

## Creating RedHat 8.4 Virtual Machine

New virtual machine - Ora19c-ASM (ESXi 7.0 U2 virtual machine)

1 Select creation type  
2 Select a name and guest OS  
3 Select storage  
4 Customize settings  
5 Ready to complete

### Select a name and guest OS

Specify a unique name and OS

Name  
Ora19c-ASM

Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Compatibility ESXi 7.0 U2 virtual machine

Guest OS family Linux

Guest OS version Red Hat Enterprise Linux 8 (64-bit)

Back Next Finish Cancel

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### Select storage

Select the storage type and datastore

Standard Persistent Memory

Select a datastore for the virtual machine's configuration files and all of its' virtual disks.

Name	Capacity	Free	Type	Thin pro...	Access
datastore1	221.75 GB	78.92 GB	VMFS6	Supported	Single
DATASTORE_ORA	279.75 GB	278.34 GB	VMFS6	Supported	Single
DataStoreLinux	179.75 GB	66.6 GB	VMFS5	Supported	Single
SoftDataStore	99.75 GB	80.36 GB	VMFS6	Supported	Single

4 items

Back Next Finish Cancel

4 CPU,

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### Customize settings

Configure the virtual machine hardware and virtual machine additional options

CPU	4		
Memory	8192	MB	
Hard disk 1	40	GB	
SCSI Controller 0	VMware Paravirtual		
SATA Controller 0			
USB controller 1	USB 2.0		
Network Adapter 1	VM Network	<input checked="" type="checkbox"/> Connect	
CD/DVD Drive 1	Host device	<input checked="" type="checkbox"/> Connect	
Video Card	Default settings		

Back Next Finish Cancel

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Name	Ora19c-ASM
Datastore	DATASTORE_ORA
Guest OS name	Red Hat Enterprise Linux 8 (64-bit)
Compatibility	ESXi 7.0 U2 virtual machine
vCPUs	4
Memory	8192 MB
Network adapters	1
Network adapter 1 network	VM Network
Network adapter 1 type	VMXNET 3
IDE controller 0	IDE 0
IDE controller 1	IDE 1
SCSI controller 0	VMware Paravirtual
SATA controller 0	New SATA controller
Hard disk 1	
Capacity	40GB
Datastore	[DATASTORE_ORA] Ora19c-ASM/
Mode	Dependent
Provisioning	Thick provisioned, lazily zeroed
Controller	SCSI controller 0 : 0

Back Next Finish Cancel

Adding two new disks , 5 GB for OCR

Edit settings - Ora19c-ASM (ESXi 7.0 U2 virtual machine)

New Hard disk	5	GB	
Maximum Size	238.34 GB		
Location	[DATASTORE_ORA] Ora19c-ASM/		Browse...
Disk Provisioning	<input type="radio"/> Thin provisioned <input type="radio"/> Thick provisioned, lazily zeroed <input checked="" type="radio"/> Thick provisioned, eagerly zeroed		
Shares	Normal	1000	
Limit - IOPs	Unlimited		
Controller location	SCSI controller 0	SCSI (0:1)	
Disk mode	Dependent		
Sharing	Multi-writer sharing		

