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Applications DBA

Author – A.Kishore
<http://www.appsdba.info>

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INSTALLING ORACLE LINUX 8.X FOR ORACLE EBS

Download Oracle Linux 8.x from edelivery.oracle.com. The Oracle Linux 8 installation is pretty much same as Oracle Linux 7 but of course the look of Oracle Linux 8 is great!

I installed Oracle Linux 8 on the Virtual Box. Few settings I have used:

- 1 Network Adapters: Bridged
- 12GB Memory and 2 CPU
- 300 GB Disk Space
- Windows Shared Folder where I have all the software needed

Download Oracle Linux 8.x from edelivery.oracle.com

<https://edelivery.oracle.com/osdc/faces/SoftwareDelivery>

search for "Oracle linux"

Found 155 results

Page Size 50 ▾



DLP: Oracle Linux 9.2.0.0.0 (Oracle Linux)



DLP: Oracle Linux 9.1.0.0.0 (Oracle Linux)



DLP: Oracle Linux 9.0.0.0.0 (Oracle Linux)



DLP: Oracle Linux 8.8.0.0.0 (Oracle Linux)



DLP: Oracle Linux 8.7.0.0.0 (Oracle Linux)



DLP: Oracle Linux 8.6.0.0.0 (Oracle Linux) ✓



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Click Continue

☒ Oracle Linux 8.6.0.0.0	Oracle Standard Terms and Restrictions	May 18, 2022	May 17, 2022
☒ Oracle Linux 8.6.0.0.0	x86 64 bit	29.4 GB	
Back	Remove All	Continue	

☐ Oracle Linux 8.6.0.0.0

☐ Oracle Linux 8.6.0.0.0 for x86 64 bit

☒ **V1020893-01.iso** Oracle Linux Release 8 Update 6 for x86 (64 bit), 10.6 GB

DOWNLOAD ABOVE ISO FILE

INSTALL OEL 8.6 USING ORACLE VIRTUAL BOX

Machines – New

Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

Machine Folder:

Type: 

Version:

[Expert Mode](#) [< Back](#) [Next >](#) [Cancel](#)



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Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **1024 MB**.

4 MB 64512 MB

12952 MB

< Back Next > Cancel



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Create Virtual Machine



Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **12.00 GB**.

☐ Do not add a virtual hard disk

☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

OEL8-disk001.vdi (Normal, 300.00 GB) 

< Back

Create

Cancel

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Create Virtual Hard Disk

A 3D rendering of a hard disk with a blue and orange color scheme.

Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

- ☒ VDI (VirtualBox Disk Image)
- ☐ VHD (Virtual Hard Disk)
- ☐ VMDK (Virtual Machine Disk)

Expert Mode

< Back

Next >

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Create Virtual Hard Disk



Storage on physical hard disk

Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).

A **dynamically allocated** hard disk file will only use space on your physical hard disk as it fills up (up to a maximum **fixed size**), although it will not shrink again automatically when space on it is freed.

A **fixed size** hard disk file may take longer to create on some systems but is often faster to use.

☒ Dynamically allocated

☐ Fixed size

< Back

Next >

Cancel



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Create Virtual Hard Disk [X]

File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.



Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.



