

Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, and Roving Edge Operating Systems Deployment

How to deploy verified operating systems on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, and Roving Edge

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Purpose statement

This document provides the step by step for deploying verified operating systems on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance instances or Roving Edge. It is intended solely to help you assess the business benefits and how to deploy verified operating systems on these three platforms.

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Deploying Operating Systems on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge

RedHat Enterprise Linux Release

Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance and Roving Edge offers a wide variety of operating systems that suit the needs of large enterprises. Customers can run the latest supported versions of RHEL 7, 8, and 9 on current generation of Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge platforms, while maintaining access to Red Hat's support system and knowledge base through your RHEL subscription.

Deploying RHEL on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge

1. Download the RHEL 9.3 KVM Guest Virtualization image .QCOW2 format from RedHat Customer Portal using the following link: <u>https://access.redhat.com/downloads/content/rhel</u>.

Red Hat Enterprise Linux 9.3 KVM Guest Image

Import this image to create a RHEL virtual machine on a KVM/QEMU hypervisor, such as Red Hat OpenStack, Red Hat Virtualization, or Red Hat OpenShift Virtualization.

Last modified: 2023-11-01 SHA-256 Checksum: fafa0b90267206cb5c7d4lfcadea245918ae7aca9997b87397d845e63bdabeec

818 MB

Download Now 🗹

Figure 1. Red Hat Enterprise Linux 9.3 KVM Guest Image download page

 Or login with your Red Hat account on <u>Red Hat Hybrid Cloud Console</u> to customize and download your RHEL 9.3 release using RHEL Image Builder. For additional information, please refer to <u>https://www.redhat.com/sysadmin/rhelimage-builder</u>. Select the release, architecture, Oracle Cloud Infrastructure image, and .qcow2 format. Click next and follow the screens to customize the image.

Bed Hat Hybrid Cloud Cons	sole	Services •	- Q Search fe	orservices				
Red Hat Insights > In		Images						
Red Hat Insights		Filter by	y tags	* ⑦				
Dashboard		Image	es 💿 🕫					
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Systems				Image output				
Groups			Image output	Image builder allows you to create a	a custom image and push it to target	environments.		
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Security			Custom repositorie	5 Public cloud				
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Automation Toolkit		7 1	Review	Amazon Web Services	Google Cloud Platform	Microsoft Azure	Oracle Cloud Infrastructure	
Register Systems								
Learning Resources			Prinate cloud UtWavare vSphere					
Ceaning resources			Open virtualization format (.ova) 💿					
				 Virtual disk (.vmdk) (3) 				
				Virtualization - Guest image (or	:ow2)			
				Bare metal - Installer (.iso)				
				Next Back Cancel				

Figure 2. Red Hat Enterprise Linux 9.3 KVM Guest Image download page - Red Hat Image Builder

NOTE: Image Builder is a recently released tool that simplifies the process of building "golden images" by allowing you to register images to an existing subscription, preinstall packages from the RHEL repositories, and create custom partitions on the disk.

For this example, we will be working with the standard Red Hat Enterprise Linux 9.3 KVM Guest Image

3. Once downloaded the Red Hat Enterprise Linux 9.3 KVM Guest Image, upload the image to an Object Storage available on Compute Cloud@Customer, Oracle Private Cloud Appliance, or Roving Edge, then create a Custom image.

NOTE: To copy the image to Oracle Compute Cloud@Customer, Private Cloud Appliance or Roving Edge, you can use the OCI Sync. OCI Sync is a tool part of the OCI CLI utilized to synchronize a filesystem directory with objects in a bucket. Traverses sub-directories copying new and modified files or objects from the source to the destination and optionally deleting those that are not present in the source. For additional information, refer to: <u>https://docs.oracle.com/en-us/iaas/tools/oci-cli/3.40.0/oci_cli_docs/cmdref/os/object/sync.html</u>

4. On Compute Cloud@Customer and Private Cloud Appliance, click on Compute, Custom image, then Import Image. Enter a name for the new image, select a Compartment which the image will be deployed, source type, which can be Object Storage Bucket or Object Storage URL, then select QCOW2 as image format.

rhel92		
Create in Compartme	nt	
solution	-	
Source Type		
Import from an	Dbject Storage Bucket	
Import from an	Dbject Storage URL	
Bucket	solution (change)	
iso	•	
iso		
oky		
UKV		
Image Type		
QCOW2		
For disk image files use	i by QEMU.	
Virtual machine disk file	format. For disk images used in virtual machines.	
O OCI		
For images that were ex be changed in the Cons	ported from Oracle Cloud Infrastructure. The launch mode is specified in the .oci ole.	file and can'
Louis de Marda		
Daravirtualized	loda	
Ear virtual machines th	ivue	
For virtual machines the	it support paravirtualized drivers, created outside of Oracle Cloud Infrastructure.	

Figure 3. Red Hat Enterprise Linux 9.3 .QCOW2 Image Import

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5. The Import Image process will begin. Once completed, the new custom image will be available under Custom Images screen.

