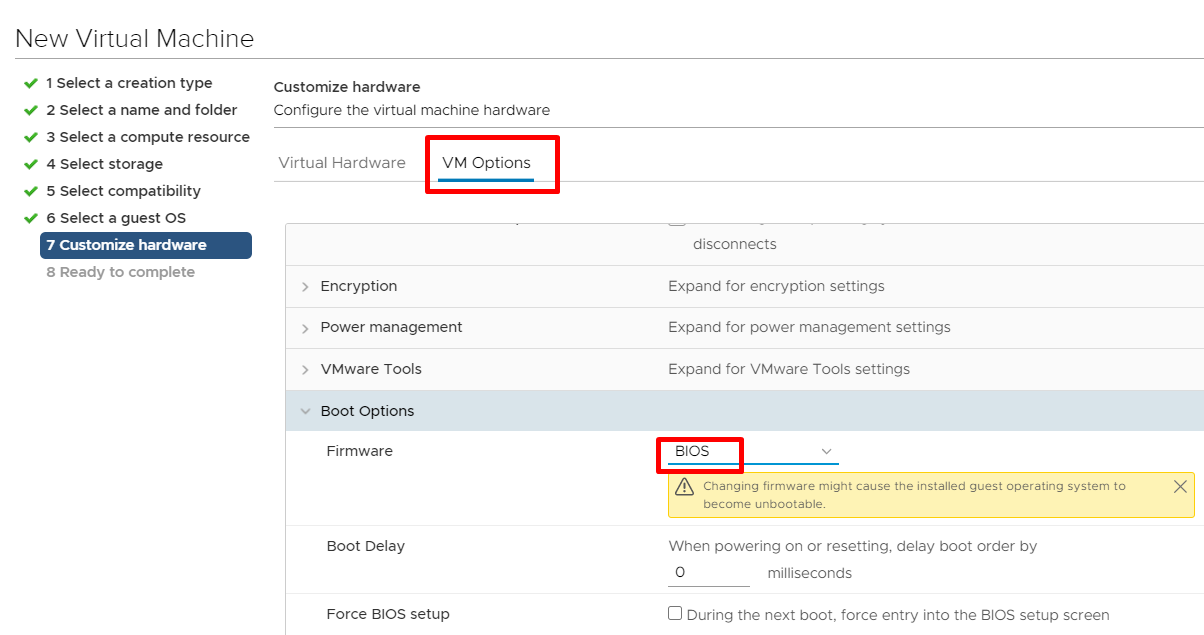


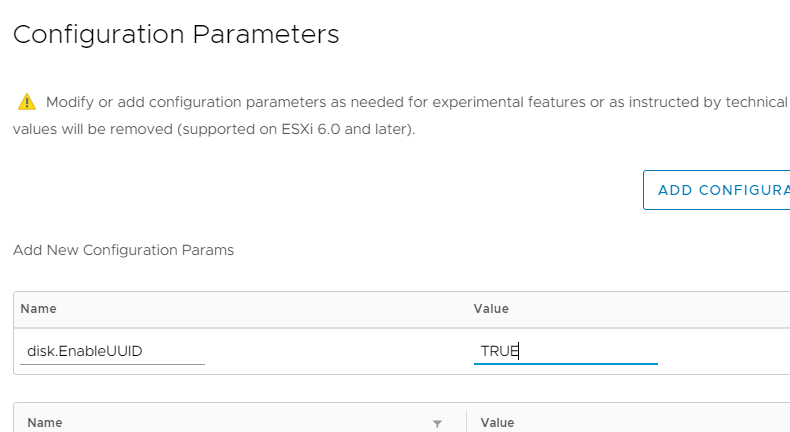
Select DVD to boot from

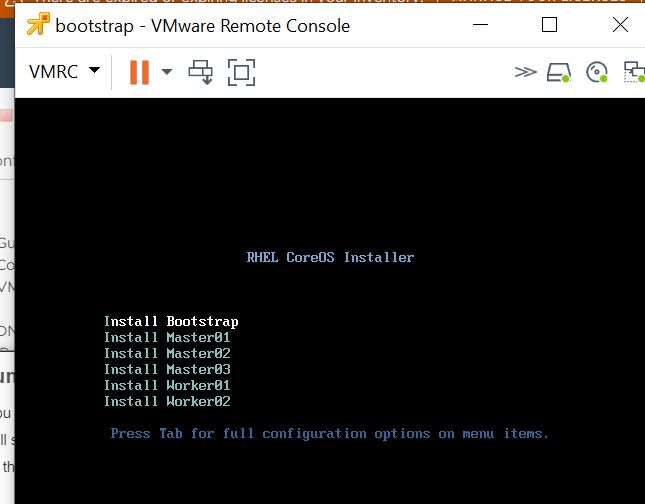


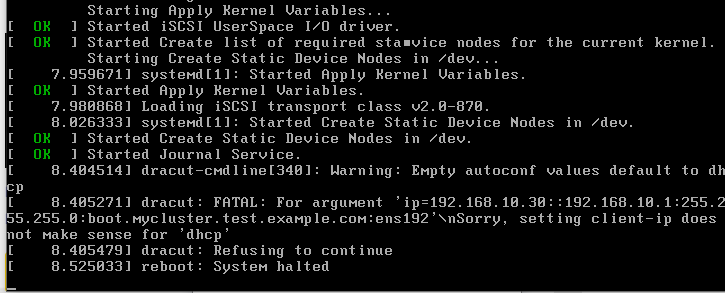


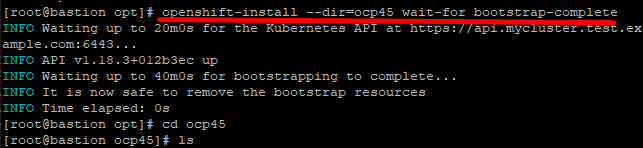
If you will not select “Connect” your VM will be PXE boot and you will not see all the menus instead you will see only selective high level menus.



