

DataDirectTM

NETWORKS



EXAScalerTM
GRIDScalerTM
NAS Scaler
DirectMon[®]

Solution Upgrades Resolve Shellshock Bug

Technical Support Bulletin

Revision A2
4 November 2014

1.0 Issue Overview

1.1 Security Issue

The [NIST National Vulnerability Center](#) recently published information about a security vulnerability in the GNU Bourne Again Shell (BASH). Dubbed “Shellshock,” this bug exploits the BASH shell in Linux installations and can be used by hackers to take control of systems remotely. Most DDN products, but not all, are exposed to this vulnerability.

1.2 Affected Systems

The following DDN[®] products **are** affected by the Shellshock BASH bug:

- SFA[™] OS and the storage appliances that run it (S2A6620[™], SFA7700[™], SFA10K[™], SFA12K[™])
- WOS[®] Core and the storage appliances that run it (WOS1600[™], WOS6000[™], WOS7000[™])
- EXAScaler, GRIDScaler, NAS Scaler, WOS Access, WOS Access S3, and DirectMon

The following DDN products **are not** affected by Shellshock:

- S2A[™] DirectOS and the storage appliances that run it (S2A9900[™], S2A9700[™], S2A9550[™])
- EF3015[®] servers (DotHill)
- NAS Access (also known as GRID NAS)
- WOS Bridge (indirect only, through GRIDScaler and WOS Core)

DDN resells or sources certain network products and components from Brocade[®], Mellanox[®], and Dell[™]. Some of these products may be affected by the Shellshock bug. Customers should contact these manufacturers directly to obtain the most current information about potential vulnerabilities and available patches or firmware upgrades.

1.3 Statement of Direction

DDN is addressing the Shellshock bug throughout its current product lineup with a combination of new product releases and patches to recently installed software or firmware. All fixes are slated for general availability early in the third quarter of 2014.

2.0 Resolutions for File System Solutions

2.1 EXAScaler 2.1.1

EXAScaler is DDN’s clustered storage solution for high-performance computing (HPC), incorporating the open-source Lustre[®] file system and DDN’s SFA[®] storage hardware. EXAScaler 2.1.1, a new release available now, resolves the Shellshock BASH bug.

DDN ***strongly recommends*** that all EXAScaler 2.1.0 installations upgrade to the new release. Installations running earlier versions of EXAScaler on compatible hardware are also strongly advised to migrate to EXAScaler 2.1.1. (Note that EXAScaler 2.1.1 is not supported on S2A6620 platforms.)

Customers running EXAScaler 2.0.0, 2.0.1, or 2.0.2, and who cannot upgrade to EXAScaler 2.1.1 for business reasons, should install the EXAScaler 2.0.3 patch release to address the Shellshock vulnerability. This patch is also available now.

EXAScaler 1.5.x and 1.6.x installations that cannot upgrade to EXAScaler 2.1.1 should patch the BASH shell directly. The correct Shellshock patch for your Linux environment can be downloaded from CentOS. See <http://wiki.centos.org/Security/Shellshock> for more information.

ALERT Upgrading to EXAScaler 2.1.1, or applying the relevant patch, is **STRONGLY RECOMMENDED** for all EXAScaler installations.

2.2 GRIDScaler 2.2.3

GRIDScaler is DDN's parallel storage solution for high-performance, data-intensive enterprise applications, incorporating the IBM® GPFS™ file system with DDN's SFA storage hardware. GRIDScaler 2.2.3, a new release available now, addresses the Shellshock BASH bug.

DDN ***strongly recommends*** that all GRIDScaler 2.2.0, 2.2.1, and 2.2.2 installations upgrade to the new release. Installations running earlier versions on compatible hardware are also advised to migrate to GRIDScaler 2.2.3. (Note that GRIDScaler 2.2.3 is not supported on S2A6620 platforms.)

GRIDScaler 1.6.x and 2.0.x installations that cannot upgrade to GRIDScaler 2.2.3 should patch the BASH shell directly. The correct Shellshock patch can be downloaded from CentOS or RedHat, as appropriate for your Linux environment. More information is available at the following Internet locations:

- **CentOS** — <http://wiki.centos.org/Security/Shellshock>
- **Red Hat**® — <https://access.redhat.com/solutions/1207723>

ALERT Upgrading to GRIDScaler 2.2.3, or applying the relevant patch, is **STRONGLY RECOMMENDED** for all GRIDScaler installations.

2.3 NAS Scaler

NAS Scaler, DDN's shared storage solution for large networks based on the Symantec® FileStore file system, is no longer sold. However, customers with support contracts continue to be supported by DDN for their hardware and Linux environment. DDN

encourages NAS Scaler customers concerned about the Shellshock vulnerability to contact DDN Technical Support for assistance.

3.0 Resolutions for DirectMon Storage Management

3.1 DirectMon 2.2

DirectMon 2.2 is a future release of DDN's storage management solution that addresses the Shellshock BASH bug, in addition to other enhancements. DDN expects DirectMon 2.2 to be generally available in the fourth quarter of 2014.

3.2 Interim Fixes to DirectMon

DirectMon 2.0.5 and 2.1.1 installations that cannot wait for DirectMon 2.2 should contact DDN Technical Support to obtain the correct BASH shell patch and installation instructions. Request the RPM file `bash-4.1.2-15.el6_5.2.x86_64.rpm`.

Installations running DirectMon versions earlier than 2.0.5, and which cannot wait for DirectMon 2.2, should first upgrade to DirectMon 2.1.1, then install the BASH shell patch as described for DirectMon 2.1.1 above. Contact DDN Technical Support for assistance.

4.0 Contacting DDN Technical Support

Please feel free to contact DDN Technical Support for download directions and installation guidance concerning Shellshock upgrades and patches for EXAScaler, GRIDScaler, NAS Scaler, and DirectMon. Support can be reached at any time by phone, by email, or on the web.

Telephone

DDN Support Worldwide Directory <http://www.ddn.com/support/contact-support>

Email

Support Email support@ddn.com

Web

Support Portal <https://portal.ddnsupport.com>
Portal Assistance webportal.support@ddn.com

Bulletins

Support Bulletins <http://www.ddn.com/support/technical-support-bulletins>
Bulletin Subscription Requests support-tsb@ddn.com