Save Cancel

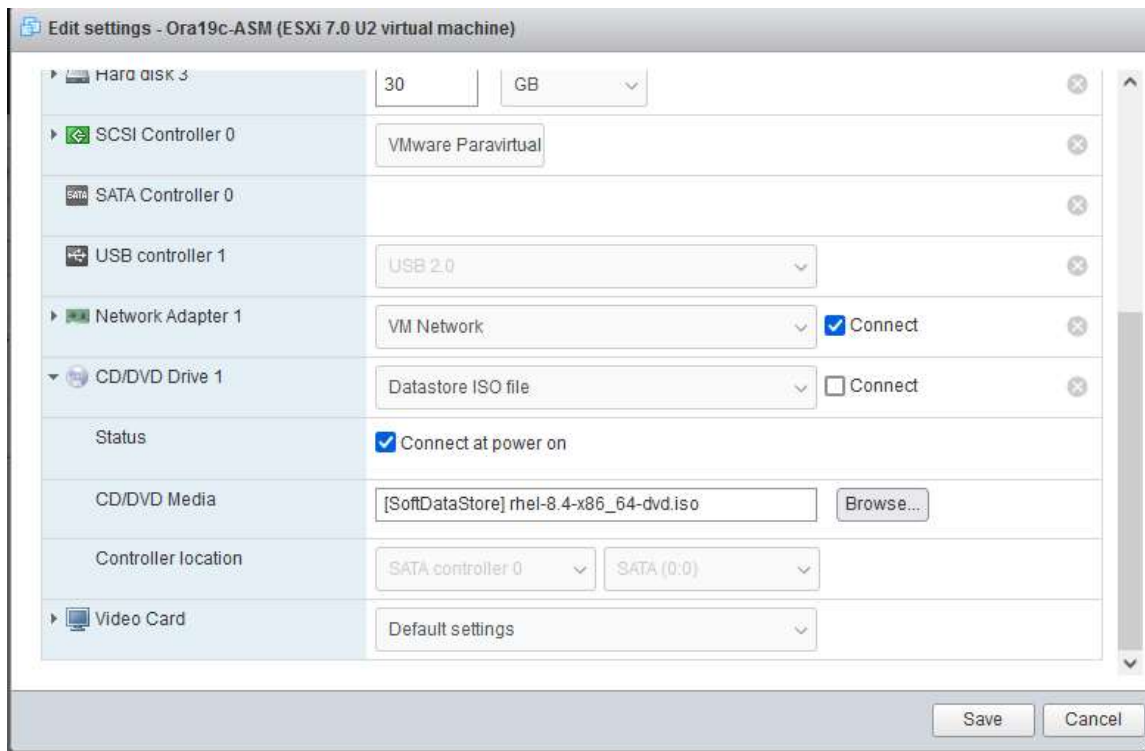
30 GB for DATA

Edit settings - Ora19c-ASM (ESXi 7.0 U2 virtual machine)

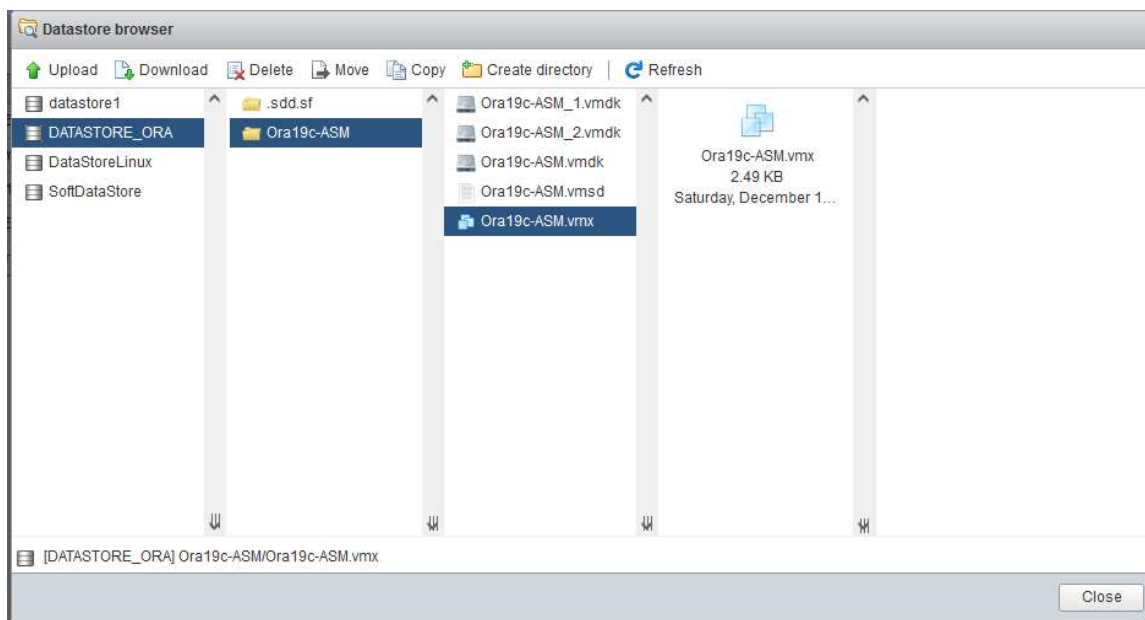
New Hard disk	30	GB	
Maximum Size	233.34 GB		
Location	[DATASTORE_ORA] Ora19c-ASM/		Browse...
Disk Provisioning	<input type="radio"/> Thin provisioned <input type="radio"/> Thick provisioned, lazily zeroed <input checked="" type="radio"/> Thick provisioned, eagerly zeroed		
Shares	Normal	1000	
Limit - IOPs	Unlimited		
Controller location	SCSI controller 0	SCSI (0:2)	
Disk mode	Dependent		
Sharing	Multi-writer sharing		

