

# Oracle Linux for Oracle Cloud Infrastructure

## Frequently Asked Questions

Oracle Linux provides an operating environment that is optimized for performance, scalability, reliability, and security. It powers Oracle Cloud Applications, Oracle Cloud Platform, and Oracle Cloud Infrastructure. Oracle Linux offers the most cost-effective and integrated operating environment for Oracle Cloud, with the best platform experience for Oracle and non-Oracle applications alike.

This document provides answers to frequently asked questions relating to Oracle Linux for Oracle Cloud Infrastructure, and includes support, licensing, compatibility, deployment, and resources information.

## ORACLE LINUX FEATURES IN ORACLE CLOUD INFRASTRUCTURE

### What Oracle Linux features are provided for Oracle Cloud Infrastructure customers?

- Customers deploying [Oracle Linux](#) on [Oracle Cloud Infrastructure](#) have access to the features, components, and Linux programs supported under [Oracle Linux Support](#) as outlined in the Oracle Linux [6](#) and [7](#) License Information User Manual, as well as additional features and tools provided to facilitate and enhance the deployment and development platform experience in Oracle Cloud Infrastructure. Features and tools available to Oracle Linux customers on Oracle Cloud Infrastructure include:
- Access to frequent Oracle Linux image updates with the latest bug fixes, security errata, Oracle Cloud tools and enhancements.
- Faster downloads from the mirrored [Oracle Container Registry](#) and [Oracle Linux yum server](#) within Oracle Cloud Infrastructure, without having to incur network charges.
- Pre-installed access to Oracle [Ksplice](#) in Oracle Cloud Infrastructure, ready to update the OS kernel and user space with zero downtime.
- Comprehensive container and container management support. Support is included for [Oracle Container Runtime for Docker](#) and [Oracle Linux Container Services for use with Kubernetes](#).
- Oracle Linux OS and KVM images available directly from within the Oracle Cloud Marketplace in Oracle Cloud Infrastructure, enabling easy and rapid deployment of compute instances on Oracle Cloud Infrastructure.
- Oracle Cloud Infrastructure utilities to simplify and accelerate the deployment and configuration of Oracle Linux and KVM instances on Oracle Cloud Infrastructure.
- An optimized developer platform that allows for easy access to Linux developer and preview software channels available in the Oracle Linux yum server, and thousands of EPEL packages, built and signed by Oracle for security and compliance. In addition, Software Collection Library support is included to enable developers to install recent versions of Python, PHP, NodeJS, nginx, and more, without risk of disrupting applications running on different versions of these components.
- Oracle Cloud Infrastructure client tools such as Terraform, Software Development Kits (SDKs), and Command Line Interface (CLI) are deployed faster and easier through Oracle-provided yum server RPM's available locally in Oracle Cloud.
- Access to the [Oracle Cloud Developer Image](#), an Oracle Linux 7 based, ready-to-run image that provides a comprehensive out-of-the-box development platform on Oracle Cloud Infrastructure. It pre-installs and automatically configures and launches a complete development environment on Oracle Cloud Infrastructure that includes the latest tools, a choice of popular development languages, Oracle Cloud Infrastructure software development kits, and Oracle Database connectors. This image is available to Oracle Cloud Infrastructure customers at no additional cost. However, some individual components included in the image may have additional licensing and support subscription requirements. Check with the component licensing and support policy, an Oracle Sales Representative, or Oracle Sales Consultant.
- Ability to quickly and easily build NFS and Samba shared storage using NVMe devices or block volumes attached to Oracle Cloud Infrastructure compute instances by using the [Oracle Linux Storage Appliance](#).

- [Oracle Linux Cloud Native Environment](#) features for customers to develop microservices-based applications that can be deployed in environments that support open standards and specifications.
- Direct access to the embedded [Oracle Cloud Marketplace](#) and Partner Image Catalog in Oracle Cloud Infrastructure to quickly and easily install Oracle Linux images, Oracle Linux KVM, Oracle Linux Storage Appliance, Oracle Cloud Developer Image and other Oracle and partner applications.
- [Extended Support for Oracle Linux 5](#) and legacy Red Hat Enterprise Linux 5 release systems until June 2020.