	10 MIL	- Andrew -	10-5	111°11°11	1118-0
Auto Reload	Refresh	Filter by Tag(s)			
	C Select Tag(s) ⊕		\oplus	2 items 🔬	< < Page: 1 >
Image		State		Created	Actions
redhat92		Avail	able	09/22/2023, 11:42:09 AM	:

Figure 4. Red Hat Enterprise Linux 9.3 KVM Guest Customer Image on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

6. To deploy a new instance from the Red Hat 9.3 custom image previously created, click on the three dots in the action column, then select Create Instance from Image:

View Details
Edit
Copy OCID
Create Instance From Image
Export Image
Delete image

Figure 5. Red Hat Enterprise Linux 9.3 KVM Guest instance deployment on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

7. Next, enter a new name for the instance, select your compartment, fault domain, VM Shape, Standard.E5.Flex. Adjust the appropriated OCPUs, Memory (GBs), Boot Volume, subnet (VCN and Subnet), Public and Private IP addressing, host name and SSH keys. Enable Network Security Group and select your appropriated security group for your new instance. Review the availability configuration and tagging, then, click Create.

Red Hat Enterprise Linux		
Create in Compartment		Fault Domain
solution	•	Automatically select the best fau 🗢
Shape		

Figure 5. Red Hat Enterprise Linux 9.3 KVM Guest instance deployment on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

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Create Instance

Shape		
VM.PCAStandard.E5.Flex	•	
DCPUs		
0	2	
Memory (GBs)		
0	20	
3oot Volume		
Specify a custom boot volume size		

Figure 6. Red Hat Enterprise Linux 9.3 KVM Guest instance shape on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

Boot Volume				
Specify a cus	stom boot volume size			
Boot volume size	(GB)			
50	~ ^			
Boot volume perf	ormance (VPUs)			
10		~ ^		
Subnet				
VCN	solution (change)	Subnet		
VCN	-	Select VCN first	•	
Required		Required		

Figure 7. Red Hat Enterprise Linux 9.3 KVM Guest instance boot volume configuration on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance



Public IP Address	
Assign Public IP	
Assigning a publyou're not sure w later.	ic IP address makes this instance accessible from the internet. If whether you need a public IP address, you can always assign one
Private IP	
Private IP (Optional) Private IP Ac	Idress
Private IP (Optional) Private IP Ac Iostname	idress

Figure 8. Red Hat Enterprise Linux 9.3 KVM Guest instance IP addressing on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

SSH Ke	ys				
Provide o	ptional SSH keys t	to access the instanc	e		
 Select 	the (.pub) file(s) to	o upload 🔿 Paste	the public key(s)		
	Des				
	Dra	g and Drop		+	
)	
		No files s	selected		
Initializ	ation Script				
You can p scripts ca	rovide a startup s n install software achine.	cript that runs when and updates, and en	your instance be sure that service	oots up or restart s are running wit	s. Startup hin the

Figure 9. Red Hat Enterprise Linux 9.3 KVM Guest instance SSH key on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

- 8. The provision of the new Red Hat Enterprise Linux 9.3 Instance will begin. Wait until the instance state changes to Running. After that, the instance will be running and accessible via SSH protocol.
- 9. To access your new Red Hat Enterprise Linux 9.3 Instance on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, open a SSH connection with the following command line syntax:

ssh -i <your-ssh-key> cloud-user@<ip-address or DNS name of your rhel92 instance>

[cloud-user@rhel9-3 ~]\$ uname -a			
Linux rhel9-3 5.14.0-362.8.1.el9_3.x86_64 #1 SMP	PREEMPT_DYNAMIC Tue	Oct 3 11:12:36 EDT 2023	x86_64 x86_64 x86_64 GNU/Linux
[cloud-user@rhel9-3 ~]\$ cat /etc/redhat-release			
Red Hat Enterprise Linux release 9.3 (Plow)			
[cloud-user@rhel9-3 ~]\$			

Figure 10. Red Hat Enterprise Linux 9.3 KVM Guest instance SSH connection on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

10. To import the RHEL 9.3 image on Roving Edge, go to Compute, Custom Images, then select Import Image. Enter the name of your new image, select Linux as the operating systems, select the source of the .qcow2 image, in our example here we are importing the image from a Roving Edge Object Storage bucket named iso. Select the Object Name, (RHEL 9.3 .qcow image), and select qcow2 format. Under launch options session, select UEFI_64 as firmware, then paravirtualized mode for network and storage options. Click import image.

Import Image	Help
Name	
rhei9.3	
Occuration Contemp	
Linux	
	•
Import from an Object Storage bucket	
Ruckat	
150	0
Object Name	
mel-9.3-x86 64-kvm.gcow2	<u></u>
kanan Tun	•
O OCI	
For images that were exported from Oracle Cloud Infrastructure. The launch mode is apecified in the .oci file and can't be changed in the Console.	
For disk image files used by QEMU.	
Launch Options	
Firmware	
UEFI_64	\$
The firmware used to boot the virtual machine instance.	
Network Paravirtualized Mode	
C Emulated Mode	
NIC attachment type: Paravirtualized	
P	
Paravirtualized Mode	
O Emulated Mode	
Remote data volume: Paravirtualized	Boot volume type: Paravirtualized
Consistant Volume Naming	
Enabled	\$
L Specifies whether consistent device paths for ISCSI and paravirtualized attached block volumes are enabled for the image. If enabled, the image must support consist	ent device names.
Import Image Cancel	

Figure 11. Red Hat Enterprise Linux 9.3 KVM image import on Roving Edge

The import process will start.