Save Cancel

Selected Redhat iso

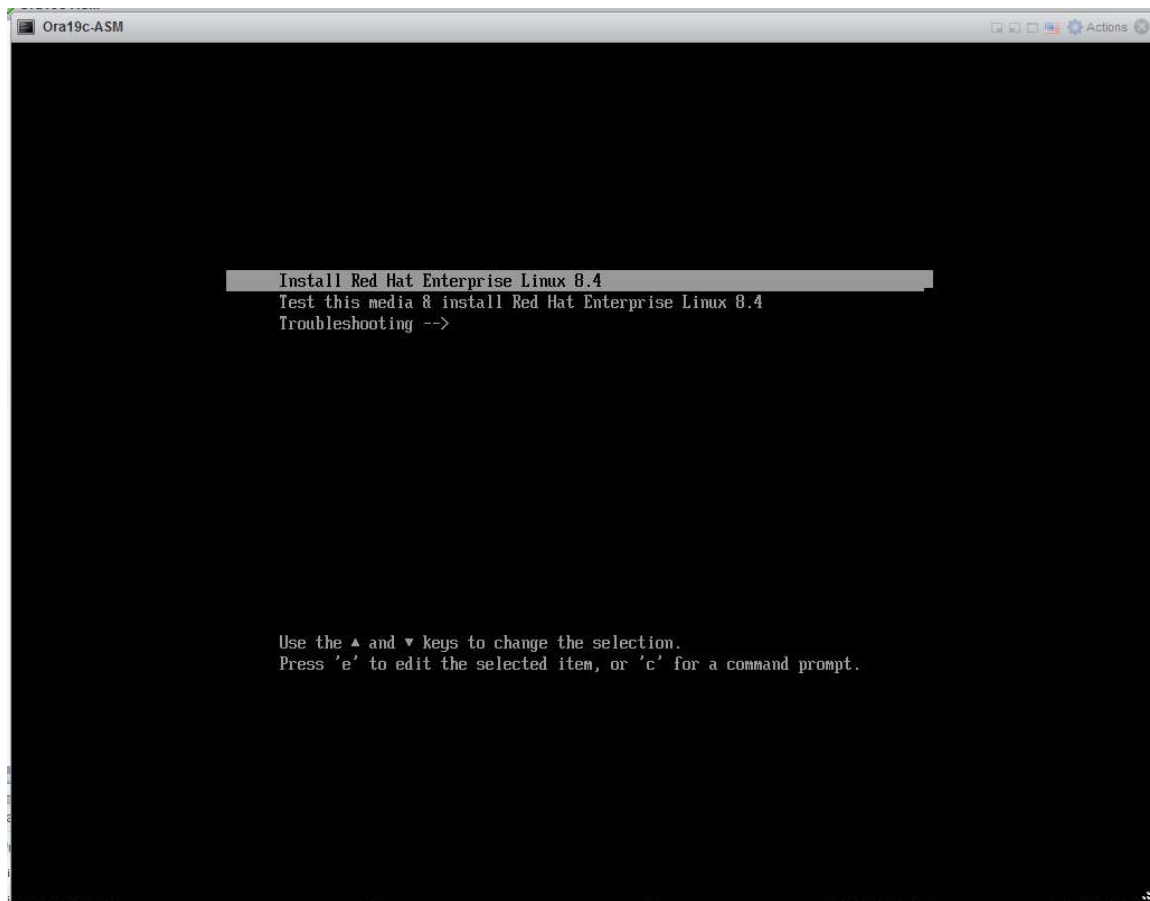


updating vmx file for adding parameter to stamping the disk with guud



```
scsi0:1.sharing = "multi-writer"
sched.scsi0:1.shares = "normal"
sched.scsi0:1.throughputCap = "off"
scsi0:1.present = "TRUE"
scsi0:2.deviceType = "scsi-hardDisk"
scsi0:2.fileName = "Ora19c-ASM_2.vmdk"
scsi0:2.sharing = "multi-writer"
sched.scsi0:2.shares = "normal"
sched.scsi0:2.throughputCap = "off"
scsi0:2.present = "TRUE"
tools.guest.desktop.autolock = "FALSE"
nvram = "Ora19c-ASM.nvram"
svga.present = "TRUE"
pciBridge0.present = "TRUE"
pciBridge4.present = "TRUE"
pciBridge4.virtualDev = "pcieRootPort"
pciBridge4.functions = "8"
pciBridge5.present = "TRUE"
pciBridge5.virtualDev = "pcieRootPort"
pciBridge5.functions = "8"
pciBridge6.present = "TRUE"
pciBridge6.virtualDev = "pcieRootPort"
pciBridge6.functions = "8"
pciBridge7.present = "TRUE"
pciBridge7.virtualDev = "pcieRootPort"
pciBridge7.functions = "8"
hpet0.present = "TRUE"
RemoteDisplay.maxConnections = "-1"
sched.cpu.latencySensitivity = "normal"
svga.autodetect = "TRUE"
disk.EnabledUUID = "TRUE"
```

and upload the file back to data store.



