

Working with Block Volumes/resizing a volumem.txt

Resizing a Volume

The Oracle Cloud Infrastructure Block Volume service lets you expand the size of block volumes and boot volumes. You have several options

Expand an existing volume in place with online resizing. See [Online Resizing of Block Volumes Using the Console](#) for the steps to do this.

Restore from a volume backup to a larger volume. See [Restoring a Backup to a New Volume](#) and [Restoring a Boot Volume](#).

Clone an existing volume to a new, larger volume. See [Cloning a Block Volume](#) and [Cloning a Boot Volume](#).

Expand an existing volume in place with offline resizing. See [Offline Resizing of Block Volumes Using the Console](#) for the steps to do thi

For more information about the Block Volume service, see the [Block Volume FAQ](#).

You can only increase the size of the volume, you cannot decrease the size.

Note

If cross-region replication is enabled for the volume you want to resize, before you resize the volume, you must disable cross-region replication. See [Disabling Cross-Region Replication](#).

Resizing IDE type boot volumes is not supported. This applies to both offline and online resizing. To work around this limitation, you can

Terminate the VM instance, ensuring that you keep the boot volume when you terminate the instance. Resize the boot volume that you have k

Create a clone of the boot volume, resize the boot volume clone, and then launch a new VM instance using the resized boot volume clone as

Caution

Before you resize a boot or block volume, you should create a backup of the volume. See [Creating a Backup of a Volume](#).

Note

After a volume has been resized, the first backup on the resized volume will be a full backup. See [Volume Backup Types](#) for more information. If you are using IAM Policy Required IAM Policy

To use Oracle Cloud Infrastructure, you must be granted security access in a policy by an administrator. This access is required whether

For administrators: The policy in [Let users launch compute instances](#) includes the ability to attach/detach existing block volumes. The po

If you're new to policies, see [Getting Started with Policies and Common Policies](#). For reference material about writing policies for insta

[Online Resizing of Block Volumes Using the Console](#)

With online resizing, you can expand the volume size without detaching the volume from an instance.

To resize a block volume attached to a Linux-based instance

To resize a block volume attached to a Windows instance

To resize a boot volume for a Linux-based Instance

Resizing a Boot Volume for a Windows Instance

Offline Resizing of Block Volumes Using the Console

With offline resizing, you detach the volume from an instance before you expand the volume size. Once the volume is resized and reattache

Considerations When Resizing an Offline Volume

Whenever you detach and reattach volumes, there are complexities and risks for both Linux-based and Windows-based instances. This applies

When you reattach a volume to an instance after resizing, if you are not using consistent device paths, or the instance does not support

When you detach and then reattach an iSCSI-attached volume to an instance, the volume's IP address will increment.

Before you resize a volume, you should create a full backup of the volume.

To resize a block volume attached to a Linux-based instance

Detach the block volume, see [Detaching a Volume](#).

Open the navigation menu and click **Storage**. Under **Block Storage**, click **Block Volumes**.

In the **Block Volumes** list, click the block volume you want to resize.

Click **Edit Size or Performance**.

Specify the new size in **VOLUME SIZE (IN GB)**. You must specify a larger value than the block volume's current size.

Click **Save Changes**. This opens a dialog that lists the required steps to complete the volume resize. For offline resizing, you need to ex

Reattach the volume, see [Attaching a Block Volume to an Instance](#).

Extend the partition, see [Extending the Partition for a Block Volume](#).

Resizing a Boot Volume for a Windows Instance

Stop the instance, see [Stopping, Starting, or Restarting an Instance](#).

Detach the boot volume, see [Detaching a Boot Volume](#).

Open the navigation menu and click **Storage**. Under **Block Storage**, click **Block Volumes**. In the **Block Storage** menu on the sidebar, click **Boo**

In the **Boot Volumes** list, click the boot volume you want to resize.

Click **Edit Size or Performance**.

Specify the new size in **VOLUME SIZE (IN GB)**. You must specify a larger value than the block volume's current size.

Reattach the boot volume, see [Attaching a Boot Volume](#).

Restart the instance, see [Stopping, Starting, or Restarting an Instance](#).

Extend the partition, see [Extending the System Partition on a Windows-Based Image](#).

Resizing a Boot Volume for a Linux Instance

Stop the instance, see [Stopping, Starting, or Restarting an Instance](#).

Detach the boot volume, see [Detaching a Boot Volume](#).

Open the navigation menu and click **Storage**. Under **Block Storage**, click **Block Volumes**. In the **Block Storage** menu on the sidebar, click **Boo**

In the **Boot Volumes** list, click the boot volume you want to resize.

Click **Edit Size or Performance**.

Specify the new size in **VOLUME SIZE (IN GB)**. You must specify a larger value than the block volume's current size.

Attach the boot volume to a second instance as a data volume. See [Attaching a Block Volume to an Instance and Connecting to a Block Volum](#)

Extend the partition and grow the file system, see [Extending the Root Partition on a Linux-Based Image](#).

Reattach the boot volume, see [Attaching a Boot Volume](#).

Restart the instance, see [Stopping, Starting, or Restarting an Instance](#).