

Installing Centos7.x for VERDE (rpm)8.2.x and vGPU

Here are the instructions to get VERDE 8.2.1 and 8.2.2(rpm) and Centos 7 installed.

Burn Centos 7 Minimal to a CD/DVD or USB

- Install the OS
- Select your timezone
- Enable the Network Interface
- Use the entire storage area on the server
- Create a root password
- Allow a reboot and remove the CD/DVD or USB

- Modify the network interface configuration file:
- vi /etc/sysconfig/network-scripts/ifcfg-eth0

See red, bolded and italicized:

```
TYPE="Ethernet"
PROXY_METHOD="none"
BROWSER_ONLY="no"
BOOTPROTO="static"
DEFROUTE="yes"
IPV4_FAILURE_FATAL="no"
IPADDR=192.168.0.12
IPV6INIT="yes"
IPV6_AUTOCONF="yes"
IPV6_DEFROUTE="yes"
IPV6_FAILURE_FATAL="no"
IPV6_ADDR_GEN_MODE="stable-privacy"
NAME="eth0"
UUID="25eaf7c3-32c5-4d30-8841-39294b1881d1"
DEVICE="eth0"
ONBOOT="yes"
```

Define the Gateway:

```
vi /etc/sysconfig/network
# Created by anaconda
NETWORKING=yes
HOSTNAME=localhost.localdomain
GATEWAY=192.168.0.1
```

Restart the networking service:

```
/etc/init.d/network restart
```

Auto populate the /etc/resolv.conf by typing the following:

```
dhclient
```

Manually modify /etc/resolv.conf to include your DNS server:

```
vi /etc/resolv.conf
```

```
; generated by /usr/sbin/dhclient-script
nameserver 192.168.0.13 <-----DNS IP Address
nameserver 209.18.47.62
nameserver 209.18.47.63
```

Create the following file via the vi command:

```
vi /etc/security/limits.d/95-verde.conf
```

Add the following lines of data:

```
* - nproc -1
* - nofile 65535
```

Manually disable SELinux by editing the file

```
vi /etc/sysconfig/selinux
```

Change the following line to:

```
SELINUX=disabled
```

Create the vb-verde user and add it to the root group with the following two lines of commands:

```
useradd vb-verde
usermod -G root vb-verde
```

Run the following linux updates..One at a time:

```
yum -y update
yum -y install epel-release
yum -y --enablerepo=updates --enablerepo=base --assumeyes update openssl
yum -y --enablerepo=updates --enablerepo=base --assumeyes install java-1.8.0-openjdk.x86_64
yum -y --enablerepo=updates --enablerepo=base --assumeyes update libpng
yum -y install gtk2
```

```
yum -y install zip unzip
yum -y install bridge-utils
yum -y install net-tools
yum -y install genisoimage
yum -y install libogg
yum -y install libvorbis
```

NOTE If you're going to have a clustered environment, you should mount the storage at this point. You need to install the following for the mount of NAS/NFS:

```
yum -y install nfs-utils nfs-utils-lib
```

Move/copy the VERDE rpm's to the /root directory and run the following command to install

```
yum --nogpgcheck install *.rpm
```

Configure the VERDE installation. You'll need to select the server's function (Option 2 is CM/MD/VDI), provide the server's IP address and various other functional settings by running the following command:

```
/usr/lib/verde/bin/verde-config -i
```

After the normal configuration, if you plan to support vGPU, follow this link for the additional steps needed:

<https://support.ncomputing.com/portal/kb/articles/configuring-your-verde-8-2-2-rpm-server-to-support-vgpu>

Finally, disable the iptables and access the Management Console:

```
systemctl stop firewalld
systemctl disable firewalld
```

From the browser: <https://<ServerIP>:8443/mc>

IMPORTANT NOTE To stop and start VERDE services please use the following commands:

```
/usr/lib/verde/bin/rc.verde stop
/usr/lib/verde/bin/rc.verde start
```

You can still use:

```
service VERDE status
service LICSRV status
```