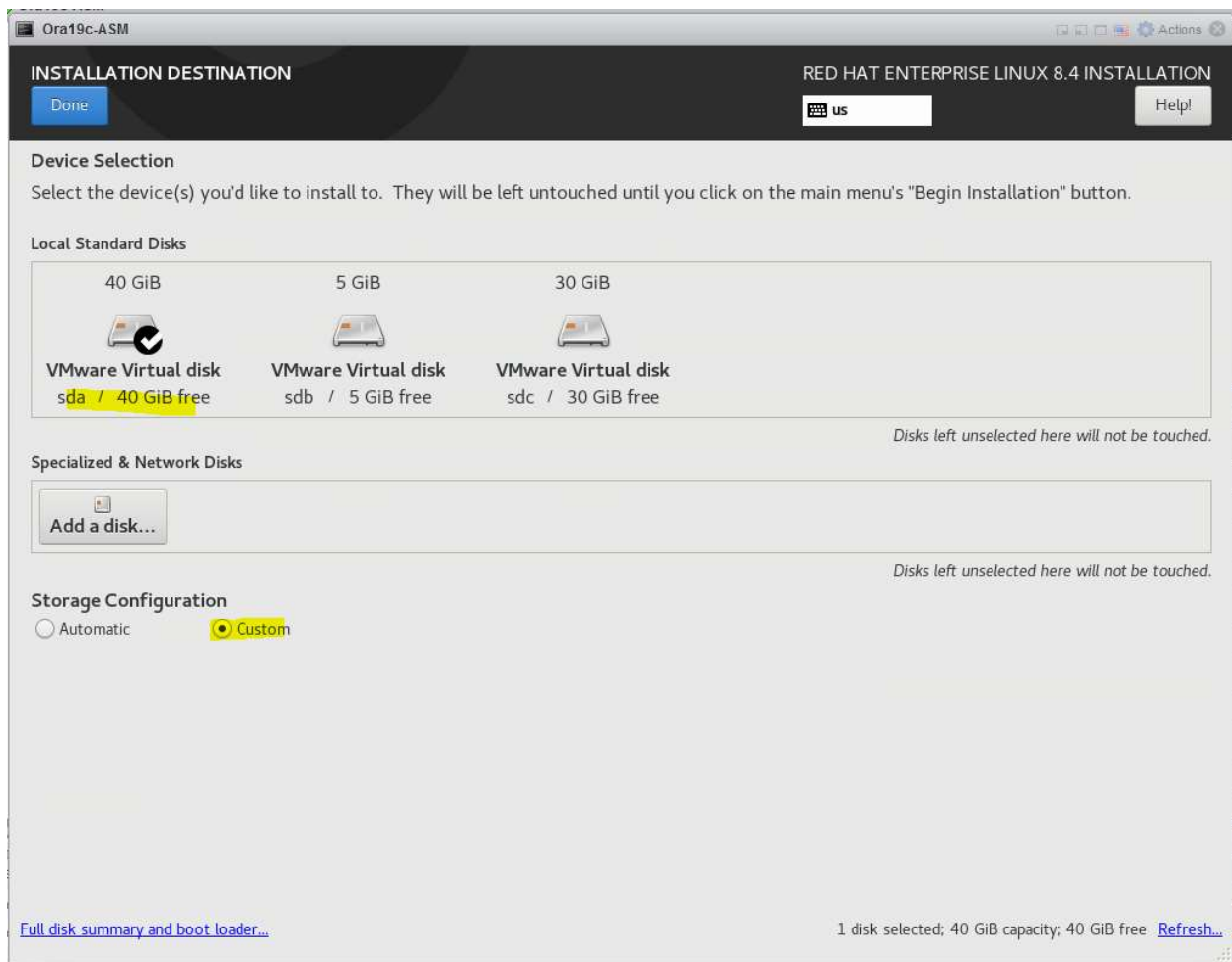
## WELCOME TO RED HAT ENTERPRISE LINUX 8.4.

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)
Asturianu	Asturian	English (Denmark)
Беларуская	Belarusian	English (Ireland)
Български	Bulgarian	English (New Zealand)
বাংলা	Bangla	English (Nigeria)
བོད་སྐད་	Tibetan	English (Hong Kong SAR China)
Bosanski	Bosnian	English (Philippines)
Català	Catalan	English (Singapore)
Čeština	Czech	English (South Africa)
Cymraeg	Welsh	English (Zambia)
Dansk	Danish	English (Zimbabwe)
		English (Botswana)
		English (Antigua & Barbuda)

Quit

Continue





Ora19c-ASM

MANUAL PARTITIONING

RED HAT ENTERPRISE LINUX 8.4 INSTALLATION

Done

us

Help!

New Red Hat Enterprise Linux 8.4 Installation

SYSTEM

/	30.5 GiB	>
rhel-root		
/boot	1.5 GiB	
sda1		
swap	8 GiB	
rhel-swap		

+ - ↺

AVAILABLE SPACE

1.97 MiB

TOTAL SPACE

40 GiB

[1 storage device selected](#)

rhel-root

Mount Point:

/

Desired Capacity:

30.5 GiB

Device Type:

LVM

☐ Encrypt

File System:

xfs

☒ Reformat

Device(s):

VMware Virtual disk (sda)

Modify...

Volume Group:

rhel (0 B free)

Modify...

