

## SnapScale RAINcloudOS Version 4.0.089 Release Announcement

May 2014

### Preface

This Product Information Bulletin announces the release of RAINcloudOS version 4.0.089 for all SnapScale™ clusters.

### Models Affected

RAINcloudOS Version 4.0.089 is supported as an upgrade for a SnapScale clusters running RAINcloudOS 3.3.023 or higher. This version replaces the released RAINcloudOS version 4.0.074.

### Upgrade Considerations

All systems running RAINcloudOS 3.3.023 or higher can be upgraded to RAINcloudOS 4.0.089. It is recommended that a system backup be completed prior to performing the upgrade.

### Downgrades are Not Supported

RAINcloudOS release downgrades are not supported.

### RAINcloudOS 4.0.089 Changes and Enhancements

In addition to the following issues, a number of bug fixes have been addressed in this RAINcloudOS update:

**Microsoft Office Documents** – Fixed an issue that prevented the saving of Microsoft Office documents to the SnapScale if SMB2 was enabled.

**Snapshots** – Fixed an issue where a newly created Snapshot may be deleted by the system.

**Split Bond Mode** – RAINcloudOS now provides a procedure that allows the client side network bond to be split such that the server will support two IP addresses, each on their own network interface. This feature provides the ability to support VMware multipath failover configurations. For details, refer to the *SnapScale RAINcloudOS 4.0 Split-Bond Configuration for VMware* technical bulletin available on the Overland Storage SnapScale support website.

## Previous RAINcloudOS 4.0 Changes and Enhancements

The SnapScale 4.0 release provides a significant upgrade to the RAINcloudOS. It has several significant new features along with a number of bug fixes. This software release supports both the X2 and X4 hardware platforms.

- **iSCSI Support** – ROS 4.0 now offers block level storage with support for iSCSI. iSCSI support in ROS has the capacity to serve up any iSCSI target from any node in the cluster. Each target will be served from only one node in the cluster with the target following the IP address of that node in case of failover. ROS iSCSI provides the following sub-features and compatibilities:
  - **iSNS Support** – ROS can register iSCSI targets with an iSNS server.
  - **MPIO** – Support for multiple access paths via the bonded interface on the node.
  - **COW Snapshots** – Snapshots can be dynamically created and deleted using VSS/VDS.
- **User and Group Quotas** – User and group quotas are supported in ROS as of the 4.0 release. We support a number of different types of quota restrictions including user and group limits on a per volume basis. Group quotas are only tracked and enforced for NIS groups. We also support a file count limit again on a per volume basis. The default quota is unlimited. A default quota can be defined for each volume for users, groups or file counts.
- **SMB 2.0 and 2.1** – As of ROS 4.0 the Samba protocol stack has been upgraded to support SMB 2.0 and 2.1.
- **SNMP** – ROS 4.0 now offers the same level of SNMP support as SnapServer, with support for the Host Resources MIB (RFC 2790) and MIB-II (RFC 1213).
- **FTP/FTPS support** – ROS now supports access to the cluster file system using the FTP protocol.
- **File System Data Striping** – This version of ROS distributes large files across multiple peer sets, which spreads the data evenly across multiple hard drives. Since large files no longer land on a single peer set (drive), ROS 4.0 has eliminated the previous file size limitation. Distributing file data across multiple hard drives removes the single hard drive speed limitation resulting in improved performance.

## Third-Party Product Support

**NOTE:** NOTE: Refer to the [Compatibility Guide on the Overland Storage Support website](#) for a list of compatible operating systems, software, and hardware.

- **Windows Hardware Certification** – Microsoft Windows Hardware Certification has been completed for the following iSCSI targets:
  - Windows Server 2012
  - Windows Server 2008 R2 x64
  - Windows Server 2008 x64 & x86
  - Windows Server 2003 R2 x64 & x86
- **VMware iSCSI and NFS Certification** – VMware ESXi 5.1 certification for iSCSI (software initiators) has been completed. You can see a complete listing of the certification testing completed on the [VMware Compatibility Guide web page](#).

## Downloads

RAINcloudOS 4.0.089 is available for download for supported SnapScale users with active software entitlement agreements. Go to the Overland Storage Customer Support Portal by navigating to the Manage Products page.

<http://docs.overlandstorage.com/snapscale>

Additional documentation on how to operate, configure, and support your SnapScale is also available on this site.