4.00 MB 2.00 TB

< Back Create Cancel

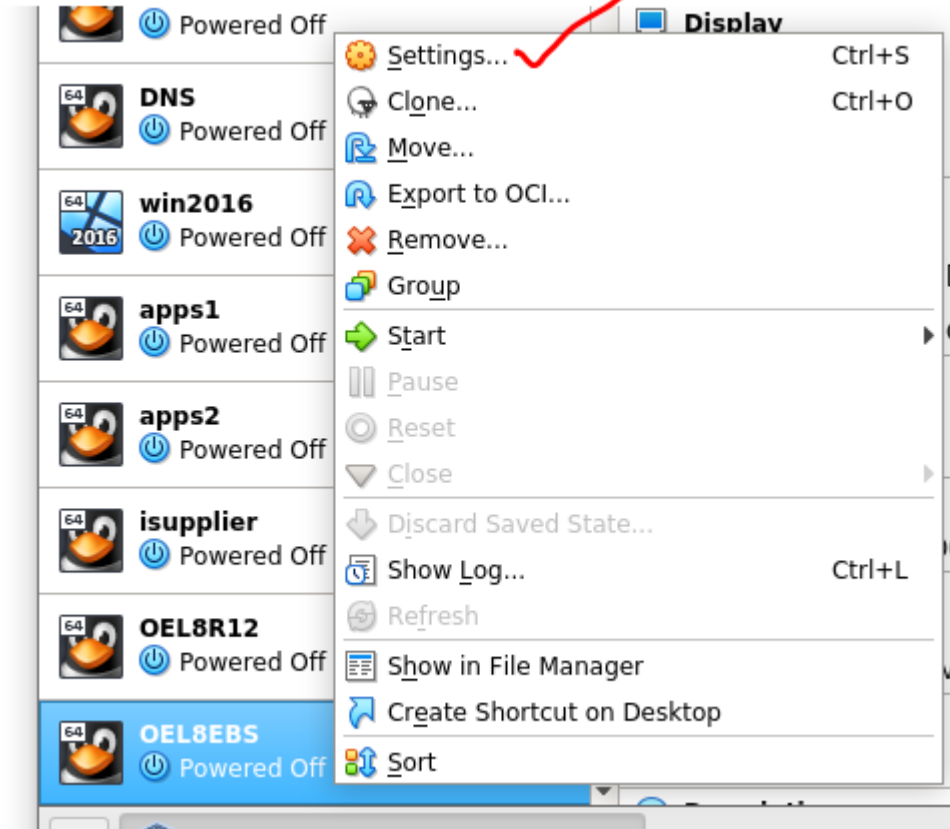
Click Settings



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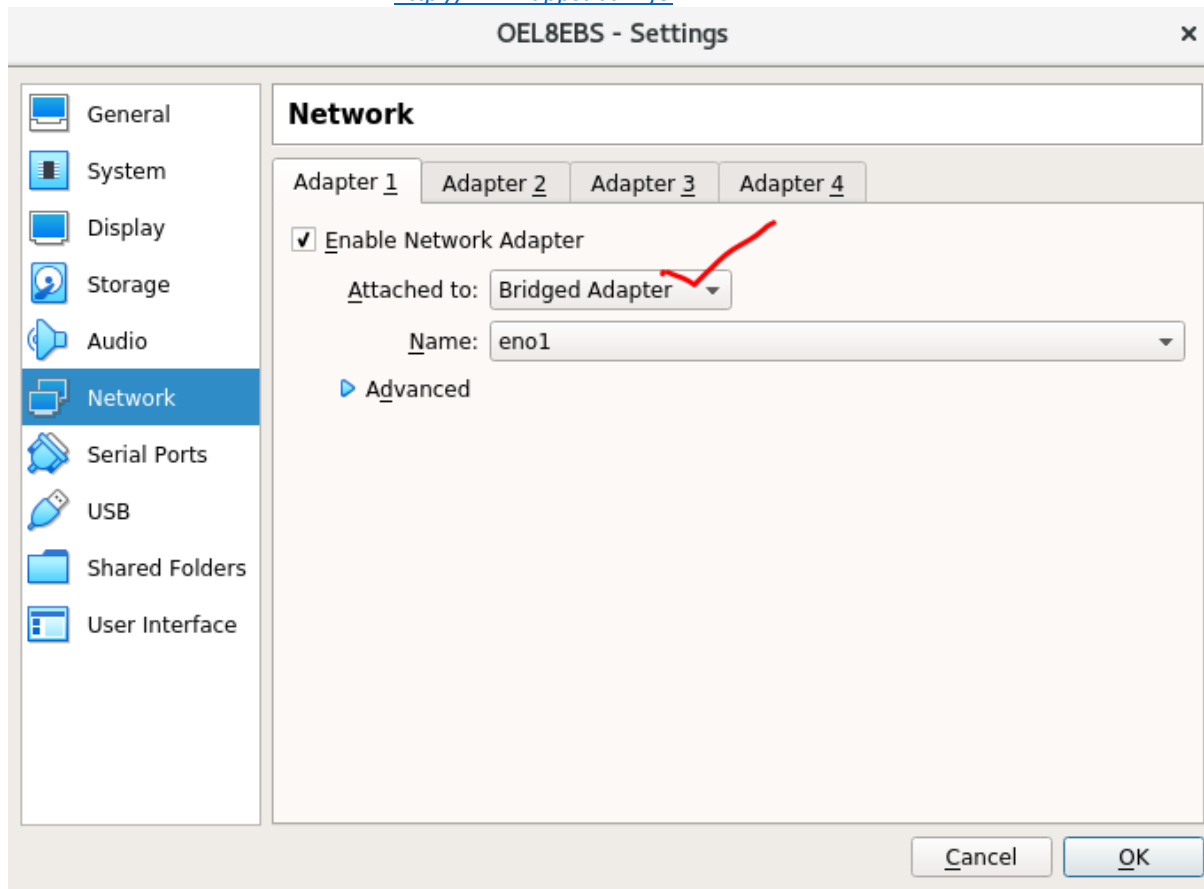