Label:

Name:

root

Update Settings

Note: The settings you make on this screen will not be applied until you click on the main menu's 'Begin Installation' button.

Reset All

Ora19c-ASM

Actions

Done

RED HAT ENTERPRISE LINUX 8.4 INSTALLATION

us

Help!

Kdump is a kernel crash dumping mechanism. In the event of a system crash, kdump will capture information from your system that can be invaluable in determining the cause of the crash. Note that kdump does require reserving a portion of system memory that will be unavailable for other uses.

☐ Enable kdump

Kdump Memory Reservation:

☒ Automatic☐ Manual

Memory To Be Reserved (MB):

160

-

+

Total System Memory (MB):

7960

Usable System Memory (MB):

7800

Ora19c-ASM

Actions

SOFTWARE SELECTION

Done

us

Help!

Base Environment

☒ **Server with GUI**  
An integrated, easy-to-manage server with a graphical interface.

☐ **Server**  
An integrated, easy-to-manage server.

☐ **Minimal Install**  
Basic functionality.

☐ **Workstation**  
Workstation is a user-friendly desktop system for laptops and PCs.

☐ **Custom Operating System**  
Basic building block for a custom RHEL system.

☐ **Virtualization Host**  
Minimal virtualization host.

Additional software for Selected Environment

☐ **Virtualization Hypervisor**  
Smallest possible virtualization host installation.

☐ **Virtualization Tools**  
Tools for offline virtual image management.

☐ **Basic Web Server**  
These tools allow you to run a Web server on the system.

☐ **Legacy UNIX Compatibility**  
Compatibility programs for migration from or working with legacy UNIX environments.

☐ **Container Management**  
Tools for managing Linux containers

☒ **Development Tools**  
A basic development environment.

☐ **.NET Core Development**  
Tools to develop .NET and .NET Core applications

☒ **Graphical Administration Tools**  
Graphical system administration tools for managing many aspects of a system.

☐ **Headless Management**  
Tools for managing the system without an attached graphical console.

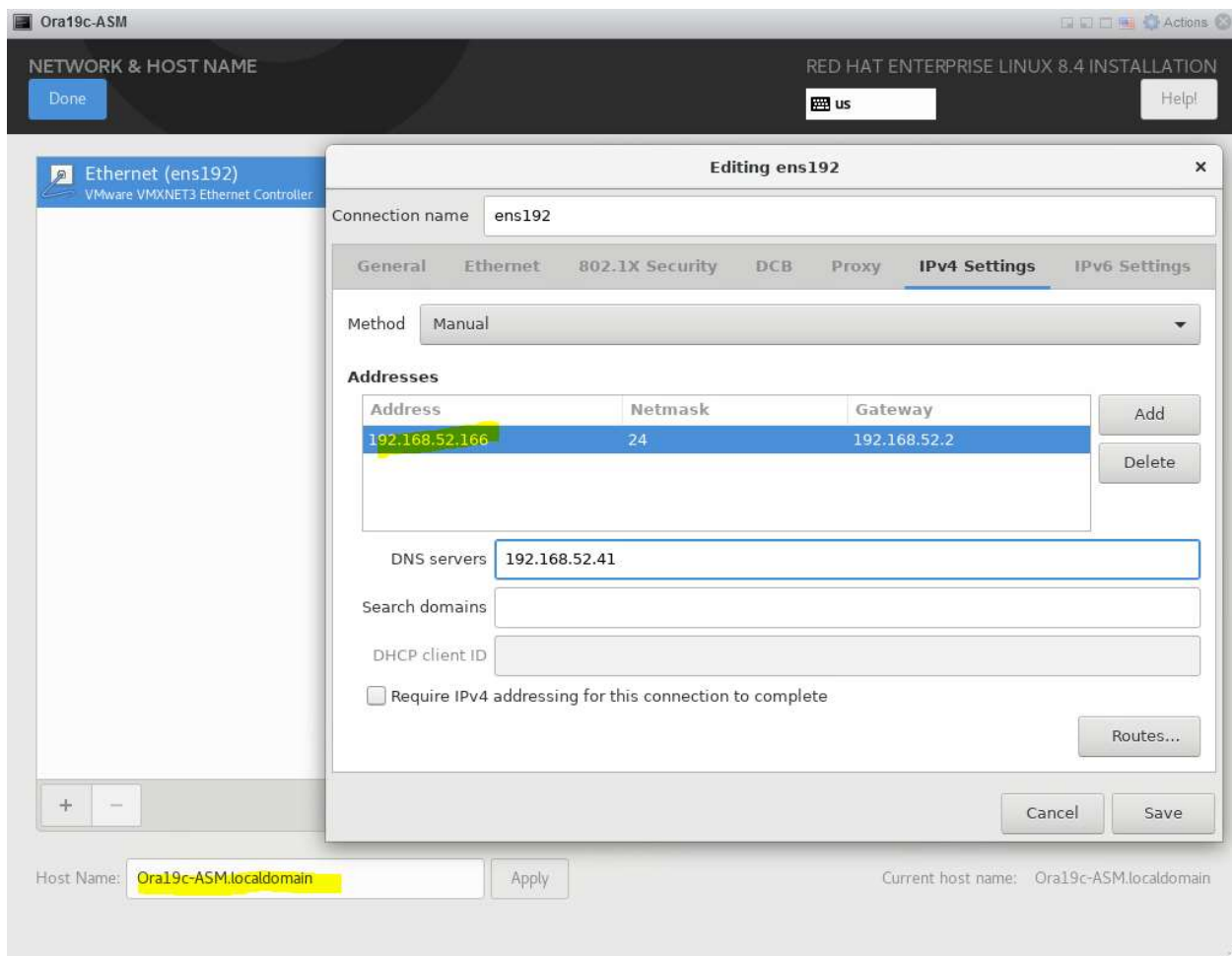
☐ **RPM Development Tools**  
Tools used for building RPMs, such as rpmbuild.

