## Working with Block Volumes/configuring attahcments.txt

Configuring Attachments to Ultra High Performance Volumes

When you attach a volume configured for the Ultra High Performance level, to achieve the optimal performance, the volume attachment must

The Block Volume service attempts to enable the attachment for multipath when the volume is being attached. If not all of the prerequisit

To determine if the volume attachment is multipath-enabled, see Checking if a Volume Attachment is Multipath-Enabled.

This topic describes the prerequisites and the steps you can take to ensure the volume attachment is multipath-capable.

For iSCSI attachments, see Multipath-Enabled iSCSI Attachments. After you have confirmed that the iSCSI attachment is multipath-enabled,

For paravirtualized attachments, see Multipath-Enabled Paravirtualized Attachments.

Multipath-Enabled iSCSI Attachments

The section describes the prerequisites and steps required to configurre multipath-enabled iSCSI volume attachments.

Prerequisites

Following is a list of prerequisites and requirements for multipath-enabled iSCSI attachments.

The instance must be based on a supported shape. See Supported Compute Shapes for Multipath-Enabled iSCSI Attachments for more informatic

The instance must be running a supported image, see Supported Images for Multipath-Enabled iSCSI Attachments for more information.

The instance does not have another multipath-enabled attachment on the same instance.

The Block Volume Management plugin must be enabled for the instance. See Enabling the Block Volume Management Plugin for more information

The compute instance must have either a public IP address or a service gateway for the Block Volume Management plugin to be able to conne Permissions must be configured to allow the Block Volume Management plugin to report the iSCSI setup results for multipath—enabled iSCSI The volume attachment must be configured to use a consistent device path. See Connecting to Volumes With Consistent Device Paths for more

Important

You can use oci-utils or oci-iscsi-config when configuring and working with iSCSI attached volumes, however you should ensure that you do

Supported Images for Multipath-Enabled iSCSI Attachments

For multipath—enabled attachments, the attached instance must be running a Linux-based image.

Note

Multipath-enabled attachments are not supported for Windows instances or Oracle Autonomous Linux instances. Required Custom Image Configuration to Support Multipath-Enabled iSCSI Attachments

For a custom image to support multipath-enabled iSCSI attachments, the Unbreakable Enterprise Kernel (UEK) version must be UEK6U1 or high

After you have verified that the custom image UEK version is one that supports multipath-enabled attachments, you need to update the Stor

Supported Compute Shapes for Multipath-Enabled iSCSI Attachments
This section identifies the Compute shapes that support multipath-enabled iSCSI attachments. For more details, such as performance charac

VM Shapes

Current VM shapes configured for 16 cores or more support multipath-enabled attachments. See VM Shapes for iSCSI-attached Volumes for per

Bare Metal Shapes

All current bare metal shapes support multipath-enabled iSCSI attachments. See for more information Bare Metal Shapes for performance cha

Multipath-Enabled Paravirtualized Attachments

The section describes the prerequisites and steps required to configurre multipath-enabled paravirtualized volume attachments.

Prerequisites

Following is a list of prerequisites and requirements for multipath—enabled paravirtualized attachments.

The instance must be based on a supported shape. See Supported Compute Shapes for Multipath-Enabled Paravirtualized Attachments for more

The instance must be running a supported image, see Supported Images for Multipath-Enabled Paravirtualized Attachments for more informati

The instance does not have another multipath-enabled attachment on the same instance.

Supported Images for Multipath-Enabled Paravirtualized Attachments

For multipath-enabled attachments, the attached instance must be running one of the following images or a custom image based on one of th

Oracle Linux Ubuntu

Cent0S

Windows

Note

Multipath—enabled attachments are not supported for Oracle Autonomous Linux instances. Supported Compute Shapes for Multipath—Enabled Paravirtualized Attachments

Current VM shapes configured for 16 cores or more support multipath-enabled attachments. See VM Shapes for Paravirtualized Attached Volum

Note

Multipath-enabled attachments to bare metal instances only support iSCSI attachments.

For more details, such as performance characteristics and maximum number of attachments, see Performance Details for Instance Shapes.