

7 Oct., 14

Riverbed Granite/SteelFusion - Notes with Nimble Storage

It is branch infrastructure device that can provide data centralization, Networking, Snapshot, Recovery and VM hosts.

Components Needed:

Centralized Infrastructure: Nimble Storage, SteelHead Appliances, Granite/SteelFusion

Branch Infrastructure: SteelHead Appliances, Granite/SteelFusion

Note: Granite/SteelFusion can be rolled out as a VM or as a VM inside SteelHead Appliances itself (EX Series)

Riverbed Granite/SteelFusion Integration

By default Granite core requests for finding iSCSI discovery portal. Use the Nimble iSCSI discovery portal address. Presenting a LUN to granite from Nimble needs Granite Core IQN to be added to Initiator group with LUN assigned to it.

Current version of Granite/SteelFusion (3.0.0a) and Nimble Storage (OS 2.1.5) does not support “SCSI Reservations” and hence disable the SCSI Reservations manually for each Nimble Device presented.

(Command line below)

The screenshot shows the Nimble Storage management interface. At the top, there is a breadcrumb navigation showing the IP address 192.168.100.90, the port 3260, and the status Connected. Below this, there are two tabs: 'Status/Settings' and 'Offline LUNs'. The 'Status/Settings' tab is active and displays the following configuration:

- Portal Status: Connected
- MPIO Portals: 192.168.100.90:3260 (with a 'Rescan for Portals' button)
- Port: 3260
- Authentication: None
- Buttons: 'Add Portal' and 'Update iSCSI Portal'

Below the configuration, there is a 'Targets:' section with an 'Add a Target' button. A table lists the current target:

Target	Status	Remove
iqn.2007-11.com.nimblestorage:steelfusiontest1-v255c4bcd3bab46f.00000057.f6e6ffa1	Connected	[Remove]

SteelFusion/Granite Core device - Fixing the SCSI Reservation Issue

Type the following command via the CLI

- **storage lun modify alias Nimble_Test1 scsi-res disable**
 - Nimble_Test1 is the test LUN device from Nimble. Change the LUN name accordingly.

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From Riverbed Support Knowledge Base with reference to Nimble Storage

ISSUE

Granite Core degraded iSCSI connection status with Nimble storage. LUN is working and online. Status as shown below:

Connection Status: No iSCSI path was found for this LUN or all paths are disconnected for this LUN

Accessibility: No Edge Initiators configured

The screenshot displays the Nimble Storage management console. At the top, there is a table with columns for LUN, Type, and Status. The LUN 'ATCHISON' is listed with Type 'iSCSI' and Status 'Degraded'. Below the table, the 'Details' tab is selected, showing a 'LUN is Online' indicator and 'Offline'/'Online' buttons. A red box highlights the 'Connection Status' and 'Accessibility' fields, which contain the error messages mentioned in the text. Other details include LUN Alias, Snapshot Status, and various serial and target information.

LUN	Type	Status
ATCHISON (ed59dcbbb6e3319d6c9ce900e4d30485)	iSCSI	Degraded

Details | Edge Mapping | Failover | MPIO | Snapshots | Pin/Prepop | Branch Recovery

LUN is **Online** | Offline | Online | Update Alias

LUN Alias: ATCHISON

Connection Status: No iSCSI path was found for this LUN or all paths are disconnected for this LUN

Accessibility: No Edge Initiators configured

Snapshot Status: This LUN is not configured for taking Snapshots

Locally Assigned LUN Serial: ed59dcbbb6e3319d6c9ce900e4d30485

Origin LUN Serial: ed59dcbbb6e3319d6c9ce900e4d30485

Origin Portal: 10.1.14.16, 10.1.14.17, 10.1.14.18

Origin Target: iqn.2007-11.com.nimblestorage:atc-steelfusion-v0ed989538bdd5ab7.00000030.8504d3e4

Size: 500 GB

LUN I/O Report: [Click here](#)

SOLUTION

The above issue is only status reporting Bug # 193659 and can be safely ignored. LUN operation should be working perfectly. (at the time of writing this KB, Granite core version is 3.0.0 and this bug seen in this version)

Details:

Nimble storage doesn't support SCSI3 reservations. To work around this, SCSI reservation requirement for LUNs is disabled on core. The above bug shows up when reservations are disabled on core. This means the above issue will be seen on any backend storage that doesn't support reservations and/or when reservations are disabled on core.