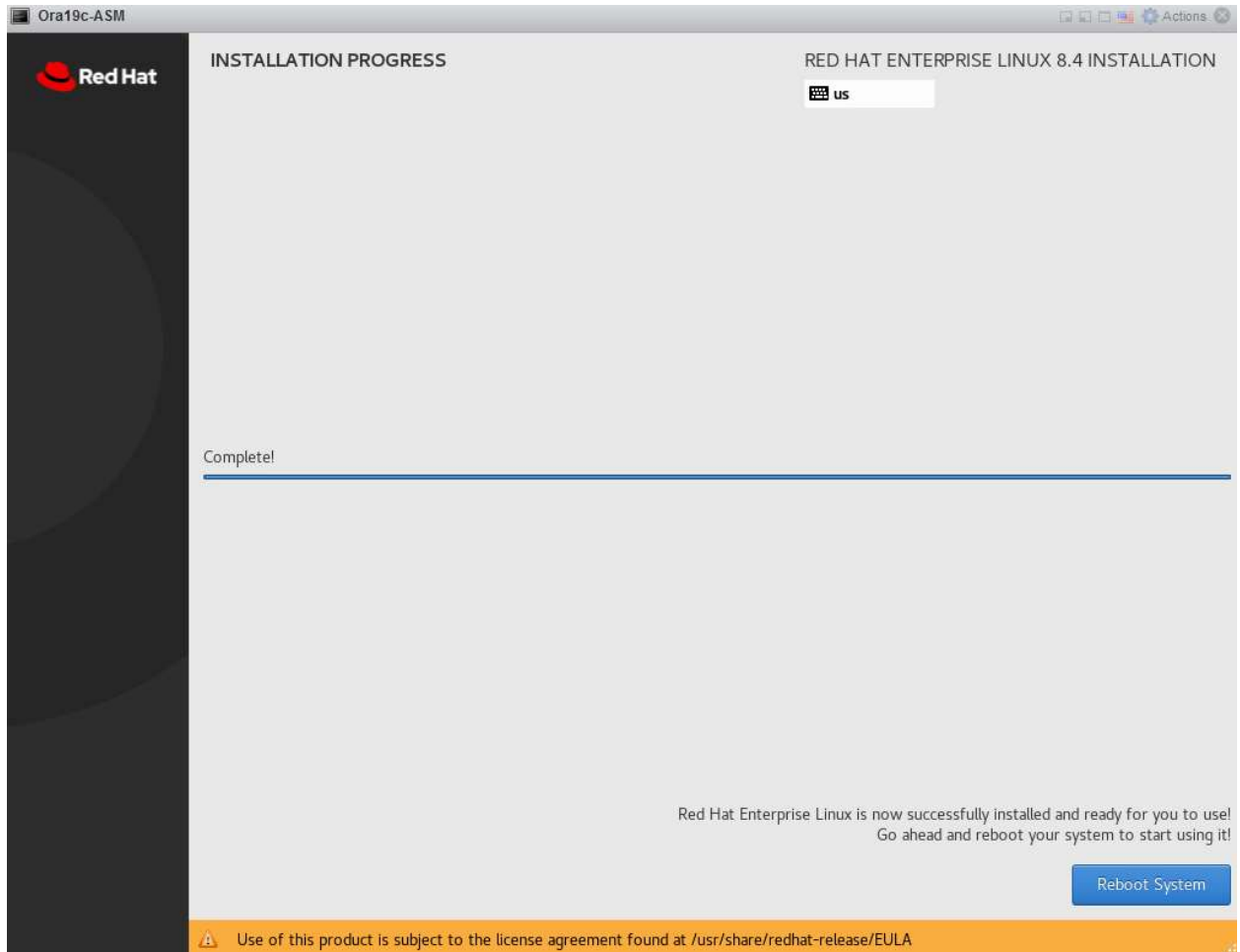
☐ **Scientific Support**  
Tools for mathematical and scientific computations, and parallel computing.