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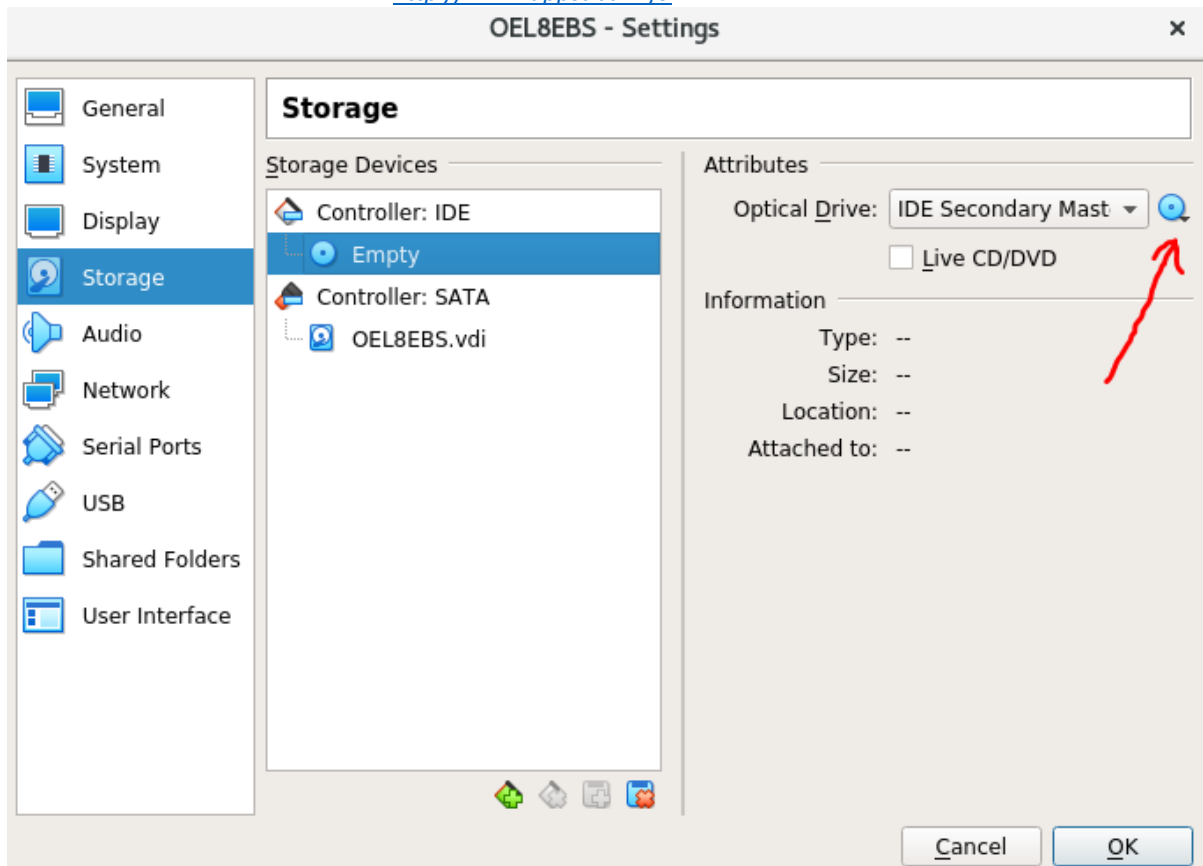




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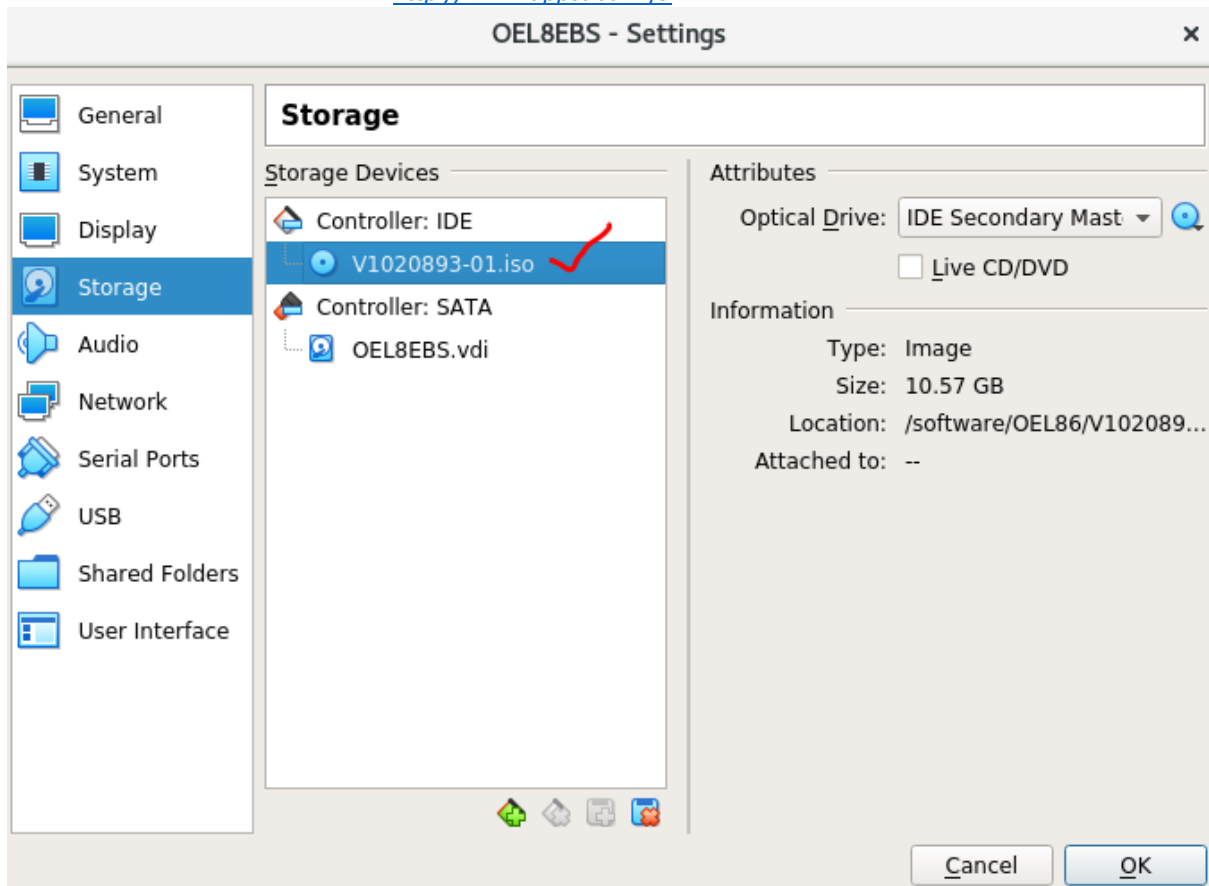




