

XSEDE Operations Deployment Plan: GSI-OpenSSH 5.7

Update GSI-OpenSSH server software: SDIACT-152

10/22/15

Version 1.2

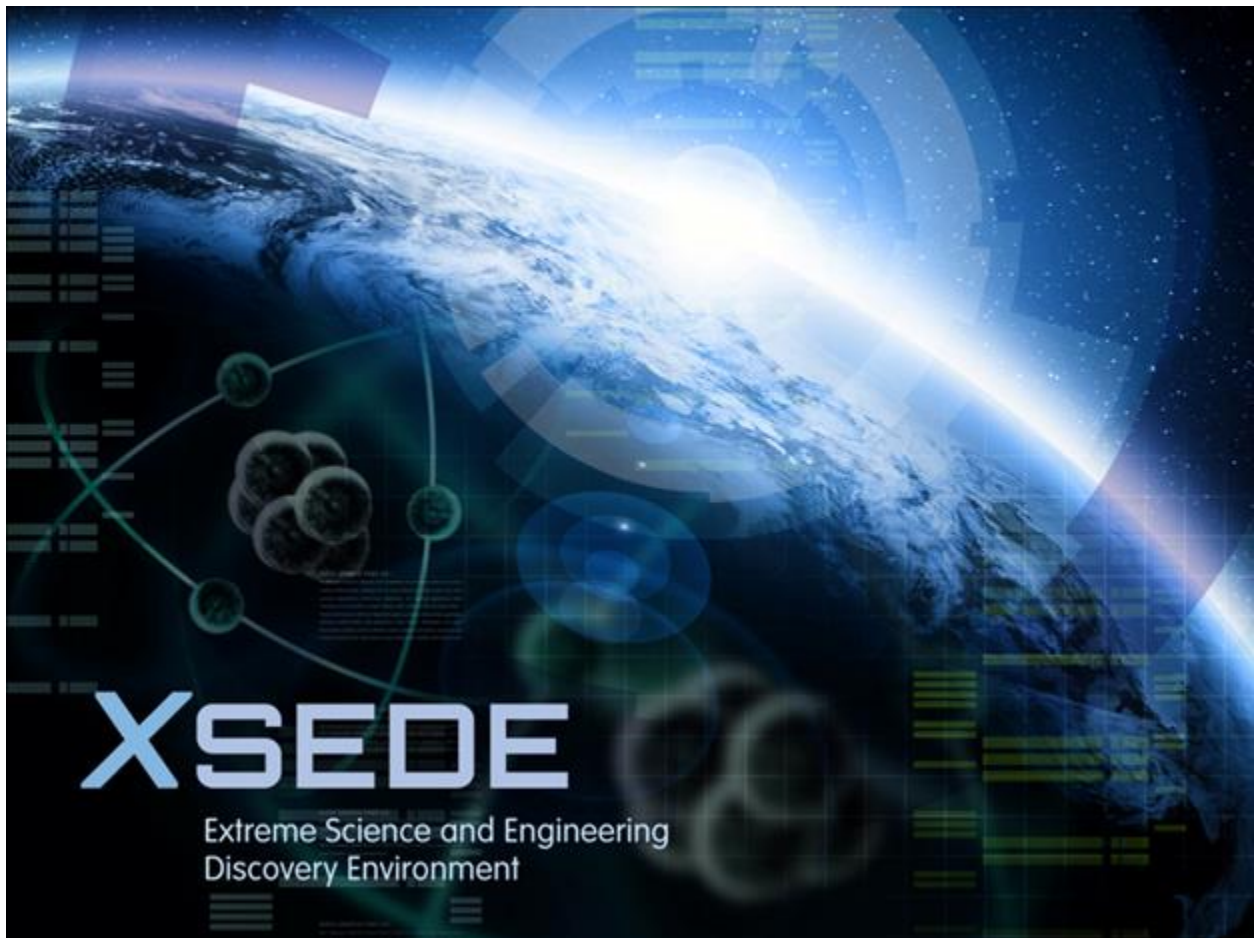


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A. Document History

Relevant Sections	Version	Date	Changes	Author
Entire Document	1.0	2014-12-18	Initial draft by SD&I	Shava Smallen
F.1	1.1	2015-08-17	Added note about Globus client.	Shava Smallen
C, D.1 , F and G	1.2	2015-10-22	Added note regarding absence of NERSC mods in this release, edited schedule and resources to include SSO Hub and XUP, added links to installation document and XUP documentation.	Tabitha Samuel

B. Document Scope

This document outlines the XSEDE Operations deployment plan for an upgrade to the GSI-OpenSSH servers and clients at SPs.

C. Overview

GSI-OpenSSH (<http://grid.ncsa.illinois.edu/ssh/>) is a modified version of OpenSSH that adds support for GSI authentication and credential forwarding (delegation), providing a single sign-on remote login and file transfer service. GSI-OpenSSH also includes High Performance Networking (HPN - <http://www.psc.edu/networking/projects/hpn-ssh/>) updates for OpenSSH from the Pittsburgh Supercomputing Center. SDIACT-152 delivers and update to version 5.7 of GSI-OpenSSH server and client at SPs. Please note that this activity does not deliver GSI-OpenSSH packaged with NERSC mods. There will be an activity that releases this software with NERSC mods added in Q12016.

D. Resources

D.1. Human Resources

The upgrade of GSI-OpenSSH requires an update to the GFFS Central containers. The following human resources have been identified:

Resource	SP Site/XSEDE Group/Other Resource
Staff	NICS (Darter)
Staff	OSG
Staff	PSC (Greenfield, Bridges)
Staff	TACC (Stampede, Maverick, Wrangler)
Staff	SDSC (Gordon, Comet)
Staff	Indiana (Mason)
Staff	LSU (SuperMIC)
Staff	SSO Hub
UserPortal Staff	XSEDE User Services

D.2. Budget

No additional resources are required to deploy this update to GSI-OpenSSH.

E. Coordination and Communication

XSEDE users make frequent use of the GSI-OpenSSH servers at the SP sites (e.g., via login.xsede.org or Science Gateway portal). Please update this service accordingly to minimize interruption to users.

F. Deployment

F.1. XSEDE Service Providers

SPs will need to update both their GSI-OpenSSH clients and servers using the installation instructions at <http://software.xsede.org/production/gsissh/XSEDE-GSI-OpenSSH-install.html> and update their version information in their login kit registration.

Important Note: An update to the r4 release of the XSEDE Globus client package is required for SPs installing the GSI-OpenSSH server on a machine *only* where the XSEDE Globus client package is already installed. Instructions are included in the install guide above.

F.1.1. Inca

No monitoring changes required for Inca tests.

F.2. XSEDE User Services

User documentation on the XSEDE User Portal will need to be updated. Updated documents for reference are available at <http://software.xsede.org/production/gsi-openssh-server/userdocs.txt>

G. Schedule

The schedule for deployment involves an upgrade to the GFFS central containers.

Task #	Task	Start Date	End Date	Resource
1.	Upgrade GSI-OpenSSH server and client.	10/30/15	1/25/15	SPs
2.	Upgrade GSI-OpenSSH on SSO Hub	10/30/15	1/25/15	XSEDE Central Services
3.	Update XSEDE User Portal documentation	10/30/15	1/25/15	XSEDE User Services
4.	Deployment complete		1/25/15	