## ORACLE LINUX SUPPORT ON ORACLE CLOUD INFRASTRUCTURE

### What does Oracle Linux Support cost on Oracle Cloud Infrastructure?

- With an [Oracle Cloud Infrastructure](#) subscription, there is no additional cost for [Oracle Linux Premier Support](#). This includes support for additional Oracle Linux features and tools that integrate with, and enhance the cloud platform experience on Oracle Cloud Infrastructure.

### Are customers who run Oracle Linux on Oracle Cloud Infrastructure covered by Oracle Linux 5 Extended Support?

- Oracle Linux 5 Extended Support is available at no additional cost to Oracle Cloud Infrastructure subscribers. The customer's Customer Support Identifier (CSI) will need to be associated with the Oracle Linux 5 Extended Support part number in order to be granted entitlement, and to access the appropriate channels on the Oracle Unbreakable Linux Network (ULN). More information can be found in the [My Oracle Support \(MOS\) note: 2289020.1](#).

## ORACLE SUPPORT FOR OTHER LINUX INSTALLATIONS

### Does Oracle provide support for Red Hat Enterprise Linux instances on Oracle Cloud Infrastructure?

- Oracle supports existing customer Red Hat Enterprise Linux (RHEL) installations by providing Oracle Linux Premier Support included as part of Oracle Cloud Infrastructure (OCI) subscriptions at no additional cost to OCI customers.
- To update RHEL instances, Oracle provides updates that are available as Oracle Linux binaries. Such binaries are fully compatible with RHEL and will work without any reinstallation or other coding changes.
- Customers can choose to switch to Oracle Linux to take advantage of all the features and benefits provided. Oracle Linux is fully compatible with RHEL and you can use the Oracle Linux Unbreakable Enterprise Kernel (UEK) or Red Hat Compatible Kernel (RHCK), which are both supported by Oracle. See the document on [Switching to Oracle Linux on Oracle Cloud Infrastructure](#) for details.

### Does Oracle provide support for CentOS instances on Oracle Cloud Infrastructure?

- Oracle supports existing customer CentOS installations by providing Oracle Linux Premier Support included as part of Oracle Cloud Infrastructure (OCI) subscriptions at no additional cost to OCI customers.

- To update CentOS instances, Oracle provides updates that are available only as Oracle Linux binaries. Such binaries are fully compatible with CentOS and will work without any reinstallation or other coding changes.
- Customers can choose to switch to Oracle Linux to take advantage of all the features and benefits provided. Instructions to switch to Oracle Linux can be found in the following document: [Oracle Linux: A Better Alternative to CentOS](#).

#### **How do I obtain software updates for Red Hat Enterprise Linux and CentOS installations on Oracle Cloud Infrastructure?**

- The [Getting Started – How to Connect to Oracle Linux Yum Server](#) document provides information on how to connect to the Oracle Linux yum server and obtain software updates via yum for Oracle Linux and compatible Linux distributions such as Red Hat Enterprise Linux (RHEL), CentOS and Scientific Linux. The article, [How to Change the Yum Configuration to Use Oracle Linux in Oracle Cloud Infrastructure](#) provides an example of connecting to the Oracle Linux yum server from a CentOS 7 instance in Oracle Cloud Infrastructure.

#### **SUPPORT FOR THE ORACLE LINUX RED HAT COMPATIBLE KERNEL (RHCK) ON ORACLE CLOUD INFRASTRUCTURE**

##### **Is the Oracle Linux Red Hat Compatible Kernel (RHCK) supported on Oracle Cloud Infrastructure?**

- Oracle Linux comes with a choice of two kernels, the [Unbreakable Enterprise Kernel \(UEK\)](#), which is installed and enabled by default, and the [Red Hat Compatible Kernel \(RHCK\)](#). Oracle Linux support is provided for both the UEK and RHCK on Oracle Cloud Infrastructure.

