

IBM Storage Driver for OpenStack  
Version 1.1.1

*Release Notes*



**First Edition (January 2013)**

This edition applies to version 1.1.1 of the IBM Storage Driver for OpenStack software package. Newer editions may be issued for the same product version in order to add missing information. The edition is reset to 'First Edition' for every new product version.

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## Overview

The IBM® Storage Driver for OpenStack is a software component that integrates with the OpenStack cloud environment and enables utilization of storage resources provided by the IBM XIV® Storage System.

After the driver is installed on the OpenStack Cinder (OpenStack Block Storage) nodes, XIV storage volumes can be allocated by the Cinder nodes to the Nova-compute nodes in the OpenStack cloud environment. Virtual machines on the Nova-compute nodes can then utilize these storage resources.

You can download the IBM Storage Driver for OpenStack software package at any time from the IBM Fix Central website ([www.ibm.com/support/fixcentral](http://www.ibm.com/support/fixcentral)).

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## Compatibility and requirements

This section specifies the compatibility and requirements of version 1.1.1 of the IBM Storage Driver for OpenStack.

### Supported storage systems

Version 1.1.0 of the IBM Storage Driver for OpenStack supports different microcode versions of the IBM XIV Storage System, as listed in the following table.

Storage system	Microcode version
IBM XIV Storage System	11.0.x
	11.1.x

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**Attention:** XIV storage systems can interconnect with the OpenStack cloud environment only over iSCSI connectivity. Fibre Channel (FC) connectivity is not supported.

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### Required software on the OpenStack nodes

The IBM Storage Driver requires the following software platforms on the OpenStack Cinder and Nova-compute nodes.

Software platform	Required on
Ubuntu Server version 12.04 or later, x64 edition	All OpenStack Cinder nodes
OpenStack Folsom release	<ul style="list-style-type: none"><li>All OpenStack Cinder nodes</li><li>All Nova-compute nodes</li></ul>

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**Important:**

- The IBM Storage Driver for OpenStack should be installed only on the Cinder nodes. For more information, refer to the installation guide.
  - Each Cinder node must reside on a controller node in order to enable the IBM Storage Driver functionality.
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## Change log

This section summarizes the changes made in different version releases of the IBM Storage Driver for OpenStack.

### Version 1.1.1 (January 2013)

Version 1.1.1 includes the following enhancements and fix.

Ticket ID	Description
NOVA-235459	<b>Enhancement:</b> XIV volume snapshot functions are now supported.
NOVA-253698	<b>Enhancement:</b> Unattended installation option is now available, allowing no user interaction during the installation. For more information, see the installation guide.
NOVA-251454	<b>Fixed:</b> Storage pools that contain capital letters are not recognized by the IBM Storage Driver.

### Version 1.1.0 (November 2012)

Version 1.1.0 of the IBM Storage Driver for OpenStack was the first product version, introducing support for the IBM XIV Storage System in the OpenStack cloud environment.

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## Known issues

This section details the known issues in version 1.1.1, along with possible workarounds (if workarounds are available).

Ticket ID	Description
NOVA-247919	Volumes that were manually renamed on the XIV storage system side cannot be used remotely from the OpenStack environment side, even if these volumes were created from the OpenStack environment side.  Currently there is no workaround for this limitation (NOVA-247919).

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## Related information and publications

For additional information about the IBM Storage Driver for OpenStack Nova, refer to the following information sources.

- IBM Storage Host Software Solutions Information Center ([publib.boulder.ibm.com/infocenter/strhosts/ic](http://publib.boulder.ibm.com/infocenter/strhosts/ic))
- IBM XIV Storage System Information Center ([publib.boulder.ibm.com/infocenter/ibmxiv/r2](http://publib.boulder.ibm.com/infocenter/ibmxiv/r2))
- OpenStack Block Storage (Cinder) reference page ([wiki.openstack.org/Cinder](http://wiki.openstack.org/Cinder))
- OpenStack Storage reference page ([www.openstack.org/software/openstack-storage](http://www.openstack.org/software/openstack-storage))
- OpenStack Documentation ([docs.openstack.org](http://docs.openstack.org))

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- IBM website ([ibm.com](http://ibm.com)<sup>®</sup>)
- IBM Support Portal website ([www.ibm.com/storage/support](http://www.ibm.com/storage/support))
- IBM Directory of Worldwide Contacts website ([www.ibm.com/planetwide](http://www.ibm.com/planetwide))





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