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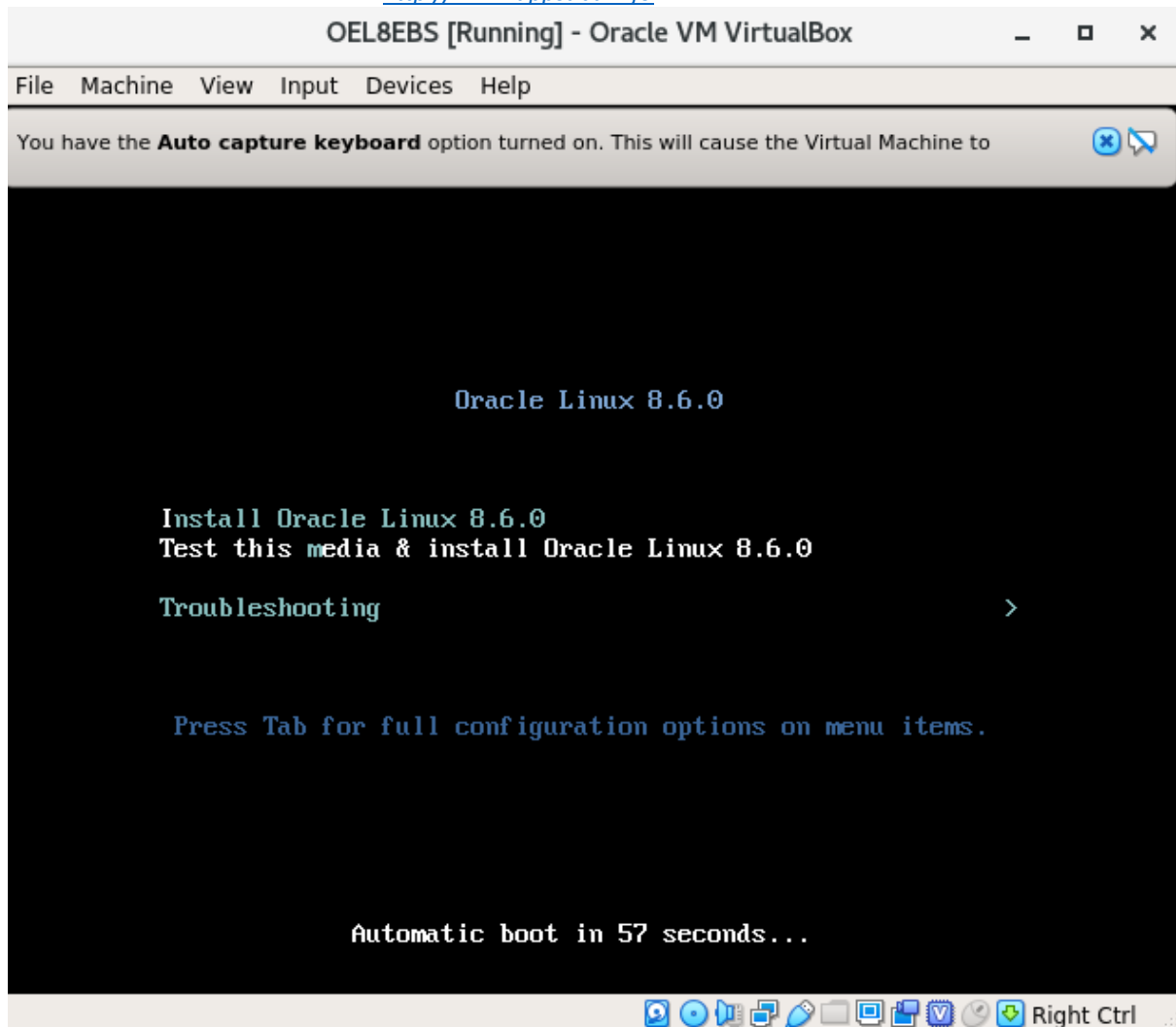
Click Start



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ORACLE LINUX 8.6 INSTALLATION

us

Help!