##### **How do I change the default kernel in Oracle Linux to RHCK?**

- To change the default kernel (UEK) for Oracle Linux instances in Oracle Cloud Infrastructure, and boot into an older or other kernel such as RHCK, refer to the document: [Oracle Linux – How to Change the Default Kernel](#).

#### **SWITCHING TO ORACLE LINUX ON ORACLE CLOUD INFRASTRUCTURE**

##### **How do I switch from Red Hat Enterprise Linux (RHEL) to Oracle Linux on Oracle Cloud Infrastructure?**

- To switch from RHEL to Oracle Linux on Oracle Cloud Infrastructure, you will need to configure your system to apply updates for your RHEL deployment using the mirrored Oracle Linux yum server within your Oracle Cloud Infrastructure region. It is recommended that you use the mirrored yum server in Oracle Cloud Infrastructure rather than the [Unbreakable Linux Network \(ULN\)](#) when running Oracle Linux in Oracle Cloud Infrastructure, since access to the mirrored regional yum server is faster and does not incur any network charges. Refer to the [Getting Started – How to Connect to Oracle Linux Yum Server](#) document on how to connect to the Oracle Linux yum server and obtain software updates via yum for Oracle Linux and compatible Linux distributions such as Red Hat Enterprise Linux (RHEL).
- Alternatively, you can switch from using the Red Hat Network (RHN) to the Unbreakable Linux Network (ULN). Refer to the following instructions to switch from the Red Hat Network (RHN) to the Oracle Unbreakable Linux Network (ULN):
- Switching from the Red Hat Network (RHN) to the Oracle Unbreakable Linux Network (ULN): <https://linux.oracle.com/switch.html>.

- Oracle Linux: How to Switch from Red Hat Network to Unbreakable Linux Network (ULN) – [My Oracle Support \(MOS\) Doc ID 397038.1](#).

#### **How do I switch from CentOS to Oracle Linux on Oracle Cloud Infrastructure?**

- To switch from CentOS to Oracle Linux, you will need to configure your system to apply Oracle Linux updates for your CentOS system from the Oracle yum server repository or ULN. Oracle will provide support for CentOS by providing Oracle binaries and for Oracle Linux kernels (UEK, RHCK). Instructions to switch to Oracle Linux can be found in the following document: [Oracle Linux: A Better Alternative to CentOS](#).

### **ORACLE KSPSPACE SUPPORT FOR RED HAT ENTERPRISE LINUX, CENTOS, AND UBUNTU INSTANCES**

#### **Can I use Oracle Ksplice for zero-downtime patching of my Red Hat Enterprise Linux, CentOS, and Ubuntu instances on Oracle Cloud Infrastructure?**

- Oracle Ksplice is supported for RHEL, CentOS, and Ubuntu instances on Oracle Cloud Infrastructure (OCI) at no additional cost to OCI customers. More information can be found in the in the [Installing Ksplice Uptrack within Oracle Cloud Infrastructure](#) section of the [Ksplice User's Guide](#).

### **USING ORACLE LINUX ON ORACLE CLOUD INFRASTRUCTURE**

#### **How can I try out Oracle Linux on Oracle Cloud Infrastructure?**

- You will need to register for an Oracle Cloud Infrastructure account. If you do not have an Oracle Cloud Infrastructure account, sign up [here](#). You may be eligible for [free cloud trial credits](#).
- Review the instructions in the [Getting Started: Oracle Linux for Oracle Cloud Infrastructure](#) guide.