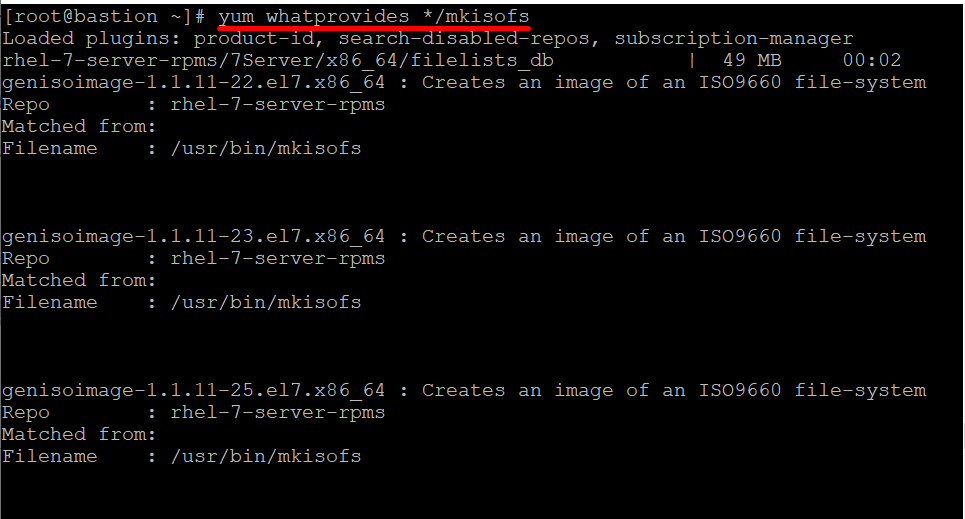


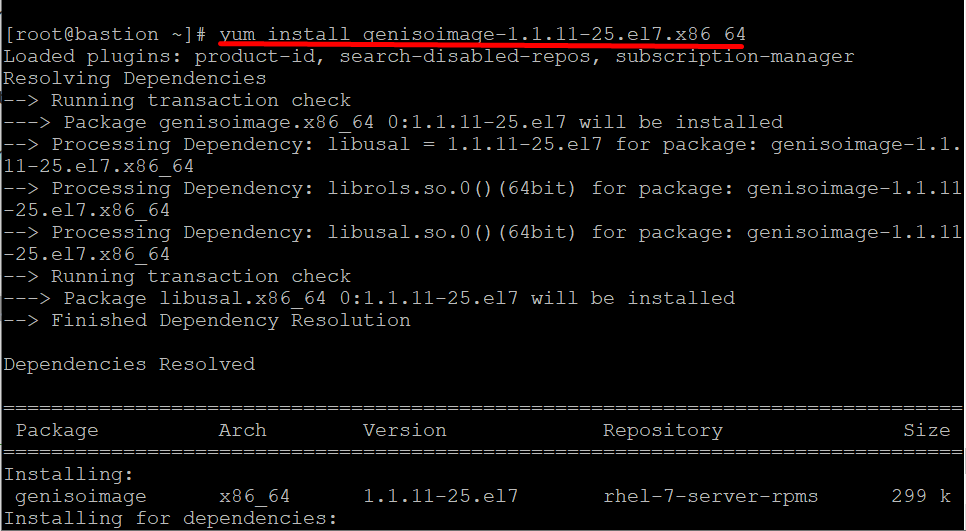






yum whatprovides \*/mkisofs



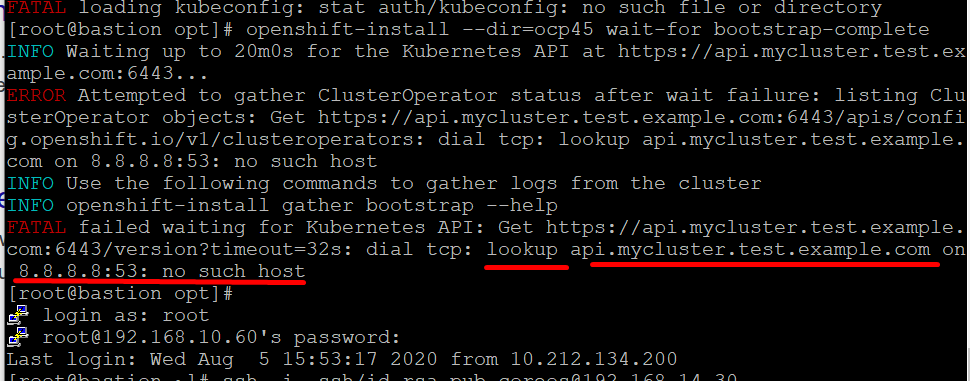


yum install genisoimage-1.1.11-25.el7.x86\_64

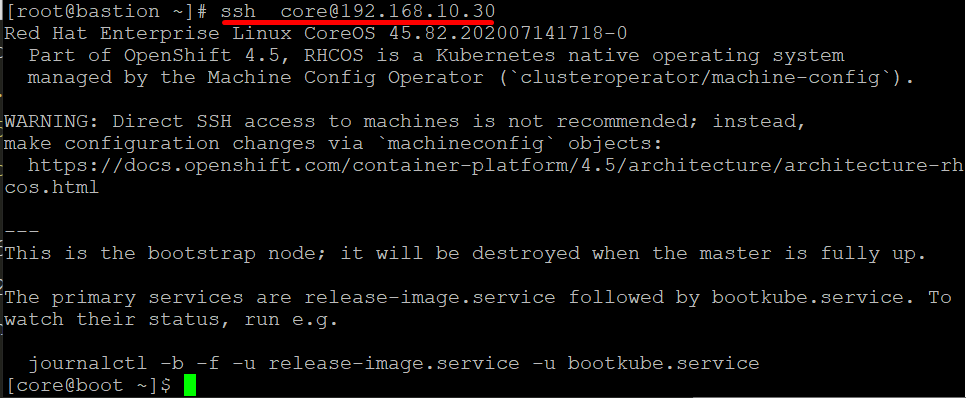
<https://www.youtube.com/watch?v=Be0dRq0wjWE>