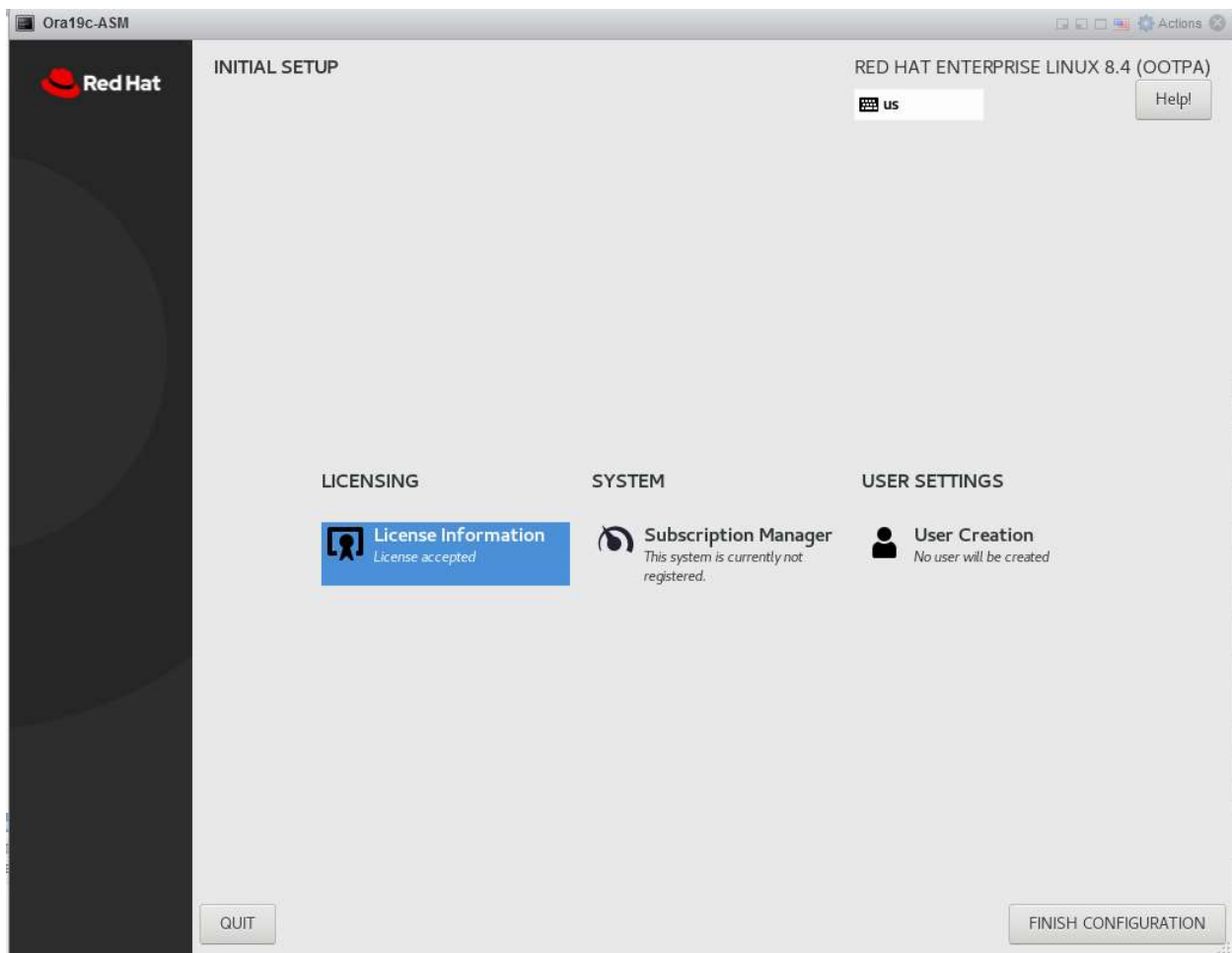
☒ **Security Tools**  
Security tools for integrity and trust verification.