Compute > Custom Image Details						
	rhel93					
CI	Create Instance Edit Details Ex	Delete				
	Custom Image Information					
	Custom Image Informat	ion				
	OCID:hxcalq Show Copy				Launch Mode: CUSTOM	
IMPORTING	Original Image: -				Created: Fri, Apr 26, 2024 at 20:29:09 UTC	
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	NIC Attachment Type: PARAMETUA	g type and boot volume attachment type use	o wien abroning a virtual machine mean	Ce. Lean more	Firmware: UEFL 64	
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					boot former (jpt. 1717-1111-0-1.1.1.)	
Pasou room	Work Requests					
Resources	WORK nequests					
	A work request is an activity log that trac	ks each step in an asynchronous operation. I	Use work requests to monitor the progress	of long-running operations.		
WORK DEQUESTS	Operation	State	% Complete	Accepted		Started
	Create image	 In Progress 	20	Fri, Apr 26, 2024 at 20:29:09 UTC		Fri, Apr 26, 2024 at 20:29:13 UTC

Figure 12. Red Hat Enterprise Linux 9.3 KVM image import on Roving Edge

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Compute > Custom Image Details							
	rhel93						
CI	Create Instance Edit Details	Export Delete					
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	Launch Options						
	Launch options include the netw	rorking type and boot volume attachr	sent type used when launching a vir	tual machine instance. Learn more			
	NIC Attachment Type: PARAVI	RTUALIZED			Firmware: US	FL_64	
	Remote Data Volume: PARAME	RTUALIZED			Boot Volume	Type: PARAMRTUALIZED	
Resources	Work Requests	it tracks each sten in an asynchronous	s operation. Use work requests to m	nonitor the propess of inno-running operations			
Work Requests				1			
	Operation	State	% Complete	Accepted		Started	Finished
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Figure 13. Red Hat Enterprise Linux 9.3 KVM image import on Roving Edge

11. Once you have the image available, create a new instance using the RHEL 9.3 customer image. Go to compute instance, then click create instance. Enter the name of your new RHEL9.3 instance, select the appropriated fault domain in your environment, select the RHEL9.3 custom image previously created, choose the instance shape, configure network, boot volume size, and upload your SSH key to access your new instance. Click create.

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Boot requirements		
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Linux-based instances use an SSH key mit instance of a password to authenticate remote users. Upload the public key now. When you connect to the instance, you will provide the associated private key. SSH keys SSH keys SSH keys SSF keys SSF public key (public files only. SSF public key (public key (pub	Add SSH keys	
Croce SH Keys SH Keys C Drop files here. Q: toware to a location. Strade: key (and files orly.	Linux-based instances use an SSH key pair instead of a password to authenticate remote users. Upload the public key now. When you connect to the instance, you will provide the associated private key.	
SSH keys	Choose SSH key files Paste SSH keys	
Creat Canced	SSH keys	
Creat	C)>Drop files here. Or browse to a location.	
Create Canced	53H 4.468 key (p.42) films only	
Create Cancel		
	Circate Cancel	

Figure 14. Red Hat Enterprise Linux 9.3 KVM instance deployment on Roving Edge

The provisioning of the new RHEL 9.3 instance will start then will change to running status.



	nfrastructure								l l
Compute » Instances » Instance Details									
	rhel9.3								
	Start Stop Reboot Terminate More a	actions •							
	Instance Information								
	General Information				Instance Acces	s			
	Fault Domain: FD-1				Public IP Address: 10.14	15.142.79 Corry			
RUNNING	Region: orei-1				Drimon //NIC				
	OCID:wgt2qq Show Capy				Printary VINIC	16.0			
	Launched: Fri, Apr 26, 2024 at 20:42:34 UTC				Internal FODN: rhel2-3	Show Coov			
	Instance Details				Subnet: pm1	manual matter.			
	Virtual Cloud Network: yen1								
	Image: theight				Launch Options	5			
	Launch Mode: CUSTOM				NIC Attachment Type: P	ARAVIRTUALIZED			
	Shape Configuration				Firmware: UEFI 64	ANAMINTUALIZED			
	Shape: VM.Standard.RED1.1 ()				Boot Volume Type: PARA	AVIRTUALIZED			
	OCPU Count: 1								
	Memory (GB): 12								
	Local Disk: Block Storage Only								
	Cross Numa Node: No								
Resources	Attached Block Volumes								
Attached Block Volumes	BIOCK volumes provide high-performance network sto	prage to support a broad range of I/O in	tensive workloads.						
Attached VNICs	Attach Block Volume								
Boot Volume	Name	State	Volume Type	Device Path		Туре	Access	Size	Created
Work Requests				There are no block volu	mes attached to this instance	e.			
Console Connection									

Figure 15. Red Hat Enterprise Linux 9.3 KVM instance overview on Roving Edge

12. To access your new Red Hat Enterprise Linux 9.3 Instance on Roving Edge, open a SSH connection with the following command line syntax:

ssh -i <your-ssh-key> cloud-user@<ip-address or DNS name of your rhel92 instance>

[cloud-user@rhel9-3 ~]\$ uname -a Linux rhel9-3 5.14.0-362.8.1.el9_3.x86_64 #1 SMP PREEMPT_DYNAMIC Tue 0ct 3 11:12:36 EDT 2023 x86_64 x86_64 x86_64 GNU/Linux [cloud-user@rhel9-3 ~]\$ cat /etc/redhat-release Red Hat Enterprise Linux release 9.3 (Plow) [cloud-user@rhel9-3 ~]\$ ■

Figure 16. Red Hat Enterprise Linux 9.3 KVM ssh on Roving Edge

SUSE Linux Enterprise Server

Importing a SUSE Linux Enterprise Server image on Oracle Compute Cloud@Customer, Oracle Private Cloud or Roving Edge works the same way as importing Red Hat Enterprise Linux 9.2 KVM Guest image, however, with an extra step to be performed after the Custom Image creation steps.