<https://bugzilla.redhat.com/show_bug.cgi?format=multiple&id=836039>

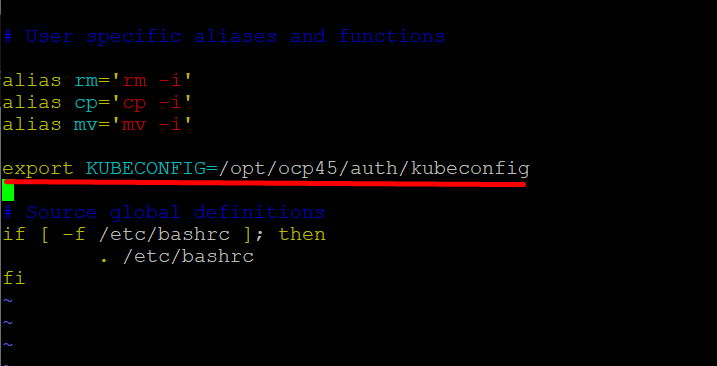
**Debug**



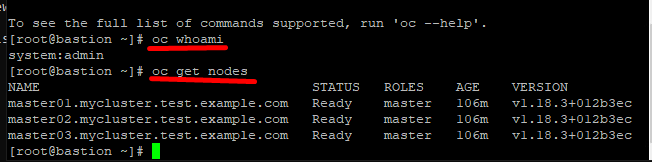
Login into bootstrap node

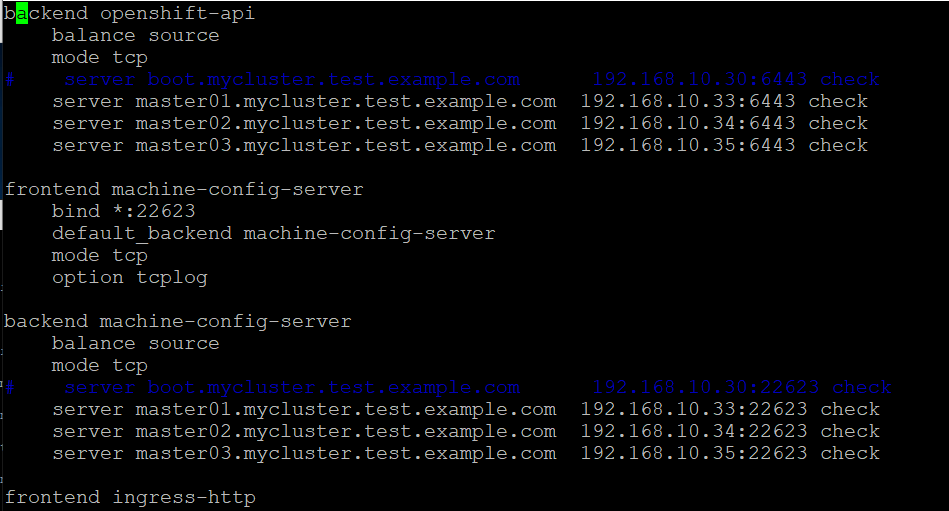


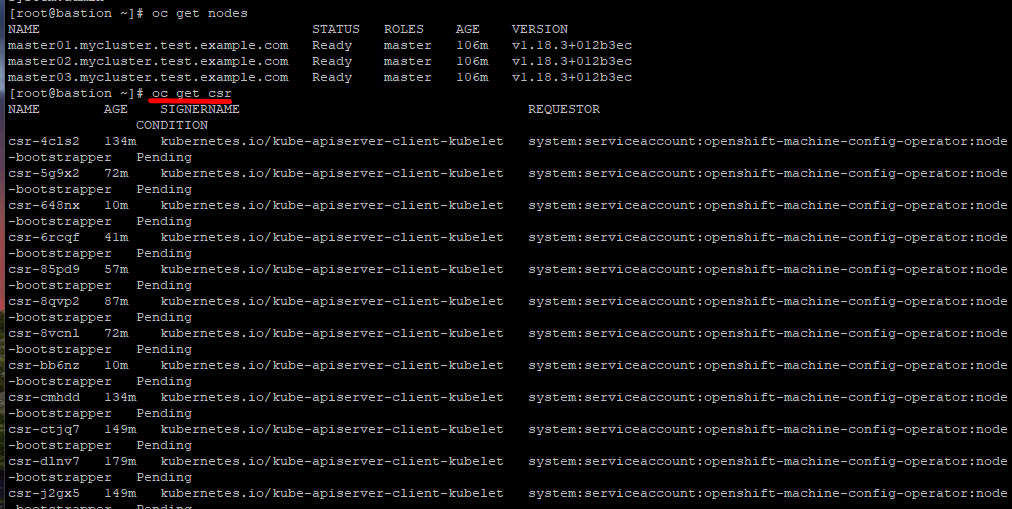
Configure **kubeconfig** in system path:

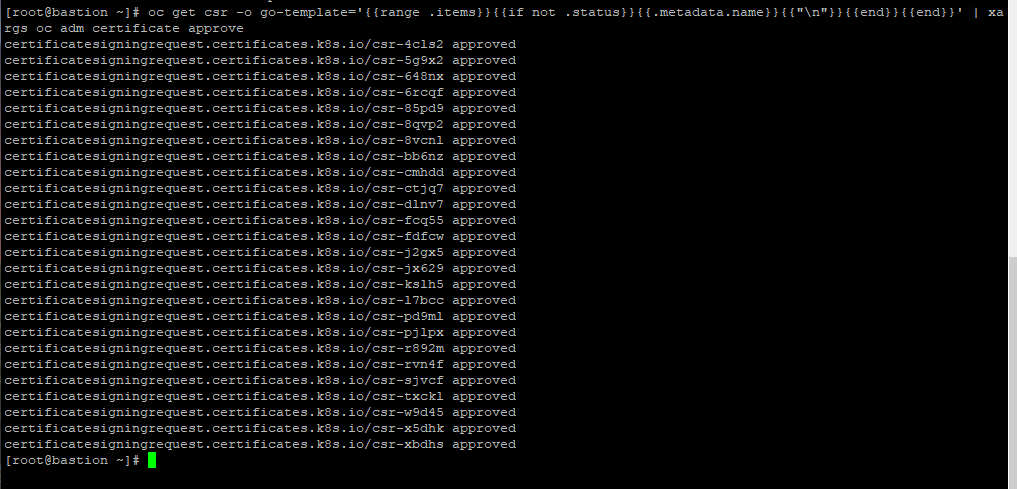


From bastion node run the below command:

