

Working with Block Volumes/intro to attaching a volume.txt

Attaching a Block Volume to an Instance

Attach a block volume to a compute instance to expand the available storage on the instance.

If you specify iSCSI as the volume attachment type, you must also connect and mount the volume from the instance for the volume to be used.

You can attach volumes to more than one instance at a time. For more information, see [Attaching a Volume to Multiple Instances](#). To prevent

Note

When you change the performance for a volume, the volume's lifecycle state changes to Provisioning while the settings are being updated.

Attaching Ultra High Performance Volumes

When you attach a volume configured for the Ultra High Performance level, the volume attachment must be enabled for multipath to optimize

The Block Volume service attempts to configure the attachment as multipath-enabled during the attachment process. After you attach a volume,

whether an attachment is enabled for multipath is determined based on the attached instance's shape, along with whether all the applicable p

For more information about the Ultra High Performance level, see [Block Volume Performance and Ultra High Performance](#).

Security Zones

Security Zones ensure that your cloud resources comply with Oracle security principles. If any operation on a resource in a security zone

The following security zone policies affect your ability to attach block volumes to compute instances.

All block volumes attached to a compute instance in a security zone must be in the same security zone.

Block volumes in a security zone can't be attached to a compute instance that is not in the same security zone.

Console

CLI

API

Open the navigation menu and click Compute. Under Compute, click Instances.

Under List scope, select the compartment that contains the instance.

In the Instances list, click the name of the instance that you want to attach a volume to.

In the Resources, click Attached block volumes.

Click Attach block volume.

Specify the volume that you want to attach to the instance.

To use the volume name, select Select volume and then select the volume from the Volume list. If the volume is in a different compartment

To specify the volume OCID, select Enter volume OCID and then enter the OCID into the Volume OCID field

If the instance supports consistent device paths, and the volume that you're attaching is not a boot volume, select a path from the Device

For more information about this feature and the instances that support it, see [Connecting to Volumes With Consistent Device Paths](#)

Select the volume attachment type. See [Volume Attachment Types](#).

For iSCSI volume attachments, optionally require CHAP credentials by selecting the Require CHAP credentials check box.

For iSCSI attachments to Linux-based instances, you can also optionally configure the attachment to use the Block Volume Management plugi

Important

To automatically connect to the volume, the Block Volume Management plugin must be enabled on the instance. See [Enabling the Block Volume](#)

For paravirtualized attachments on virtual machine (VM) instances, optionally encrypt data that is transferred between the instance and t

If you configured the volume to use an encryption key that you manage through the Vault service, this key is used for paravirtualized in-

Select the access type. For more information, see [Volume Access Types](#).

Click Attach.

When the volume's state is Attached, if the attachment type is Paravirtualized, the volume is connected automatically and you can use it.

On Linux-based instances, if you want to automatically mount volumes when the instance starts, you need to set some specific options in t