Regarding SUSE Licensing:

- 1. For SUSE-specific support, licensing, and maintenance life cycle questions, refer to https://www.suse.com/contact/
- 2. Login to your SUSE account and download SUSE Linux Enterprise Server (stable release, AMD64/Intel 64 architecture and kvm .qcow2 image) from <u>https://www.suse.com/download/sles/</u>
- 3. Upload the image to an Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, or Roving Edge Object Storage.

NOTE: Minimum SUSE Linux Enterprise Server stable release verified on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, and Roving Edge is the 12 SP4 release. For this example, we will be working with the most recent and available stable release of SUSE Linux Enterprise Server, 15 SP5.



SUSE Linux Enterprise Server Improve uptime, increase efficiency, and accelerate innovation with best-of-breed performance and reduced risk.	Stable Releases 15 SP5 15 SP4 15 SP3 15 SP2 15 SP1 15 12 SP5 12 SP4 12 SP3 12 SP2 12 SP1 12 11 SP4 I1 SP4 I1 SP4 I1 SP4 I1 SP4
Figure 17. SUSE Linux Enter	prise Server download page

Download					
	n				
	kym-and-yen-GM acow2 cdx iso				
	SIESI5-SP5-Minimal-VMv86_64-				
O,	SBOM in CyclopeDX format				
	on				
	kvm-and-xen-GM acow2 spdx is				
*	SLES15-SP5-Minimal-VMx86_64-				
	SPOM in SPDY 2.0 format				
	6.asc				
	kvm-and-xen-GM.qcow2.sha25				
	SLES15-SP5-Minimal-VM.x86_64-				
9	Signature				
	kvm-dnd-xen-GM.qcowz.snd256				
	SLESID-SPD-MINIMUL-VM.X80_64-				
~	Checksum				
	271581184				
	File Size				
	kvm-and-xen-GM.qcow2				
	la sea al sea al contra a secol				

Figure 18. SUSE Linux Enterprise Server qcow2 image

- 4. Once downloaded the new SUSE Linux Enterprise Server Image into the Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge Object Storage, create a Custom Image. On Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance, Click on Compute, Custom image, then Import Image. Enter a name for the new image, select a Compartment which the image will be deployed, source type, which can be Object Storage Bucket or Object Storage URL, then select QCOW2 as image type.
- 5. The Import Image process will begin. Once completed, the new custom image will be available under Custom Images screen.

SLES15-SP5	Available	10/05/2023, 02:47:26 PM		:
			4 items <	Page: 1 >

Figure 19. SUSE Linux Enterprise Server download page

6. To deploy a new instance from the SUSE Linux Enterprise Server custom image previously created, click on the three dots in the action column, then select Create Instance from Image:

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View Details	
Edit	
Copy OCID	
Create Instance From Image	
Export Image	
Delete image	

Figure 20. SUSE Linux Enterprise Server creating instance from image

7. Next, enter a new name for the instance, select your compartment, fault domain, VM Shape, Standard.E5.Flex. Adjust the appropriated OCPUs, Memory (GBs), Boot Volume, subnet (VCN and Subnet), Public and Private IP addressing, host name and SSH keys. Enable Network Security Group and select your appropriated security group for your new instance. Review the availability configuration and tagging, then, click Create.

SLES15-SP5	
Create in Compartment	Fault Domain
solution	Automatically select the best fau 🗢
SLES15-SP5	
Shape	

Figure 21. SUSE Linux Enterprise Server instance creation page

- 8. The provisioning of the new SUSE Linux Enterprise Server instance will begin. Wait until the instance state changes to Running.
- 9. Once running, click Action, View Details, Console Connection, then Create Console Connection to access the console of the SUSE Enterprise Linux Server to continue the instance deployment.
- 10. On Create Console Connection screen, upload your public key to be utilized by the console connection. Click Create Console Connection.



SLES15-SP5	Running	VM.PCAStandard.E5.Flex	FAULT-DOMAIN-1	10/05/2023, 02:56:01 PM	:
				4 items ≪ < Pa	View Details
					Edit
					Copy OCID
					Start
					Stop
					Reset
					Export
					Create Custom Image
					Terminate

Figure 22. SUSE Linux Enterprise Server console connection creation on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

	SLES15-SP	5	Controls 👻
Running	Instance Informati	on Configuration Networking Tags	
	Create Consol	e Connection	
·· ·· ··	Public Key(s)	Provide the SSH public keys used to authenticate the console connection Select the key file(s) Paste the public key(s)	
		Drag and Drop Select or drop files here. +	
		No files selected	
Resources		Create Console Connection Cancel	nection
Attached Block Volumes (0)			
Attached VNICs (1)			
Boot Volumes (1)			
Console Connection (0)			
Instance Exports (0)			
Work Requests (1)			