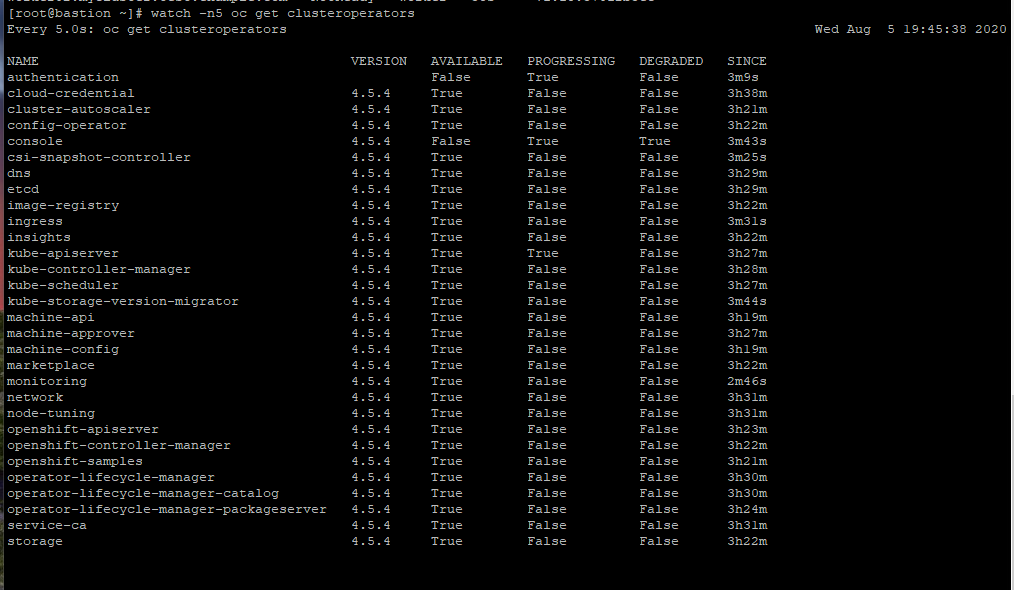






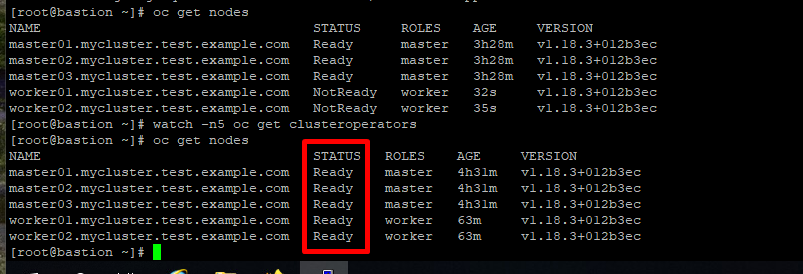


oc get csr -o go-template='{{range .items}}{{if not .status}}{{.metadata.name}}{{"\n"}}{{end}}{{end}}' | xargs oc adm certificate approve



watch -n5 oc get clusteroperators

Once you will see all TRUE in available column you can exit the shell and check nodes status.





apiVersion: v1

baseDomain: test.example.com

compute:

- hyperthreading: Enabled

name: worker

replicas: 0

controlPlane:

hyperthreading: Enabled

name: master

replicas: 3

metadata:

name: mycluster

platform:

vsphere:

vcenter: 192.168.14.100

username: administrator@myvcenter.local

password: Sh@r@d123$

datacenter: DC01

defaultDatastore: datastore1

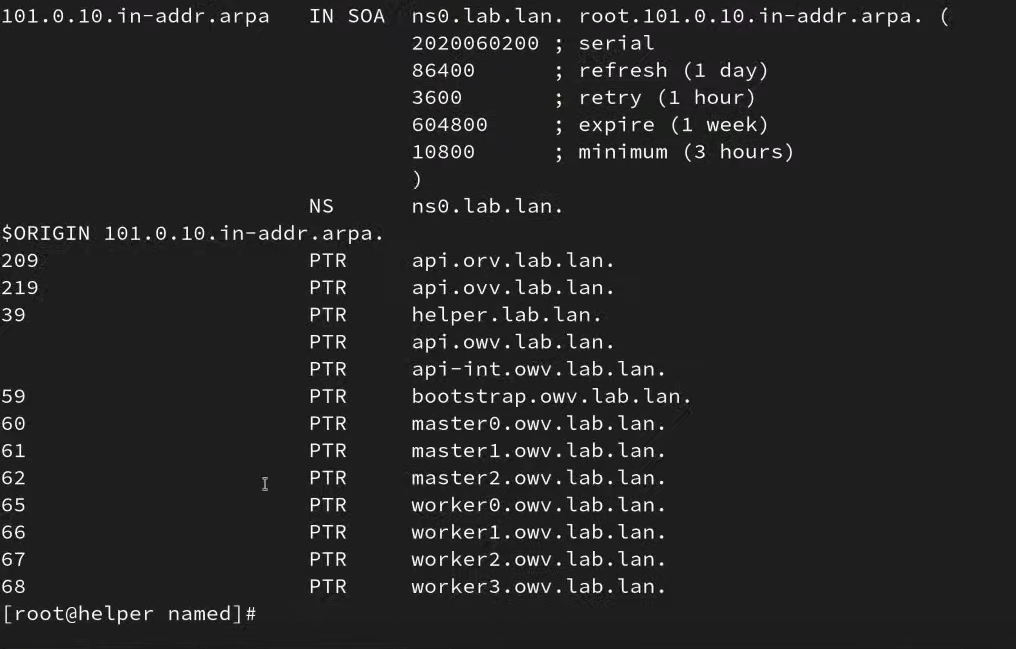
fips: false

pullSecret: '{"auths":{"cloud.openshift.com":{"auth":"b3BlbnNoaWZ0LXJlbGVhc2UtZGV2K3NoYXJhZGlibTFhbG1xOWtlcXlhY3lzNGJlMDJ1dmtqOHZxbzoyVENWNjVPRkhQUURHNFNHQlFNU0gwSEwxNkFYSVIyVEtBSkIwSk1XSjlBWFVROTlWODU0N0xHVTFRT0dWNE1K","email":"schandr1@in.ibm.com"},"quay.io":{"auth":"b3BlbnNoaWZ0LXJlbGVhc2UtZGV2K3NoYXJhZGlibTFhbG1xOWtlcXlhY3lzNGJlMDJ1dmtqOHZxbzoyVENWNjVPRkhQUURHNFNHQlFNU0gwSEwxNkFYSVIyVEtBSkIwSk1XSjlBWFVROTlWODU0N0xHVTFRT0dWNE1K","email":"schandr1@in.ibm.com"},"registry.connect.redhat.com":{"auth":"","email":"schandr1@in.ibm.com"},"registry.redhat.io":{"auth":"","email":"schandr1@in.ibm.com"}}}'

