

Oracle® Cloud

Images for Oracle WebLogic Server for OCI



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Images for Oracle WebLogic Server for OCI

Learn about the images in Oracle WebLogic Server for Oracle Cloud Infrastructure (Oracle WebLogic Server for OCI) and how to use these images to create instances in Oracle WebLogic Server for Oracle Cloud Infrastructure.

Topics:

- [About Oracle WebLogic Server for OCI Images](#)
- [Patches for an Image](#)
- [Use an Image](#)
- [Create Compartment Policies](#)
- [Create an Instance](#)

About Oracle WebLogic Server for OCI Images

The Oracle WebLogic Server for OCI Oracle WebLogic Server for OCI Universal Credits Model (UCM) images are publicly available in the marketplace from release 21.3.3. These Oracle WebLogic Server for OCI images include binaries of the Oracle WebLogic Server and the Java Development Toolkit (JDK).

Oracle Linux 7.9 and Oracle Linux 8.5 images are supported for Oracle WebLogic Server for OCI images. These Linux images with WebLogic software zips are located in `/u01/shared` location.



Note:

All images prior to image version, `22.1.2-220224065812` are Oracle Linux 7.9.

For Oracle Linux 7.9, the Oracle WebLogic server versions supported are 12.2.1.3, 12.2.1.4, and 14.1.1.0, and for Oracle Linux 8.5, the Oracle WebLogic server versions supported are 12.2.1.4 and 14.1.1.0.

Oracle WebLogic Server for OCI supports BYOL and Paid images.

If you use BYOL images, you are not billed for WebLogic usage, but you need a valid WebLogic license and support contract. If you use Paid images, you are billed per OCPU per hour for the entitlement to run WebLogic software, but you don't need a WebLogic license and support contract.

The following images are available in Oracle WebLogic Server for OCI:

- Oracle WebLogic Server Enterprise Edition UCM Image - Includes all the entitlements included in the Oracle WebLogic Server Enterprise Edition license and WebLogic support.
- Oracle WebLogic Suite UCM Image - Includes all the entitlements included in the Oracle WebLogic Suite license and WebLogic support.

- Oracle WebLogic Server Image for Roving Edge Infrastructure BYOL - Enabled to be used in Oracle Roving Edge Infrastructure and requires a WebLogic license and a support contract.

Shapes for Oracle WebLogic Server for OCI images

The following shapes are supported for Oracle WebLogic Server for OCI images:

- Oracle WebLogic Server Enterprise Edition UCM Image and Oracle WebLogic Suite UCM Image:
 - **Standard** - VM.Standard2.x, VM.Standard.E2.x, BM.Standard2.x, BM.Standard.E2.x, BM.Standard3.64
 - **Flexible** - VM.Standard.E3.Flex, VM.Standard.E4.Flex, VM.Standard3.Flex
 - **Optimized** - BM.Optimized3.36, VM.Optimized3.Flex
- Oracle WebLogic Server Image for Roving Edge Infrastructure BYOL:
 - **Standard** - VM.Standard2.x, VM.Standard.E2.x, BM.Standard2.x, BM.Standard.E2.x
 - **Flexible** - VM.Standard.E3.Flex, VM.Standard.E4.Flex

Patches for an Image

You can use the patching tool utility on Oracle WebLogic Server for OCI images to download and apply patches. See [Download Patches Using the Patching Tool Utility](#).

Use an Image

You can use Oracle WebLogic Server for OCI images to create Oracle WebLogic Server domains in Oracle Cloud Infrastructure compute instances with entitlement to use WebLogic software.

When using the Oracle WebLogic Server for OCI images:

- Ensure that you specify an SSH key when you create an instance using the image. You need this SSH key to access the instance and launch the instance.
- Connect to an instance as the `opc` user using the SSH command.

```
ssh -i <private_key_file> opc@<public-ip-address>
```

Where, `private_key_file` is the corresponding private key for the public key used during provisioning.

After you login as `opc` user, switch to `oracle` user.

```
sudo su - oracle
```

See [Connecting to a Linux Instance in Oracle Cloud Infrastructure documentation](#).

- Unzip the JDK binaries located at `/u01/zips/jcs` based on the JDK version.

```
unzip /u01/zips/jcs/<JDK_Version>/jdk.zip -d /
```

Example:

```
unzip /u01/zips/jcs/JDK8.0/jdk.zip -d /
```

 **Note:**

As WebLogic server 14.1.1.0 supports JDK 11, the JDK binaries are also located at `/u01/zips/jcs/JDK11.0/jdk.zip`.

- Unzip the WebLogic binaries located at `/u01/zips/jcs/FMW` based on the Oracle WebLogic Server version.

```
unzip /u01/zips/jcs/FMW/<WebLogic_Version>/fmiddleware.zip -d /
```

Example:

```
unzip /u01/zips/jcs/FMW/12.2.1.4.0/fmiddleware.zip -d /
```

- Set read and write permissions to `/u01` folder.

```
chmod -R 775 /u01/
```

Now, the location of your JDK is `/u01/jdk/` and the location of Fusion Middleware is `/u01/app/oracle/`. You can create and configure a WebLogic domain for the WebLogic Server versions supported in this image. See the following documents:

- [Creating a WebLogic Domain \(14.1.1.0\)](#)
- [Creating a WebLogic Domain \(12.2.1.4.0\)](#)
- [Creating a WebLogic Domain \(12.2.1.3.0\)](#)

Create Compartment Policies

If you are not an Oracle Cloud Infrastructure administrator, you must be given management access to Marketplace applications and Resource Manager stacks to be able to create compute instances using Oracle WebLogic Server for OCI images.