Figure 23. SUSE Linux Enterprise Server console connection creation/SSH Keys on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

11. Once created, copy the VCN connection fingerprint. For this example, we will be using the VNC connection for Linux/MAC



Resources	Console Cor	nnection	0	reate Console Connection
Attached Block Volumes (0)	State 11	Fingerprint 11	Compartment 1	Actions
Attached VNICs (1)	Active	SHA256:10f7CqV27uTeC22s2E2RHTEAPRh/1v4fGyfB46qtrEs	solution	•
Boot Volumes (1)				Copy OCID
onsole Connection (1)				Copy VNC Connection for Linux/Mac
nstance Exports (0)				Copy VNC Connection for Windows
Work Requests (1)				Delete

Figure 24. SUSE Linux Enterprise Server console connection an VNC access on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

- 12. For VNC Console, install VNC viewer or Tiger VNC on your MAC.
- 13. On Linux or MAC, open a terminal and paste the VNC connection for Linux/MAC previously configured. Example:
 1. ssh -i <your-ssh-key> -p 443 -L
 - 5001:localhost:5001 <u>qmlhmmygom3rnzxggy3qmjxxs5ltn5ya@<ip_address>vnc@ocid1.cccinstance.oc1.us-phoenix-1.ivs2j6f7mga.amaaaaaakdrwrhiaofswmz3zhfrgo6jumr3dcnzynn3g453bme2w45rvm4yq</u>
- 14. On Linux or MAC, open VNC Viewer and enter localhost:5000. Click enter and you will get the console session.



Figure 25. SUSE Linux Enterprise Server VNC console connection on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

15. Click Start to complete the default SUSE Linux Enterprise Server installation.



Figure 26. SUSE Linux Enterprise Server configuration on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

- 16. To access your new SUSE Linux Enterprise Server Instance on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, open a SSH connection with the following command line syntax:
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ssh -i <your-ssh-key> root@<ip-address or DNS name of your SUSE Linux Enterprise Server instance>



Figure 27. SUSE Linux Enterprise Server console on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

IMPORTANT: You may notice that during the boot, SUSE Enterprise Linux might swap the network devices. Ex: rename the device name eth0 to eth1. To avoid this issue, follow the steps listed below.

17. Verify if indeed your SUSE Enterprise Linux is facing the network interface rename/swap issue.

```
localhost:~ # ip link show
```

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

2: eth1: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN mode DEFAULT group default qlen 1000

link/ether 00:13:97:a5:a0:30 brd ff:ff:ff:ff:ff:ff

altname enp0s3

altname ens3

localhost:~ # dmesg -T | grep eth

[Thu May 16 11:55:56 2024] virtio_net virtio0 eth1: renamed from eth0

18. To fix this issue, remove the 70-persistent-net.rules file in your SUSE Enterprise Linux instance, then reboot the instance.

localhost:~ # rm /etc/udev/rules.d/70-persistent-net.rules

localhost:~ # reboot

19. Then to verify if the network device rename issue has been fixed, run the following commands:

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localhost:~ # ip link show

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9000 qdisc mq state UP mode DEFAULT group default qlen 1000

link/ether 00:13:97:a5:a0:30 brd ff:ff:ff:ff:ff
altname enp0s3
altname ens3
localhost:~ # dmesg -T | grep eth

nothing

Alma Linux Operating System

Deploying Alma Linux Enterprise Server image on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge works the same way as importing Red Hat Enterprise operating systems image. Perform the following steps listed below to deploy Alma Linux:

 Download Alma Linux OS 9.2 (Generic Cloud Image.qcow2) from <u>https://almalinux.org/get-almalinux/</u> to an Object Storage in your Oracle Compute Cloud@Customer.

Generic Cloud				
The AlmaLinux OS Generic Cloud images	s are available from our <u>mirrors</u> and from the main A	ImaLinu	x OS repositories:	
<u>AlmaLinux OS 9.2</u>		<u>Alma</u>	Linux OS 8.8 BIOS	
SHA-256: 207d885ca8140e3106098e946cfc	:04088b0e21f50d24815051520d452eae0a50	Ü	SHA-256: c0ad09255d91288dac590d99c951	197d83a2846f1bcbec3f4222fb04265a2a4d7
Download from mirrors	Download CHECKSUM	<u>Alma</u>	Linux OS 8.8 UEFI	
		Ĩ	SHA-256: 6933e2436b7c6f5324937ea66991	f00297b21f8758d1a51cab80fbb8a8926877f
		Down	load from mirrors	Download CHECKSUM
More information about AlmaLinux Gene You can also find the <u>Using Generic Clou</u>	ric Cloud images and verification guidelines are ava ud on a local machine or server guide there.	ilable or	the AlmaLinux Generic Cloud Wik	<u>i Page</u> .

Figure 28. Alma Linux Operating System 9.2 download page

- 2. Once downloaded the new Alma Linux OS 9.2 Image into an Oracle Compute Cloud@Customer Object Storage, Oracle Private Cloud Appliance, or Roving Edge, then create a Custom Image.
- 3. On Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, or Roving Edge, Click on Compute, Custom image, then Import Image. Enter a name for the new image and all information similar to the previous steps, select the source of the image, such as Object Storage Bucket or Object Storage URL, then select QCOW2 as image format.
- 4. The Import Image process will begin. Once completed, the new custom image will be available under Custom Images screen.