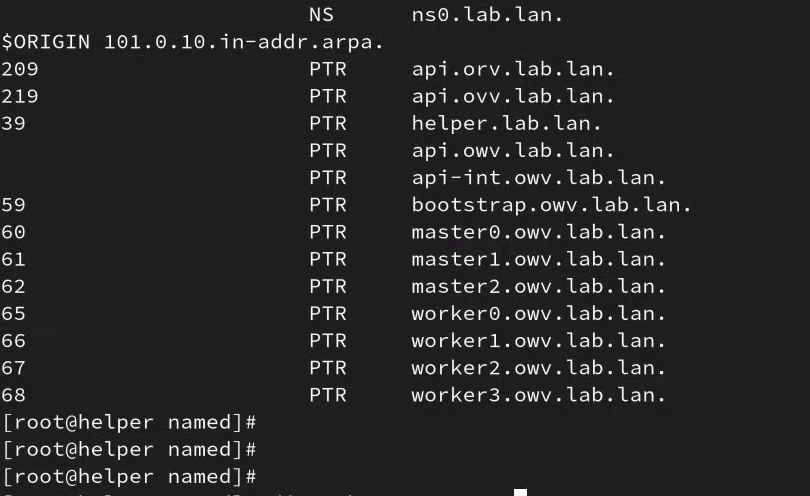
sshKey: 'ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC7eZMmQqyxLcv2F5vobofPRRvNyt628LGCyLrqrpQAV+4c98zCe9mGDPDtnwF4HXBD+UIkeaqZOfDfB+wmVQxkn/dfrmb4uS4zg1ZnNk2rQi4K1YrnlJfy98mT6kFWX1U3kTTJ5XkcJlCR/FLrR/CPurCzYkeWDOj6H4oTxfop60w3qnck90WneAnW9u9nsq9+ohJHXHxOk+xG/KB4w1mtgBY6EJiZUppIm5sk2h4G6w+LElaofqHHi7p/K+y/Ir4ARoAUnWbUTpbcej3goaAvfdA0pHtG+z5oJFFo2freaKMqmRl2c64XQkWoFF/ZJhfuJcR6W3JE+CIH2J9MO8dp root@bastion.mycluster.test.example.com'