The sample policies are shown below:

```
Allow group MyGroup to use app-catalog-listing in compartment MyCompartment
Allow group MyGroup to manage instance-family in compartment MyCompartment
Allow group MyGroup to manage orm-family in compartment MyCompartment
Allow group MyGroup to manage virtual-network-family in compartment
MyNetworkCompartment
```

See [Common Policies](#) in the Oracle Cloud Infrastructure documentation.

Create an Instance

Learn how to create an Oracle WebLogic Server for OCI compute instance using Oracle WebLogic Server for OCI images.

Topics:

- [Create an Instance Using the Compute Instance Console](#)
- [Create an Instance Using the Marketplace](#)

Create an Instance Using the Compute Instance Console

You can create a new instance using Oracle WebLogic Server for OCI images from the compute instance console.

1. Sign in to the Oracle Cloud Infrastructure console.
2. Click the navigation menu, select **Compute**. Under the **Compute** group, click **Custom Images**.
3. Click the image for which you want to create the instance.
4. Click **Create Instance**.
You can change the name of the instance if needed.
5. Select the compartment in which to create the instance.
6. Under **Placement**, select the **Availability Domain** in which to create the instance.
To specify capacity type and fault domain, click **Show advanced options**.
7. Under **Image and Shape**, click **Change Image** and do the following:
 - a. From the **Image source** dropdown, select *Oracle Images*, and then select one of the following Oracle WebLogic Server for OCI images:
 - Oracle WebLogic Server Enterprise Edition UCM Image
 - Oracle WebLogic Suite UCM Image
 - Oracle WebLogic Server Image for Roving Edge Infrastructure BYOL
 - b. For the selected image, click the arrow on the right, and then select the image build version for the paid images.
 - Oracle Linux 7.9 (labelled as `<release>-o17.9-<build>-<timestamp>`)
 - Oracle Linux 8.5 (labelled as `<release>-o18.5-<build>-<timestamp>`)
 - c. Review the terms and conditions and select the **Oracle Terms of Use** check box and click **Select Image**.
8. Under **Image and Shape**, click **Change Shape**. Select the **Instance Type** and select the shape.
If you're creating a virtual machine, under **Shape series**, select a processor group, and then choose a shape.
To know the shapes that are supported, see [Shapes for the images](#).
9. Configure the network for the instance.
To specify advanced network settings, click **Show advanced options**.
10. Under **Add SSH keys**, generate a key, upload your public key, or paste the keys.
11. Under **Boot Volume**, specify the size and encryption options for the instance's boot volume.
12. Click **Show advanced options** to configure advanced settings.
13. Click **Create**.

For details, see [Creating a Linux instance in Oracle Cloud Infrastructure documentation](#).

Create an Instance Using the Marketplace

You can create a new instance using Oracle WebLogic Server for OCI images from the Marketplace.

1. Sign in to the Oracle Cloud Infrastructure console.
2. Click the navigation menu, select **Marketplace**, and then click **All Applications**.
3. Select one of the following Oracle WebLogic Server for OCI images:
 - Oracle WebLogic Server Enterprise Edition UCM Image
 - Oracle WebLogic Suite UCM Image
 - Oracle WebLogic Server Image for Roving Edge Infrastructure BYOL
4. From the **Version** dropdown, select the image build version.

Every image is built for an specific operating system and hence may support different operating systems.

- Oracle Linux 7.9 (labelled as `<release>-ol7.9-<build>-<timestamp>` or `<release>-<build>-<timestamp>`).

 **Note:**

The older Oracle Linux 7.9 images are labelled as `<release>-<build>-<timestamp>`.

- Oracle Linux 8.5 (labelled as `<release>-ol8.5-<build>-<timestamp>`).
 - Oracle Linux 7.9 following Security Technical Implementation Guide (STIG). This is currently available for Roving Edge Infrastructure only (labeled as WLS `<release>-ol7.9-<build>-ST`).
5. Review the terms and conditions and select the **Oracle Terms of Use** check box.
 6. Click **Launch Instance**.
 7. Select the compartment in which to create the instance.
 8. Under **Placement**, select the **Availability Domain** in which to create the instance.
To specify capacity type and fault domain, click **Show advanced options**.
 9. Under **Image and Shape**, click **Change Shape**. Select the **Instance Type** and select the shape.
If you're creating a virtual machine, under **Shape series**, select a processor group, and then choose a shape.
To know the shapes that are supported, see [Shapes for the images](#).
 10. Configure the network for the instance.
To specify advanced network settings, click **Show advanced options**.
 11. Under **Add SSH keys**, generate a key, upload your public key, or paste the keys.
 12. Under **Boot Volume**, specify the size and encryption options for the instance's boot volume.

13. Click **Show advanced options** to configure advanced settings.
14. Click **Create**.

For details, see [Creating a Linux instance in Oracle Cloud Infrastructure documentation](#).