

XSEDE Deployment Plan: Fix and enhance IPF software publishing (XCI-143)

2018-06-27

Version 1.1

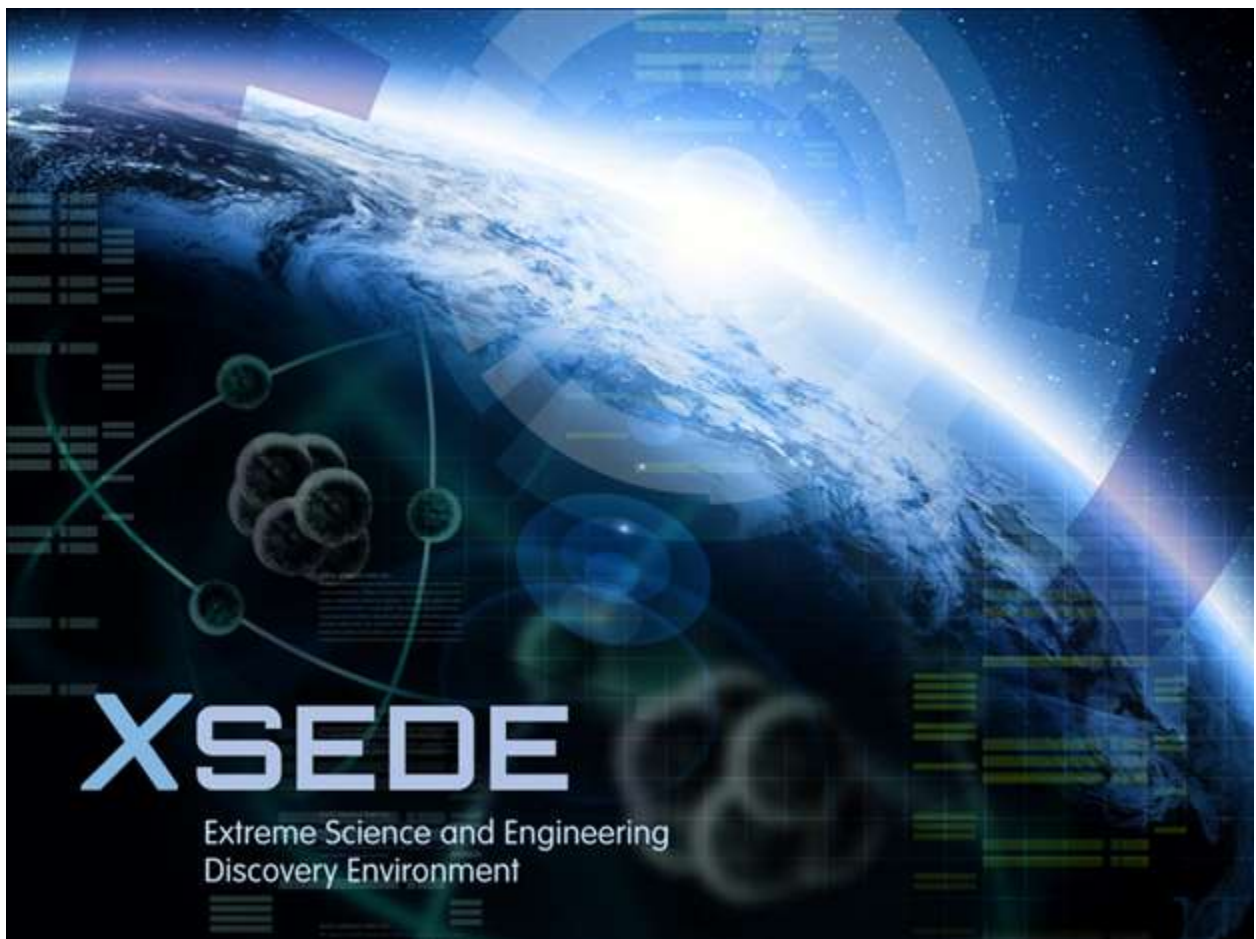


Table of Contents

A. Document History	4
B. Document Scope	5
C. Overview	6
D. Resources	6
E. Coordination and Communication	7
F. Deployment	7
G. Schedule	8

List of Figures

N/A

A. Document History

Relevant Sections	Version	Date	Changes	Author	
Entire Document	1.0	2018-02-22	Initial draft based on XCI-21 deployment plan	Shava Smallen	
Review/update Document	Entire	1.1	2018-06-27	Review/update all	V. Hazlewood

B. Document Scope

This document is the XSEDE Operations deployment plan for an incremental fix/enhancement of IPF software on SP resources.