WELCOME TO ORACLE LINUX 8.6.

What language would you like to use during the installation process?

English	English >	English (United States)
Afrikaans	Afrikaans	English (United Kingdom)
አማርኛ	Amharic	English (India)
العربية	Arabic	English (Australia)
অসমীয়া	Assamese	English (Canada)
Asturiano	Asturian	English (Denmark)
Беларуская	Belarusian	English (Ireland)
Български	Bulgarian	English (New Zealand)
বাংলা	Bangla	English (Nigeria)
		English (Hong Kong SAR China)

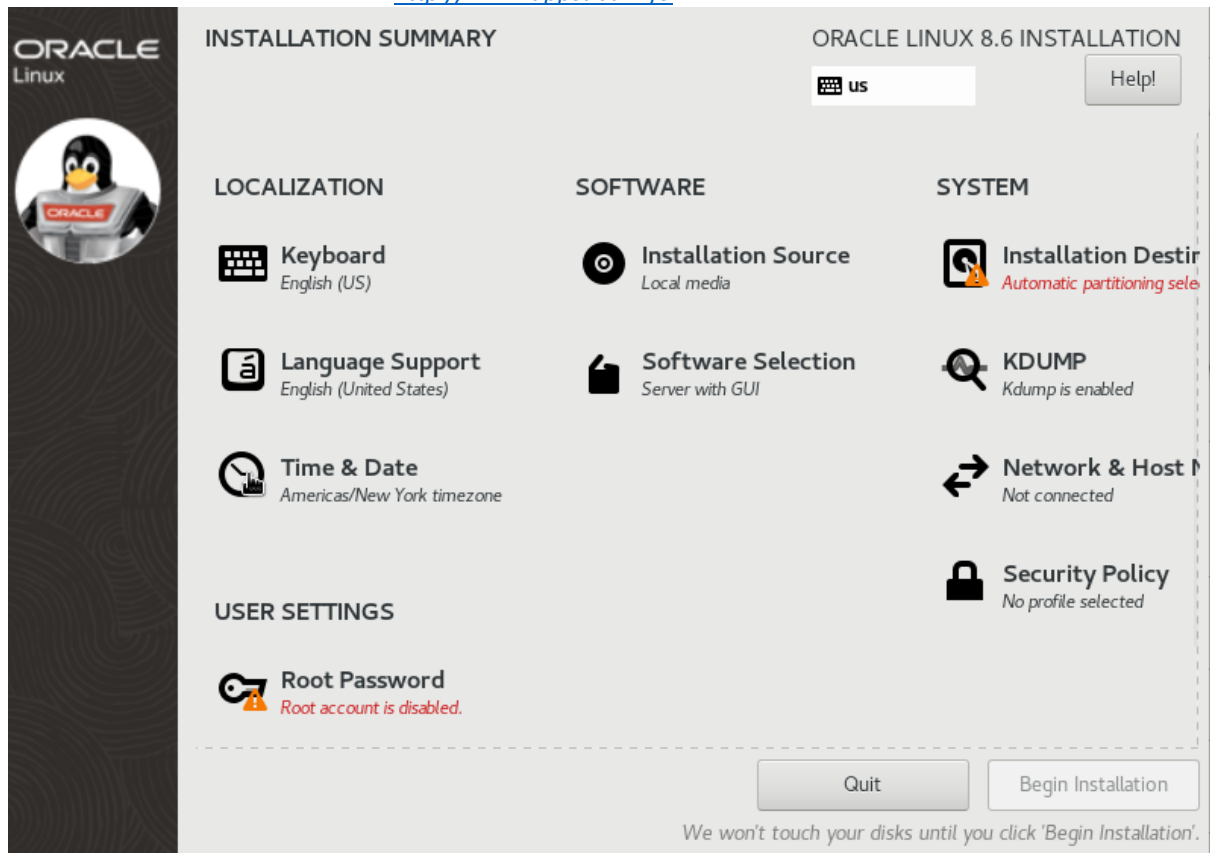
Quit Continue



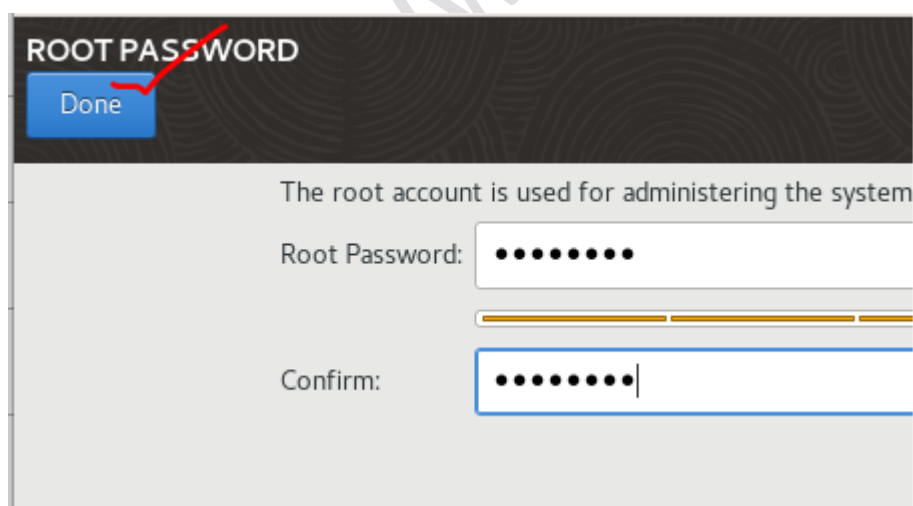
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Set root password



Click Network and Hostname



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NETWORK & HOST NAME

Done

ORACLE LINUX 8.6 INSTALLATION

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Help!