**DNS Configuration**

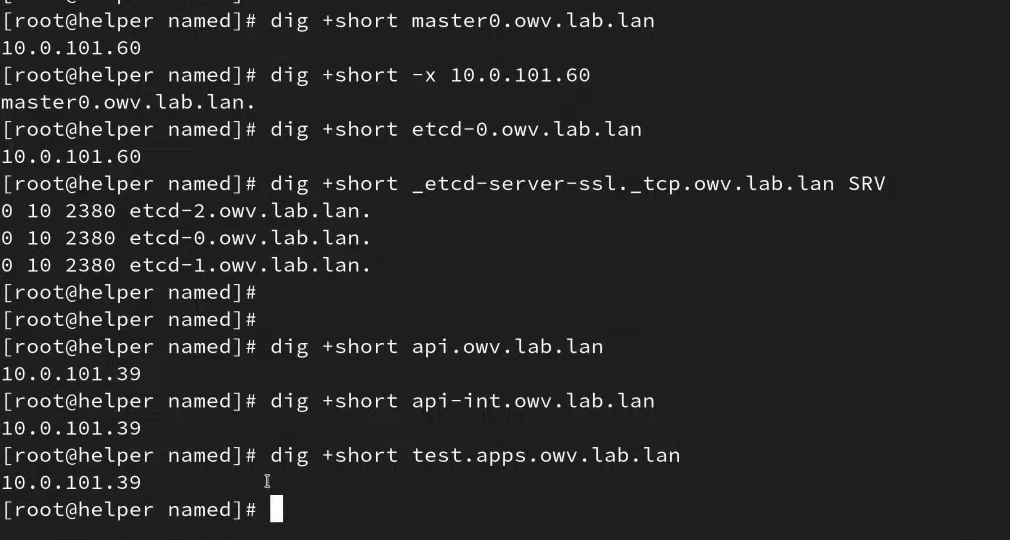
**Forward DNS**



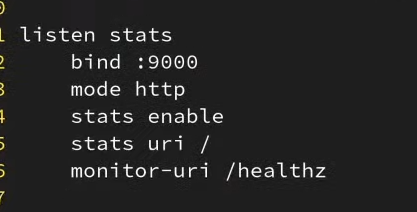
**Reverse DNS**

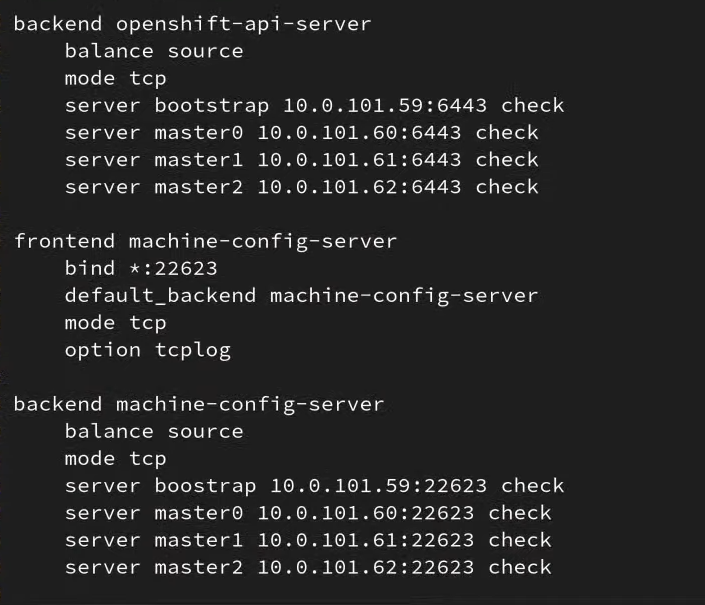