C. Overview

The Information Publishing Framework (IPF) is used by XSEDE Service Providers to publish dynamic software and services availability information. XCI-143 delivers an enhanced IPF that 1) publishes to new information servers, 2) has an improved ipf_configure_xseede script, 3) looks for module-what is default: <yes|no> and publish it as a GLUE2 extension, 4) enables SPs to publish software/service support contact information, 5) publishes itself into information services, and 6) publishes GPU information when provided by SLURM.

D. Resources

D.1. Human Resources

The deployment of IPF requires installation at each of the SPs. The following human resources have been identified:

Resource	SP Site/XSEDE Group/Other Resource
Staff	OSG
Staff	PSC (Bridges, Bridges Large, Bridges GPU, Pylon*)
Staff	TACC (Stampede2, Jetstream*, Wrangler*, Ranch)
Staff	SDSC (Comet, Comet GPU, Data Oasis*)
Staff	Indiana (Jetstream*)
Staff	LSU (SuperMIC)
Staff	Stanford (Xstream)
Staff	UTK-NICS (ACF - unallocated)
Staff	Various unallocated SPs participating in XSEDE Federation

* - review if applicable

D.2. Budget

XCI will continue to operate the messaging service on XSEDE's Information Server machines, the

new GLUE 2.0 information services warehouse, the components that store published information in the warehouse, and the new RESTful interfaces to the information services warehouse. Service Providers already provide service nodes on their systems for the IPF software to interface with the site compute resources. No additional resources are required.

E. Coordination and Communication

No coordination with other XSEDE components required.

F. Deployment

F.1.XSEDE Enterprise Services

F.1.1. XSEDE Messaging Service

This is a [RabbitMQ](#) XSEDE Enterprise service deployed and operated by XCI. No changes needed.

F.1.2. Information Services Warehouse

This is a [RabbitMQ](#) XSEDE Enterprise service deployed and operated by XCI. No changes needed

F.1.3. Nagios

Host test for info.xsede.org should be cleared -- DNS purposely changed and can be changed at any time.

Host test for info1.dyn.xsede.org should be changed to infopub.xsede.org.

AMQP-info test should be changed from info1.dyn.xsede.org to infopub.xsede.org.

Failures should be sent to info-serv-admin@xsede.org.

F.1.4. Inca

No changes needed.

F.2.XSEDE Service Providers

Service providers will need to install RPM packages via the XSEDE Production Yum repository. Please see instructions at

<http://software.xsede.org/production/ipf/ipf-xsede/latest/INSTALL.html>

Please see below for required workflows that need to be configured for your SP resource.

- Software Module workflow: all **Level 1, 2 and 3 SPs** that offer login and batch computing
- Network Services workflow: all **Level 1, 2, and 3 SPs** that operate login or GridFTP services
- Batch System workflow: all **Level 1, 2, and 3 SPs** that offer batch computing
- Batch Scheduler Job Event workflow: all **Level 1 and 2 SPs** that offer XSEDE allocated batch computing

Any issues during deployment should be reported to help@xsede.org.

After completing installation, please click below to rate the quality of the IPF software and your experience installing it.

<https://software.xsede.org/vote/ipf-1.4>

F.3.XSEDE User Services

This component does not deliver new or changed user documentation.

F.4.XSEDE Training

This component is not user facing and therefore doesn't need special training.

G. Schedule

The schedule for deployment involves installation and configuration of the {title} software and testing by the SPs.

Task #	Task	Start Date	End Date	Resource
1.	SPs install/upgrade/test ipf-xsede-1.4	7/9/18	8/30/18	SP admins
2.	SPs make production ipf-xsede	8/31/18	8/31/18	SP admins
	deployment complete		9/3/18	