Ethernet (enp0s3)
Intel Corporation 82540EM Gigabit Ethernet Controller

+ –

Ethernet (enp0s3)
Connected

Hardware Address 08:00:27:77:53:19
Speed 1000 Mb/s
IP Address 192.168.1.15/24
Default Route 192.168.1.1
DNS 192.168.1.1

ON

Configure...

Host Name:

Apply

Current host name: localhost.localdomain

Click on



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Ethernet (enp0s3)
Intel Corporation 82540EM Gigabit Ethernet Controller (

Ethernet (enp0s3)
Connected ☒ ON

Hardware Address 08:00:27:77:53:19
Speed 1000 Mb/s
IP Address 192.168.1.15/24
Default Route 192.168.1.1
DNS 192.168.1.1

Configure...

Host Name: Current host name: localhost.localdomain

Click Installation Destination



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INSTALLATION DESTINATION
Done

Device Selection
Select the device(s) you'd like to install to. They will be left until the "Begin Installation" button.

Local Standard Disks

300 GiB

ATA VBox Harddisk
sda / 300 GiB free

Specialized & Network Disks

Add a disk...

Storage Configuration

☐ Automatic ☒ Custom

Click Custom



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▼ New Oracle Linux 8.6 Installation
You haven't created any mount points for your Oracle Linux 8.6 installation yet. You can:

- [Click here to create them automatically.](#)
- Create new mount points by clicking the '+' button.

New mount points will use the following partitioning scheme:

LVM

Encrypt automatically created mount points by default:

☐ Encrypt my data.

+ - ↺

AVAILABLE SPACE
300 GiB

TOTAL SPACE
300 GiB

[1 storage device selected](#)

ADD A NEW MOUNT POINT

More customization options are available after creating the mount point below

Mount Point:

Desired Capacity:

Cancel Add mount



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ADD A NEW MOUNT POINT

More customization options are available after creating the mount point below.

Mount Point: ▼

Desired Capacity:

ADD A NEW MOUNT POINT

More customization options are available after creating the mount point below.

Mount Point: ▼

Desired Capacity:



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▼ New Oracle Linux 8.6 Installation

DATA	
/d01/oracle ol_erp12-d01_oracle	238.28 GiB
SYSTEM	
/ ol_erp12-root	24.41 GiB
/boot sda1	5.86 GiB >
swap ol_erp12-swap	31.25 GiB

+ − ↺

AVAILABLE SPACE
192 MiB

TOTAL SPACE
300 GiB

[1 storage device selected](#)



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Done us Help!

New Oracle Linux 8.6 Installation sda1

SUMMARY OF CHANGES

Your customizations will result in the following changes taking effect after you return to the main menu and begin installation:

Order	Action	Type	Device	Mount point
1	destroy format	Unknown	ATA VBOX HARDDISK (sda)	
2	create format	partition table (MSDOS)	ATA VBOX HARDDISK (sda)	
3	create device	partition	sda1 on ATA VBOX HARDDISK	
4	create device	partition	sda2 on ATA VBOX HARDDISK	
5	create format	physical volume (LVM)	sda2 on ATA VBOX HARDDISK	
6	create device	lvmvg	oL_erp12	
7	create device	lvm lv	oL_erp12-d01_oracle	
8	create format	xfs	oL_erp12-d01_oracle	/d01/oracle
9	create device	lvm lv	oL_erp12-swap	
10	create format	swap	oL_erp12-swap	
11	create device	lvm lv	oL_erp12-root	
12	create format	xfs	oL_erp12-root	/