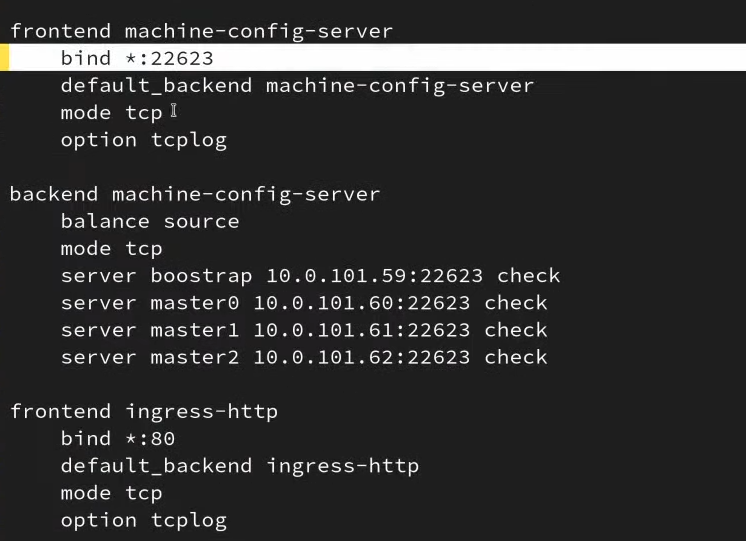
Testing

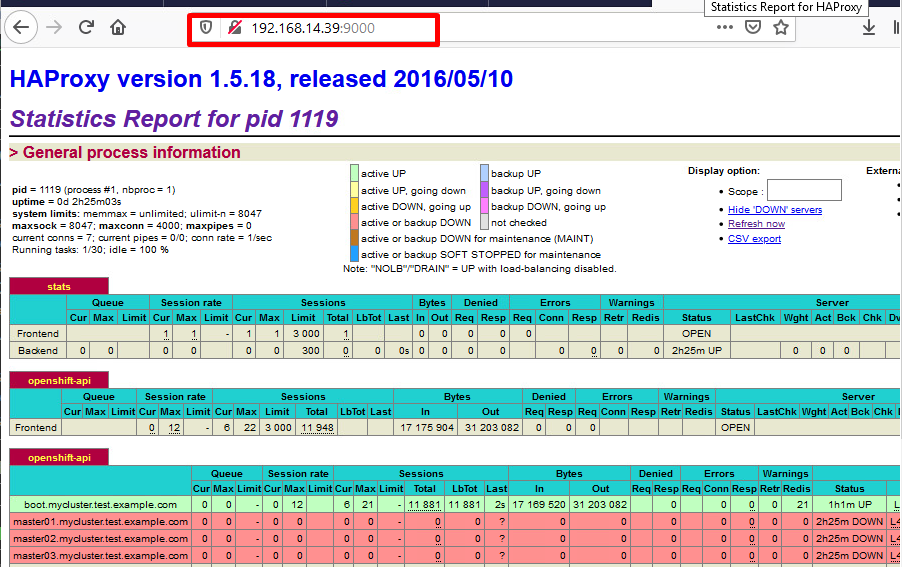


**HAProxy**

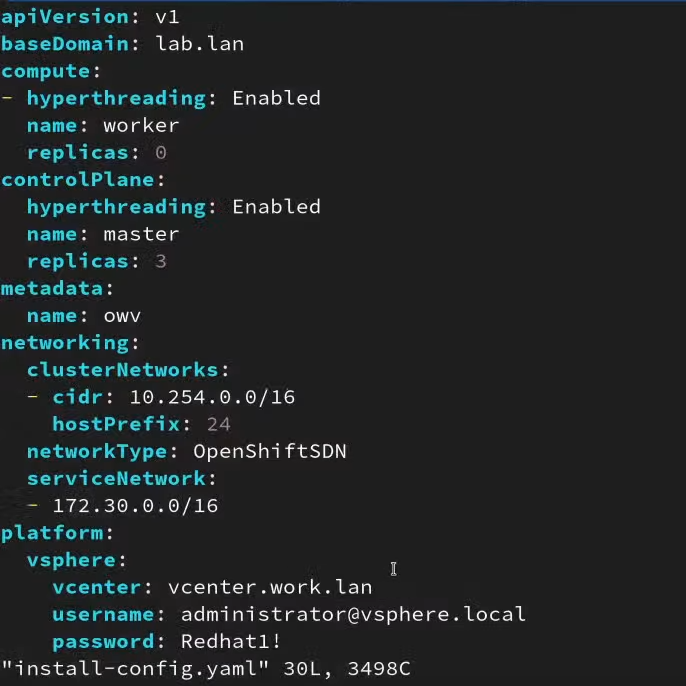


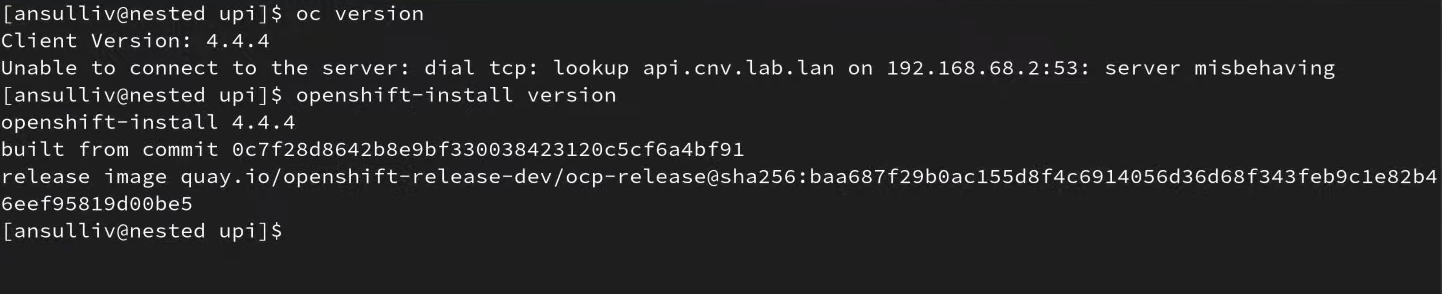


