EMI Componets Installation And Configuration

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- EMI site:

  http://www.eu-emi.eu/

  Middleware

  Products

  Releases

EMI INFSO-RI-261611

- EMI 2 Generic Installation and Configuration Guide:

  https://twiki.cern.ch/twiki/bin/view/EMI/GenericInstallationConfigurationEMI2

Supported OSes

- ## All EMI components

  SL5/x86_64

  SL6/x86_64

  fully supported with EPEL as repository for externals.

- ## Some components

  debian

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3 Main steps

- EMI components installation and configuration requires 3 main steps:

1. Repository configuration

2. Package/Metapackage installation

3. Component configuration

- Other details (syncrinization, SELINUX, cron and logrotate, host certificate).

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- ## Disable DAG repository (if present):

rm /etc/yum.repos.d/dag.repo

Or

mv /etc/yum.repos.d/dag.repo \

/etc/yum.repos.d/dag.repo.removed

and

yum clean all

Repository configuration: EPEL

- Enable EPEL repository:

  SL5:

    http://download.fedoraproject.org/pub/epel/5/x86_64/

- SL6:

    http://www.nic.funet.fi/pub/mirrors/fedora.redhat.com/pub/epel/6/x86_64/

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- Yum-protectbase plugin allows certain repositories to be protected. Packages in the protected repositories can't be overridden by packages in non-protected repositories even if the non-protected repo has a later version.

- Its installation is warmly suggested.

  yum install yum-protectbase

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Repository configuration: CA

https://wiki.egi.eu/wiki/EGI_IGTF_Release

wget \

http://repository.egi.eu/sw/production/cas/1/current/repo-files/EGI-trustanchors.repo \

-O /etc/yum.repos.d/EGI-trustanchors.repo

All nodes except UI, WN and BDII require the CA certificates to be installed.

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Install EMI 2 repositories on a fresh node, without EMI middleware:

- SL5/x86_64:

  rpm -ivh \
  http://emisoft.web.cern.ch/emisoft/dist/EMI/2/sl5/x86_64/base/emi-release-2.0.0-1.sl5.noarch.rpm

- SL6/x86_64:

  rpm -ivh
  http://emisoft.web.cern.ch/emisoft/dist/EMI/2/sl6/x86_64/base/emi-release-2.0.0-1.sl6.noarch.rpm

- Debian:

  wget
  http://emisoft.web.cern.ch/emisoft/dist/EMI/2/debian/dists/squeeze/main/binary-amd64/emi-release_2.0.0-1.deb6.1_all.deb

  dpkg -i emi-release_2.0.0-1.deb6.1_all.deb

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Installation

- Installation is done with packages or meta-packages (names listed on guide). Examples:

- SL5/SL6:

  # yum install <meta-package/package name>

  # yum update

- Debian6:

  # apt-get install <meta-package/package name>

  # apt-get update

Configuration

- EMI services have different configration methods. Datails on guide.

- The most part of gLite services is configured using YAIM configuration tool

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Note on automatic updates

- STRONGLY RECOMMENDED NOT TO USE AUTOMATIC UPDATE PROCEDURE OF ANY KIND on the EMI middleware repositories.

- Sometimes middleware updates require non-trivial configuration changes or a reconfiguration of the service. This could involve service restarts, new configuration files, etc, which makes it difficult to ensure that automatic updates will not break a service. When an update has been released you should read the update information provided by each service and do the upgrade manually.

Details: Node synchronization

- A general requirement is that the nodes are synchronized.

- Possible solution use NTP protocol.

  Details on EMI 2 Generic Installation and Configuration Guide

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- Make sure

  cron

  logrotate

  are installed

  because many middleware components rely on the presence of them

Details: host certificates

- All nodes except UI, WN and BDII require the host certificate/key files to be installed.

- Contact your Certification Authority (CA) to understand how to obtain a host certificate.

- Installation:

  /etc/grid-security/hostcert.pem ;

  chown 600 /etc/grid-security/hostcert.pem

  /etc/grid-securyty/hostkey.pem ;

  chown 400 /etc/grid-securyty/hostkey.pem

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Questions?

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