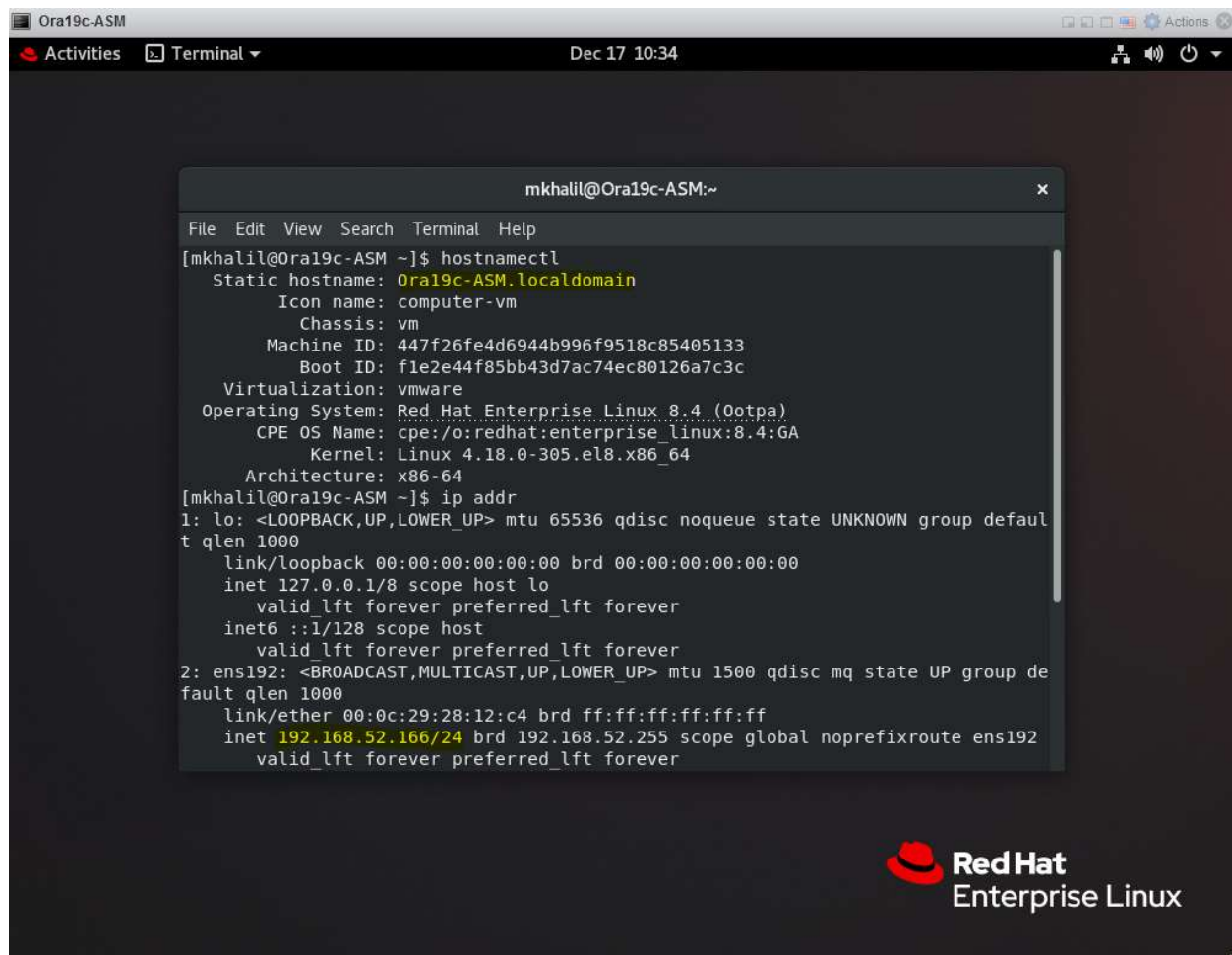
☐ **Smart Card Support**  
Support for using smart card authentication.

☒ **System Tools**  
This group is a collection of various tools for the system, such as the client for connecting to SMB shares and tools to monitor network traffic.










The screenshot shows a terminal window titled "mkhalil@Ora19c-ASM:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal output shows the results of the `hostnamectl` and `ip addr` commands. The `hostnamectl` output displays system details like static hostname, icon name, chassis, machine ID, boot ID, virtualization, and operating system. The `ip addr` output shows network interface details for `lo` and `ens192`, including their MTU, state, and assigned IP addresses.

```
mkhalil@Ora19c-ASM:~  
File Edit View Search Terminal Help  
[mkhalil@Ora19c-ASM ~]$ hostnamectl  
  Static hostname: Ora19c-ASM.localdomain  
        Icon name: computer-vm  
        Chassis: vm  
    Machine ID: 447f26fe4d6944b996f9518c85405133  
       Boot ID: f1e2e44f85bb43d7ac74ec80126a7c3c  
  Virtualization: vmware  
Operating System: Red Hat Enterprise Linux 8.4 (Ootpa)  
   CPE OS Name: cpe:/o:redhat:enterprise_linux:8.4:GA  
      Kernel: Linux 4.18.0-305.el8.x86_64  
Architecture: x86_64  
[mkhalil@Ora19c-ASM ~]$ ip addr  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host  
        valid_lft forever preferred_lft forever  
2: ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000  
    link/ether 00:0c:29:28:12:c4 brd ff:ff:ff:ff:ff:ff  
    inet 192.168.52.166/24 brd 192.168.52.255 scope global noprefixroute ens192  
        valid_lft forever preferred_lft forever
```



In other document we will pre-prepare the vm for Oracle and Grid infra installation.