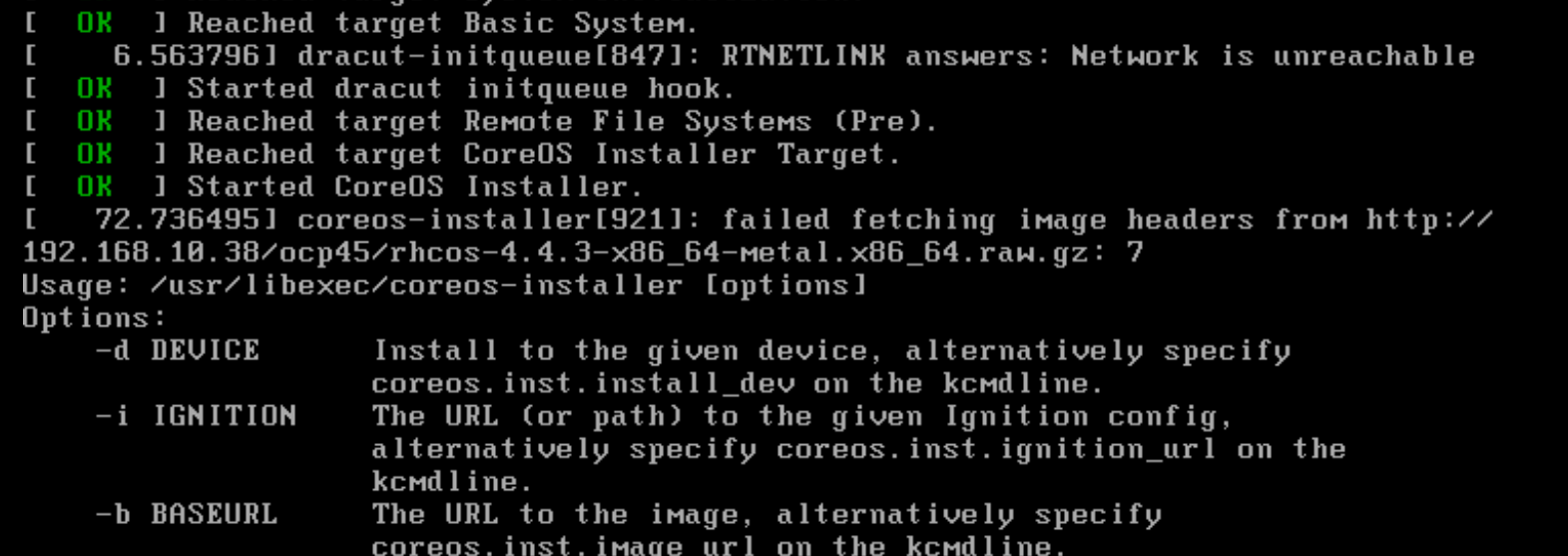




**Install-config.yaml**





 <https://medium.com/@two.oes/openshift-4-in-an-air-gap-disconnected-environment-part-2-installation-1dd8bf085fdd>