	Almalinux9.2	Controls 👻
Available	Custom Image Information Tags	
\bigcap	General Information OCID ezwynlsnfvwg5jupjwa Show Full OCID Copy	Launch Mode Paravirtualized Created 10/18/2023, 08:45:14 AM
& <u></u>	Original Image Compartment solution	

Figure 29. Alma Linux Operating System 9.2 custom image on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

5. To deploy a new instance from the Alma Linux OS custom image previously created, click on the three dots in the action column, then select Create Instance from Image:

View Details
Edit
Copy OCID
Create Instance From Image
Export Image
Delete image

Figure 30. Alma Linux Operating System 9.2 instance creation from image on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

- 6. Next, enter a new name for the instance, select your compartment, fault domain, VM Shape, Standard.E5.Flex. Adjust the appropriated OCPUs, Memory (GBs), Boot Volume, subnet (VCN and Subnet), Public and Private IP addressing, host name and SSH keys.
- 7. Enable Network Security Group and select your appropriated security group for your new instance.
- 8. Review the availability configuration and tagging, then, click Create. The provisioning of the new Alma Linux OS 9.2 instance will begin. Wait until the instance state changes to Running.

Name		
Alma_Linux		
Create in Compartment	Fault Domai	in
solution	- Automat	ically select the best fau 🛛 👻
Source Image		
Source Image	Compartment	Operating System
Source Image Source Type Custom Image -	Compartment solution -	Operating System
Source Image Source Type Custom Image	Compartment solution •	Operating System Operating System



Figure 31. Alma Linux Operating System 9.2 create instance on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

	Anna_Lanux	
Running	Instance Information Configuration Networking Tags	
	General Information	Instance Details
	Fault Domain	Maintenance Reboot
•• 111	Region	Source Almalinux9.2
T III	OCID	Launch Mode PARAVIRTUALIZED
	Show Full OCID Copy	Live migration Use recommended default
	Launched 10/19/2023, 08:31:17 AM	Maintenance recovery action Restore instance
	Compartment solution	

Figure 32. Alma Linux Operating System 9.2 instance details page on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

- 1. To access your new Alma Linux OS 9.2 Instance on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, open a SSH connection with the following command line syntax:
 - ssh -i <your-ssh-key> almalinux@<ip-address or DNS name of your Alma Linux Enterprise Server instance>

[[a]malinux@a	lmalinux]\$	unamo	0										
Larmarriaxea		unume -	u 										
Linux almali	nux 5.14.0-28	84.11.1.0	el9_2.x86_0	54 #1 SMP	PREEMPT_DYN	NAMIC Tue	May 9	05:49:00	EDT 2	.023 x86_	_64 x86_64	x86_64	GNU/Linux
[almalinux@a	lmalinux ~]\$	cat /et	c/almalinux	<pre>k-release</pre>									
AlmaLinux re	lease 9.2 (Tu	urquoise	Kodkod)										
[almalinux@a	lmalinux ~]\$	df -k											
Filesystem	1K-blocks	Used	Available	Use% Mour	ted on								
devtmpfs	4096	0	4096	0% /dev									
tmpfs	5092452	0	5092452	0% /dev	/shm								
tmpfs	2036984	8692	2028292	1% /rum									
/dev/sda4	51687404	1196884	50490520	3% /									
/dev/sda3	518816	118980	399836	23% /boo	t								
/dev/sda2	204580	7176	197404	4% /boo	ot∕efi								
tmpfs	1018488	0	1018488	0% /rum	/user/1000								
[almalinux@a	lmalinux ~]\$												

Figure 33. Alma Linux Operating System 9.2 instance console on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

Kali Linux Operating Systems

To deploy Kali Linux image on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, or Roving Edge, follow the steps listed below:

1. Download Kali Linux Image (Generic Cloud Image) from <u>https://www.kali.org/get-kali/#kali-cloud</u> to an Object Storage in your Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance.



Figure 34. Kali Linux Operating System download page

- 2. Once downloaded the new Kali Image into an Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge Object Storage, create a Custom Image.
- 3. On Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance, Click on Compute, Custom image, then Import Image. Enter a name for the new image, select a Compartment which the image will be deployed, source type, which can be Object Storage Bucket or Object Storage URL, then select QCOW2 as image type. For Roving Edge, follow the same steps listed on RHEL.
- 4. The Import Image process will begin. Once completed, the new custom image will be available under Custom Images screen.
- 5. To deploy a new instance from the Kali Linux custom image previously created, click on the three dots in the action column, then select Create Instance from Image:

View Details
Edit
Copy OCID
Create Instance From Image
Export Image
Delete image

Figure 35. Kali Linux Operating System create instance from image on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

6. Next, enter a new name for the instance, select your compartment, fault domain, VM Shape, Standard.E5.Flex. Adjust the appropriated OCPUs, Memory (GBs), Boot Volume, subnet (VCN and Subnet), Public and Private IP addressing, host name and SSH keys. Enable Network Security Group and select your appropriated security group for your new instance. Review the availability configuration and tagging, then, click Create. The provisioning of the new Kali Linux instance will begin. Wait until the instance state changes to Running.