Cancel & Return to Custom Partitioning Accept Changes

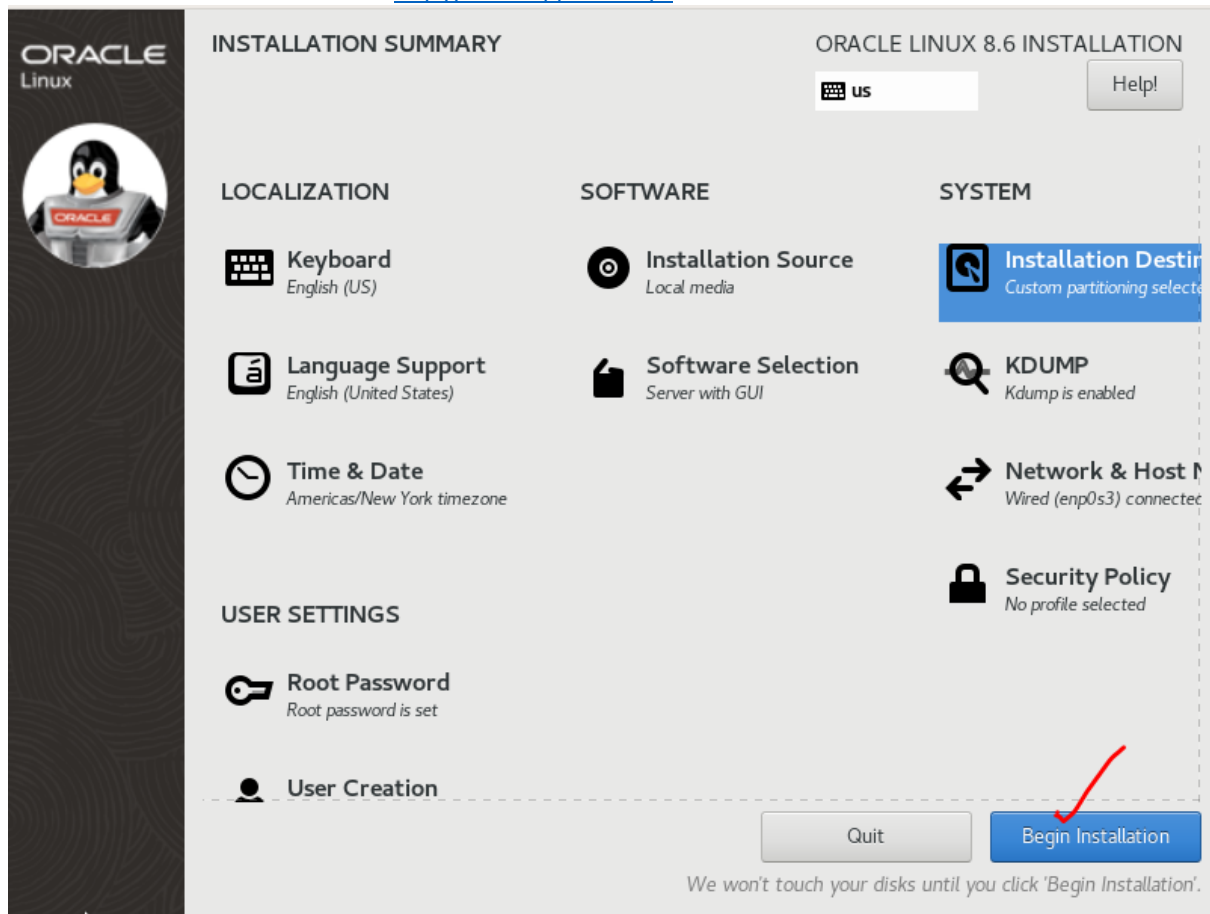
AVAILABLE SPACE TOTAL SPACE



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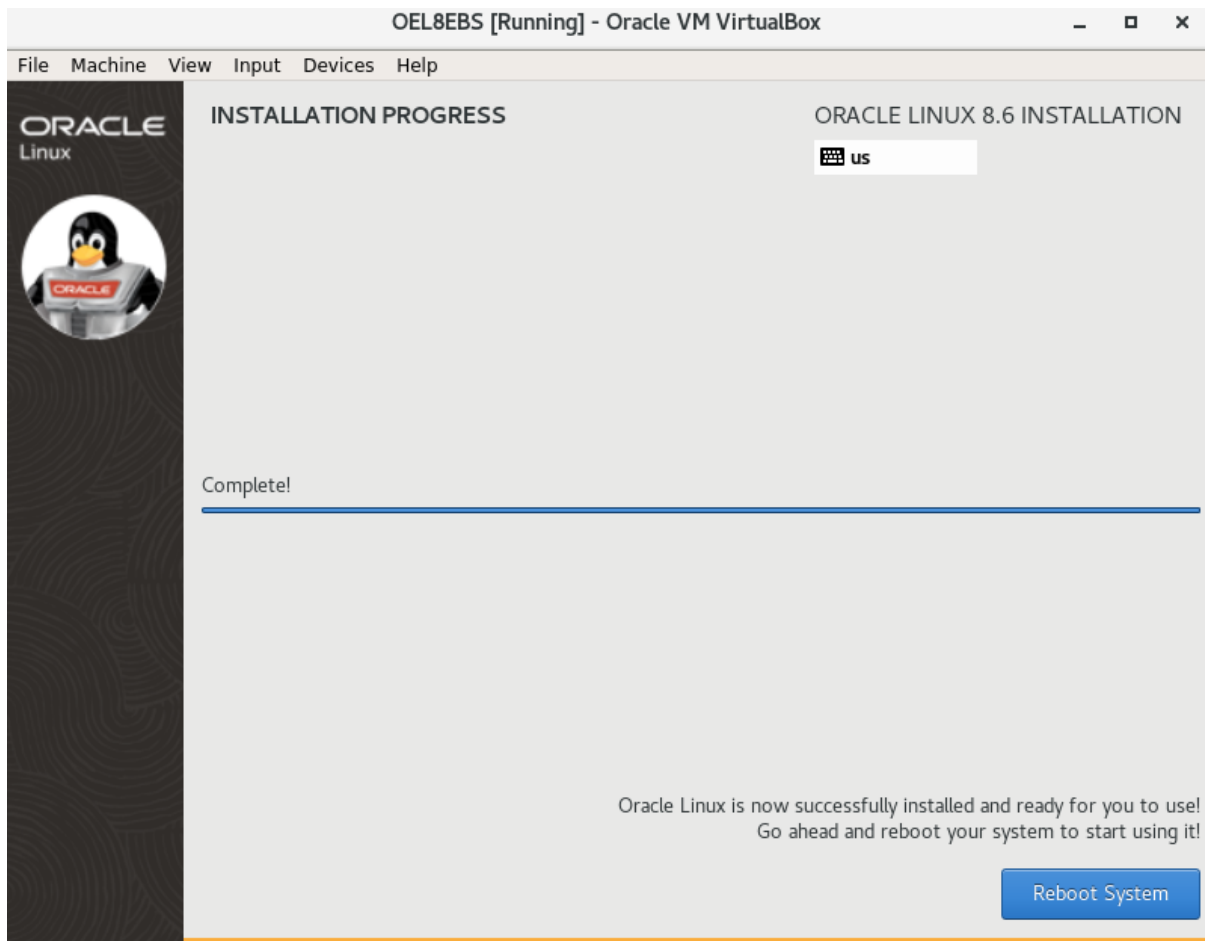




