

EMI

Service Reference Card

ARC GRIDFTP SERVER

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Abstract: ARC gridftp server EMI component is a custom implementation of GridFTP server

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- Functional description: Provision of simple GridFTP based storage service
- Daemons running:
 - gridftpd
- Init scripts and options (start—stop—restart—...):
 - gridftpd - starts gridftpd daemon
- Configuration files location with example or template:
 - /etc/arc.conf - default location of configuration file
 - Examples of configuration options can be found in template at <http://svn.nordugrid.org/trac/nordugrid/browser/arc0/trunk/doc/arc.conf.template>
- Logfile locations (and management) and other useful audit information:
 - /var/log/gridftpd.log - default location of log file of gridftpd daemon
- Open ports:
 - GridFTP communication (gridftpd daemon) - listening on 2811 TCP, listening on range of TCP ports for data communication (configurable in configuration file), outgoing TCP connections from arbitrary ports.
- Possible unit test of the service: (not unit tests, but service functionality tests):
 - no specialized testing tools developed
 - Any GridFTP capable client can be used to access and modify served content.
- Where is service state held (and can it be rebuilt):
 - Service is stateless.
 - Content of served files is stored on filesystem. Their persistency is handled by filesystem itself.
- Cron jobs: none
- Security information
 - Access control Mechanism description (authentication and authorization): GSIFTP, TLS, VOMS, LCAS/LCMAPS, GACL
 - * Authentication is based on Subject Name of client's X.509 certificate and other attributes of credentials
 - * Authentication mapping (from Grid identity to local identity) happens through various options:
 - grid-mapfile
 - embedded configurable algorithms
 - LCMAPS
 - external generic executables
 - * Authorization happens through various options:

- grid-mapfile
- embedded configurable algorithms
- LCAS
- external generic executables
- How to block/ban a user:
 - * Revoke user's certificate
 - * Exclude user from grid-mapfile by changing configuration of nordugridmap
 - * Changing configuration of gridftp/a-rex to exclude specific user. Alternatively configuration can be crafted in a way to allow adding banned users to some local list dynamically
 - * Through external plugin - LCAS or generic one
- Network Usage: multiple incoming and outgoing connections, see section "Open ports"
- Firewall configuration: see section "Open ports". Support for NAT based firewalls.
- Security recommendations: be careful; as much as possible deploy services as a non-privileged user
- Security incompatibilities: undefined
- List of externals (packages are NOT maintained by Red Hat): none
- Other security relevant comments: see documentation
- Utility scripts: none
- Location of reference documentation for users: not applicable
- Location of reference documentation for administrators: <http://www.nordugrid.org/documents>