INSA I MAZANI		1977 M	
Running	Instance Information Configuration Networking Ta	Tags	
	General Information	Instance Details	
	Fault Domain	Maintenance Reboot	
•• 111		Source	
	Region	Kalil_Linux	
•• ••		Launch Mode	
	OCID	PARAVIRTUALIZED	
	Show Full OCID Conv	Live migration	
		Use recommended default	
	Launched	Maintenance recovery action	
	10/19/2023, 09:51:13 AM	Restore instance	
	Compartment solution		

Figure 36. Kali Linux Operating System instance details on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

- 7. Due to security reasons, by default, Kali Linux does not allow SSH connection. To access your new Kali Linux Instance on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, create a console connection following the steps previously explained on SUSE Linux Enterprise Server session, then login on Kali Linux with the default username: kali and password: kali.
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Figure 37. Kali Linux Operating System console on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance and Roving Edge

Ubuntu Linux Operating Systems

To deploy Ubuntu Server 20.04 LTS (or higher) Linux image on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, follow the steps listed below:

1. Download Ubuntu Linux Image (Generic Cloud Image - Amd64 - QCow2 UEFI/GPT Bootable disk image) from Ubuntu Cloud images: <u>https://cloud-images.ubuntu.com/focal/</u> to an Object Storage

Ubuntu Cloud	Images 20.04	Daily Build
--------------	--------------	-------------

Ubuntu Cloud Images are the offic	ial Ubuntu images and are p	re-installed disk images that have been customized by Ubuntu engineering to run on public clouds that provide Ubuntu Certified Images, Openstack, LXD, and more.
For more information, please see	the following:	
Ubuntu Cloud Portal Commercial Support Options Community Help Page		
Cloud image specific bugs should	be filed in the cloud-images	project on Launchpad.net.
Ubuntu Server 20	0.04 LTS (Foca	al Fossa) Daily Builds
Name	Last modified	Size Description
Parent Directory		-
20240130/	2024-01-31 00:31	-
20240206/	2024-02-07 00:28	-
20240207/	2024-02-08 00:28	
20240214/	2024-02-15 00:29	
20240215/	2024-02-16 00:29	
20240219/	2024-02-20 00:29	-
current/	2024-02-20 00:29	-

Figure 38. Ubuntu Linux Operating System download page

2	focal-server-cloudimg-amd64.img	2024-02-19	22:22	613M	QCow2	UEFI/GPT	Bootable	disk	image
2	focal-server-cloudimg-arm64.img	2024-02-19	22:58	587M	QCow2	UEFI/GPT	Bootable	disk	image
2	focal-server-cloudimg-armhf.img	2024-02-19	23:55	904M	QCow2	UEFI/GPT	Bootable	disk	image
2	focal-server-cloudimg-ppc64el.img	2024-02-19	22:46	604M	QCow2	UEFI/GPT	Bootable	disk	image
	focal-server-cloudimg-s390x.img	2024-02-19	22:29	526M	QCow2	UEFI/GPT	Bootable	disk	image

Figure 39. Ubuntu Linux Operating System download page

- 2. Once downloaded the new Ubuntu image into an Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge Object Storage, create a Custom Image.
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- 8. On Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance, Click on Compute, Custom image, then Import Image. Enter a name for the new image, select a Compartment which the image will be deployed, source type, which can be Object Storage Bucket or Object Storage URL, then select QCOW2 as image type. For Roving Edge, follow the same steps listed on RHEL.
- 3. The Import Image process will begin. Once completed, the new custom image will be available under Custom Images screen.
- 4. To deploy a new instance from the Ubuntu Linux custom image previously created, click on the three dots in the action column, then select Create Instance from Image:

View Details
Edit
Copy OCID
Create Instance From Image
Export Image
Delete image

Figure 40. Ubuntu Linux Operating System create instance from image on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

5. Next, enter a new name for the instance, select your compartment, fault domain, VM Shape, Standard.E5.Flex. Adjust the appropriated OCPUs, Memory (GBs), Boot Volume, subnet (VCN and Subnet), Public and Private IP addressing, host name and SSH keys. Enable Network Security Group and select your appropriated security group for your new instance. Review the availability configuration and tagging, then, click Create. The provisioning of the new Kali Linux instance will begin. Wait until the instance state changes to Running.

30.), D) 11/(s		
	Ubuntu 20.04 LTS	Controls
nning	Instance Information Configuration Networking Tags	
S. Wiegell	General Information	Instance Details
	Fault Domain	Maintenance Reboot
•• 111	Region	Source Ubuntu 20.04 LTS
•• ••	OCID	Launch Mode PARAVIRTUALIZED
	Show Full OCID Copy	Legacy Instance Metadata Service Endpoints Enabled
	Launched 02/20/2024, 04:33:55 PM	Live migration Use recommended default
	Compartment	Maintenance recovery action

Figure 41. Ubuntu Linux Operating System instance details on Oracle Compute Cloud@Customer or Oracle Private Cloud Appliance

6. To access your new Ubuntu 20.04 LTS Linux Instance on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, open a SSH connection with the following command line syntax:

laptop@user% ssh -i <your-ssh-key> ubuntu@<ip-address or DNS name of your Ubuntu Linux instance>
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-171-generic x86_64)

- * Documentation: https://help.ubuntu.com
- * Management: https://landscape.canonical.com
- * Support: https://ubuntu.com/pro
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System information as of Wed Feb 21 01:34:53 UTC 2024

System load:	0.0	Processes:	136
Usage of /:	2.9% of 48.27GB	Users logged in:	0
Memory usage:	0%	IPv4 address for ens3:	x.x.x.x
Swap usage:	0%		

Expanded Security Maintenance for Applications is not enabled. 0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.

ubuntu@ubuntu:~\$

Oracle Linux STIG

The Oracle Linux STIG image is an implementation of Oracle Linux that follows the Security Technical Implementation Guide (STIG). With the STIG image, you can configure an Oracle Linux instance in Oracle Cloud Infrastructure that follows certain security standards and requirements set by the Defense Information Systems Agency (DISA).