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INITIAL SETUP

ORACLE LINUX SERVER 8.6

us

Help!

LICENSING

USER SETTINGS

 **License Information**
License accepted

 **User Creation**
No user will be created

QUIT

FINISH CONFIGURATION

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```
• MobaXterm Personal Edition v23.1 •
(SSH client, X server and network tools)

► SSH session to root@192.168.1.6
  • 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.

Activate the web console with: systemctl enable --now cockpit.socket

/usr/bin/xauth: file /root/.Xauthority does not exist
[root@erp12 ~]#
```

INSTALL PRE-INSTALL RPM

Oracle Linux 8 has now the pre-install RPM required for Oracle Database 19c.

```
yum install oracle-database-preinstall-19c
```

Once the Preinstall RPM is installed as you know, oracle user, necessary groups are created. Verify them using "id oracle" as shown above. Download Oracle Database 19.3 Software from edelivery.oracle.com and upload to server.

Extract the software in directory which you want it to be your ORACLE_HOME. Ensure you set the parameter CV_ASSUME_DISTID=8.2 failing which your runInstaller might show blank screen. I provided more details of this issue in the post:

ADD THE EPEL REPOSITORY



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The EPEL “Extra Packages for Enterprise Linux” repository contains a number of useful tools that I like on Linux boxes.

```
vi /etc/yum.repos.d/ol8-epel.repo
```

```
[ol8_developer_EPEL]
```

```
name= Oracle Linux $releasever EPEL ($basearch)
```

```
baseurl=https://yum.oracle.com/repo/OracleLinux/OL8/developer/EPEL/$basearch/
```

```
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
```

```
gpgcheck=1
```

```
enabled=1
```

INSTALL PREREQUISITES FOR E-BUSINESS SUITE R12.2 [MOS 1330701.1]

```
dnf install -y oraclelinux-release
```

```
dnf config-manager --set-enabled ol8_addons
```

```
dnf install -y oracle-ebs-server-R12-preinstall.x86_64
```

```
dnf groupinstall "Server with GUI"
```

```
systemctl set-default graphical.target
```

INSTALL ADDITIONAL PACKAGES [MOS 2790032.1]

When I was building the staging area, I encountered MOS 2790032.1.

```
dnf install -y fontconfig-devel.x86_64 libXrender-devel.x86_64 screen.x86_64 xinetd.x86_64 dos2unix.x86_64  
curl.x86_64 wget.x86_64 htop.x86_64
```



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PREPARE THE ORAINVENTORY

We're going to pre-create the oraInventory to our preferences and so that ownership/permissions are correct.

```
echo "inst_group=dba" > /etc/oraInst.loc
```

```
echo "inventory_loc=/var/opt/oracle/oraInventory" >> /etc/oraInst.loc
```

```
mkdir -p /var/opt/oracle/oraInventory
```

Adjust Ownership & Permissions

```
chown -R oracle:oinstall /var/opt/oracle /etc/oraInst.loc
```

```
chmod u+rw,g+rw,o+r /etc/oraInst.loc
```

```
chown -R oracle:dba /d01/oracle /oradata/PROD /oraarch/PROD
```

```
chmod -R u+rwX,g+rwX,o+rX /var/opt/oracle /d01/oracle
```

UPDATE /ETC/HOSTS

Oracle E-Business Suite requires that the entry for this host is formatted as such:

```
<IP Address> <hostname.domainname> <hostname>
```