

XSEDE Operations Deployment Plan: GSI-OpenSSH 7.1

GSI-OpenSSH fixes and enhancements: SDIACT-202

18 October 2016

Version 1.0

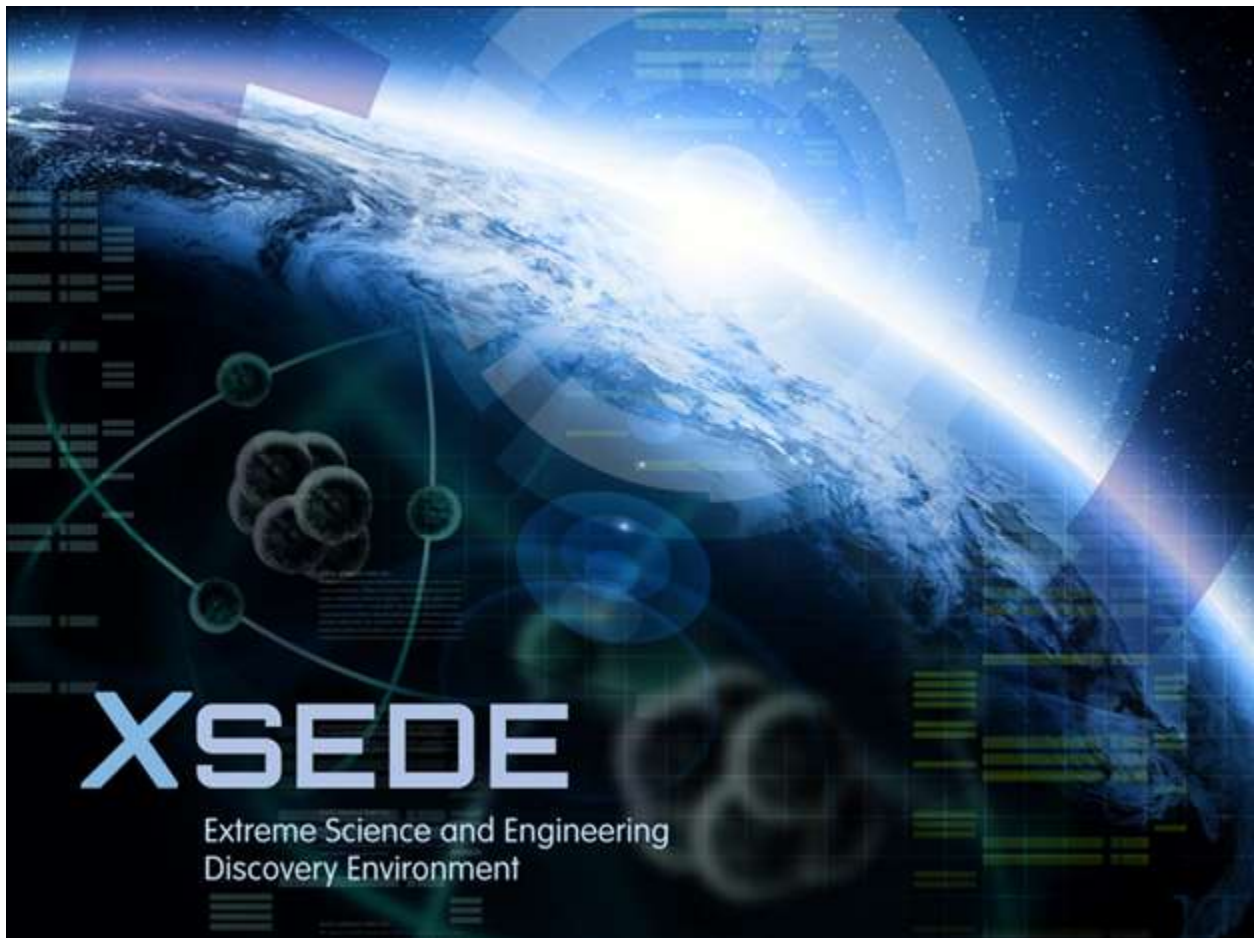


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N/A

A. Document History

Relevant Sections	Version	Date	Changes	Author
Entire Document	1.0	2016-05-10	Initial draft by SD&I	Shava Smallen
	1.0	10/18/2016	Updates	V. Hazlewood

B. Document Scope

This document outlines the XSEDE Operations deployment plan for an upgrade to the GSI-OpenSSH version 7.1p2f-9 servers and clients at SPs.

C. Overview

SDIACT-202 delivers and update to version 7.1p2f-9 of GSI-OpenSSH server and client at SPs. 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 and “Instrumented SSHD”, formerly known as the “NERSC mod” which is a version of OpenSSH designed for high security installations where it is desirable to audit user activity (<https://github.com/set-element/openssh-hpn-isshd>).

The XSEDE activity information is available at <https://software.xsede.org/jira/view/sdiact-202> and provides pointers to all the relevant design documents, test plans, test results and other documents used in the XSEDE engineering process for SDIACT-202.

D. Resources

D.1. Human Resources

The upgrade of GSI-OpenSSH requires an update to the GSI OpenSSH software at SPs. The following human resources have been identified:

Resource	SP Site/XSEDE Group/Other Resource
Staff	OSG
Staff	PSC (Bridges)
Staff	TACC (Stampede, Wrangler)
Staff	SDSC (Gordon, Comet)
Staff	Indiana (Jetstream) as necessary
Staff	Stanford (XStream)
Staff	LSU (SuperMIC)

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 their campus systems, login.xsede.org or a Science Gateway portal). Update to this service is requested by all SPs.

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/gsi-openssh-server/latest/XSEDE-GSI-OpenSSH-install.html> and update their version information in the information services using the instructions under “XSEDE GSI OpenSSH Service Availability Publishing”.

F.1.1. Inca

No monitoring changes required for Inca tests.

F.2. XSEDE User Services

No user doc changes required.

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.	10/18/2016	1/9/2016	All
2.	Deployment complete		1/9/2017	