To deploy Oracle Linux STIG image on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, follow the steps listed below:

1. Launch a new Linux STIG instance from Marketplace in OCI.



Figure 42. STIG Linux Operating System instance deployment on OCI

2. Make sure in "Boot Volume" options the option "Use in-transit encryption" is unchecked.

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Boot volume
A boot volume is a detachable device that contains the image used to boot the compute instance.
Specify a custom boot volume size Volume performance varies with volume size. Default boot volume size: 46.6 GB. When you specify a custom boot volume size, service limits apply.
Use in-transit encryption Encrypts data in transit between the instance, the boot volume, and the block volumes.
Encrypt this volume with a key that you manage By default, Oracle manages the keys that encrypt this volume, but you can choose a key from a vault that you have access to if you want greater control over the key's lifecycle and how it's used. <u>How do I manage my own encryption keys?</u>

Figure 43. STIG Linux Operating System instance deployment on OCI – Boot Volume Options

- 3. After instance is launched and running, create a new custom image
- 4. Export the new custom image with "name.oci" to an object storage bucket in OCI, then download it
- 5. Untar the image
- 6. Edit the metadata json file and set consistent volume name to "false"
- 7. Tar up the image again, then upload the image to the Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge
- 8. Use the new image to launch the STIG 8 Linux instance

	d@Customer	Auto Reload Solutions 🗸
Dashboard / Instances / stig8		
	stig8	Controls 👻
Running	Instance Information Configuration Networking Tag	gs
	General Information	Instance Details
	Fault Domain	Maintenance Reboot
•• 111	Region	Source stig8.oci
<u></u>	OCID	Launch Mode PARAVIRTUALIZED
	Show Full OCID Copy	Legacy Instance Metadata Service Endpoints Enabled
	Launched 12/05/2023, 03:30:26 PM	Live migration Use recommended default
	Compartment solution	Maintenance recovery action Restore instance

Figure 44. STIG Linux Operating System instance running on Compute Cloud@Customer or Private Cloud Appliance

9. To access your new STIG 8 Linux Instance on Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge, open a SSH connection with the following command line syntax:

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laptop@user% ssh -i <your-ssh-key> opc@<ip-address or DNS name of your STIG Linux instance>

[opc@stig8 ~]\$ uname -a					
Linux stig8 5.15.0-102.110.5.	1.el8uek.x8	86_64 #2	SMP Sat Ju	un 10	18:15:29 PDT 2023 x86_64 x86_64 x86_6
4 GNU/Linux					
[opc@stig8 ~]\$ cat /etc/oracle	e-release				
Oracle Linux Server release 8	. 8				
[opc@stig8 ~]\$ df -k					
Filesystem	1K-blocks	Used	Available	Use%	Mounted on
devtmpfs	4891932	0	4891932	0%	/dev
tmpfs	4935172	0	4935172	0%	/dev/shm
tmpfs	4935172	16984	4918188	1%	/run
tmpfs	4935172	0	4935172	0%	/sys/fs/cgroup
/dev/mapper/ocivolume-root	21456656	8545948	12910708	40%	/
/dev/sda2	1038336	345452	692884	34%	/boot
/dev/mapper/ocivolume-tmp	1038336	40428	997908	4%	/tmp
/dev/mapper/ocivolume-home	3135488	55004	3080484	2%	/home
/dev/mapper/ocivolume-var	5232640	516624	4716016	10%	/var
/dev/sda1	102182	5130	97052	6%	/boot/efi
/dev/mapper/ocivolume-log	3135488	56140	3079348	2%	/var/log
/dev/mapper/ocivolume-oled	8378368	96536	8281832	2%	/var/oled
/dev/mapper/ocivolume-var_tmp	1038336	40404	997932	4%	/var/tmp
/dev/mapper/ocivolume-audit	4184064	63960	4120104	2%	/var/log/audit
tmpfs	987032	0	987032	0%	/run/user/1000

Figure 45. STIG Linux Operating System console on Compute Cloud@Customer or Private Cloud Appliance

Windows Server

On Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, and Roving Edge, you can bring your own (BYOL) Windows Server license, deploy the instance, and register your Windows operating systems with Microsoft accordingly.

To bring your own Windows Server license from VMware, Oracle VM/PCA 2.x or VirtualBox to Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance, or Roving Edge, please refer to steps listed on the following MOS note: <u>https://mosemp.us.oracle.com/epmos/faces/DocumentDisplay? afrLoop=482050377702170&id=2852064.1& afrWindowMode=</u> <u>0& adf.ctrl-state=ht505avf5 4</u>

NOTE: This MOS note uses Oracle Private Cloud Appliance as example, however the same step-by-step can be utilized to BYOL your Windows Server image into Oracle Compute Cloud@Customer, Oracle Private Cloud Appliance or Roving Edge



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