#### **How can I deploy Oracle Linux and other Oracle Linux based instances on Oracle Cloud Infrastructure?**

- Oracle Linux 6, 7 and 7 GPU images are available directly from within Oracle Cloud Infrastructure so that you can quickly and easily deploy the latest Oracle Linux images on Oracle Cloud Infrastructure. Oracle Linux images available on Oracle Cloud Infrastructure are updated frequently to include the latest security patches and updates, including enhancements and tools to work with Oracle Linux on Oracle Cloud Infrastructure.
- You can easily deploy Oracle Linux instances in Oracle Cloud Infrastructure using the Oracle Linux 6, 7 and 7 GPU images available from the Platform Images Catalog in Oracle Cloud Infrastructure, when creating a compute instance from the Oracle Cloud Infrastructure console. For more information on deploying and using Oracle Linux on Oracle Cloud Infrastructure, consult the [Getting Started: Oracle Linux for Oracle Cloud Infrastructure](#) guide.
- Oracle Linux KVM Image, Oracle Linux Storage Appliance, and Oracle Cloud Developer Image instances can be easily and quickly deployed using the embedded [Oracle Cloud Marketplace](#) in Oracle Cloud Infrastructure. Simply navigate to the Marketplace from the Oracle Cloud Infrastructure console, select the Oracle Linux KVM Image, Oracle Linux Storage Appliance, or Oracle Cloud Developer Image application to launch the instance with a few simple clicks. For more information, see [Getting Started: Oracle Linux KVM for Oracle Cloud Infrastructure](#) and the [Oracle Linux Storage Appliance Deployment and User's Guide](#).

## ORACLE LINUX PARTNER APPLICATIONS

### Where can I find a list of Oracle Linux and Oracle Cloud Infrastructure partner applications?

- Scores of leading technology partners—independent software vendors, hardware vendors, and system integrators—stand behind Oracle Linux. Oracle Linux also works out-of-the-box with partner solutions supported on Red Hat Enterprise Linux. For a list of Oracle Linux partners including independent software vendors and system integrators, visit the following links:
- [Oracle Linux and Virtualization Independent Software Provider Catalog](#)
- Partner applications for Oracle Cloud Infrastructure can be found on the [Oracle Cloud Marketplace](#).

## ORACLE LINUX FOR ORACLE CLOUD INFRASTRUCTURE RESOURCES

### Where can I find more information on Oracle Linux for Oracle Cloud Infrastructure?

- More information on Oracle Linux for Oracle Cloud Infrastructure and related technologies can be found at the following links:
- Data Sheet: [Oracle Linux for Oracle Cloud Infrastructure](#)
- [Oracle Linux](#) on oracle.com
- [Oracle Cloud Infrastructure](#)
- Oracle Linux Documentation
  - [Oracle Linux 6 Documentation](#)
  - [Oracle Linux 7 Documentation](#)
  - [Oracle Linux 8 Documentation](#)
- Related technologies and features provided by Oracle Linux on Oracle Cloud Infrastructure:
  - [Oracle Ksplice](#)
  - [Oracle Cloud Infrastructure Utilities](#)
  - [Oracle Linux KVM Image for Oracle Cloud Infrastructure](#)
  - [Oracle Linux Storage Appliance](#)
  - [Oracle Container Runtime for Docker](#)
  - [Oracle Container Services for Use with Kubernetes](#)
  - [Oracle Linux Cloud Native Environment](#)
  - [Oracle Cloud Developer Image](#)

### How do I know exactly what entitlements are included with Oracle Linux Support?

- Refer to the following Oracle Linux License Information User Manuals for a list of entitled or restricted use products or components supported by Oracle Linux:
- [Oracle Linux License Information Manual for Release 6](#)
- [Oracle Linux License Information Manual for Release 7](#)

- [Oracle Linux License Information Manual for Release 8](#)

### Are there any Oracle Linux on Oracle Cloud Infrastructure training materials available?

- Training materials can be found on the [Oracle Linux on Oracle Cloud Infrastructure training portal](#) and from the [Build Your Cloud](#) videos.

### How can I stay connected with Oracle Linux for Oracle Cloud Infrastructure news and announcements?

- Follow us for announcements, news, tips, and events:
- [Oracle Linux Blog](#)
- [Oracle Cloud Infrastructure Blog](#)
- [Oracle Linux Community](#)
- [Oracle Linux for Oracle Cloud Infrastructure Community](#)
- [Twitter - Oracle Linux](#)
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- [Linkedin – Oracle Linux Experts Group](#)

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## Integrated Cloud Applications & Platform Services

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