



Lemon Tutorial

FlatMon and OraMon servers

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<http://cern.ch/lemon>

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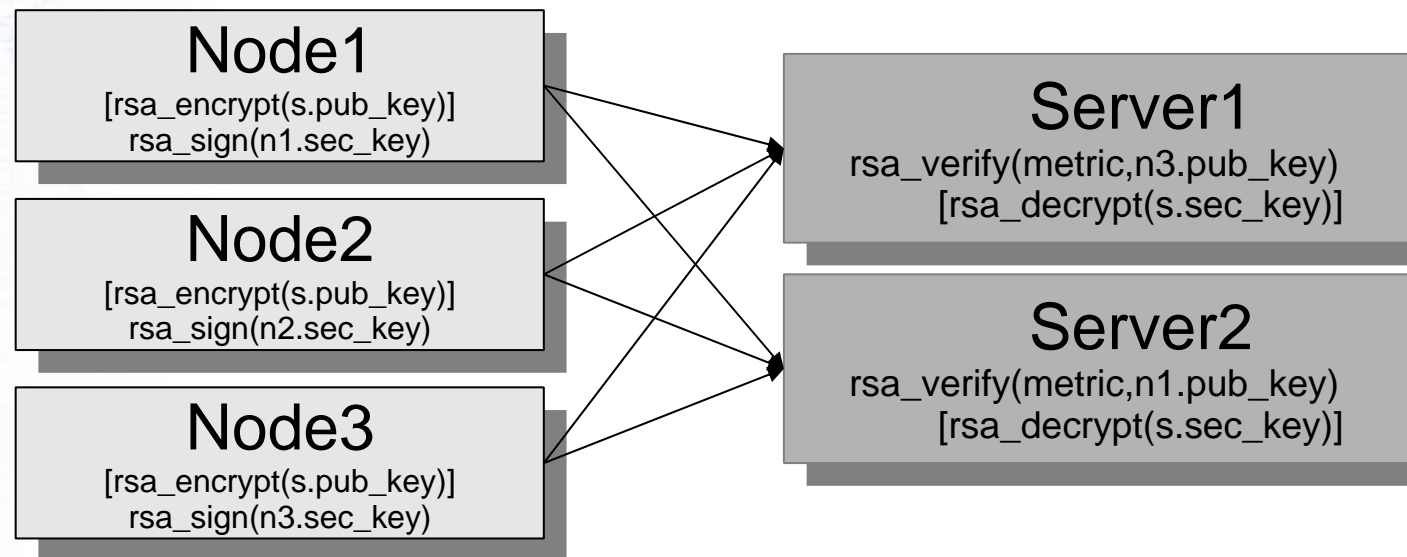


Authentication

- Flat File (FlatMon) and Oracle based (OraMon)
- Used for both **TCP** and **UDP** (stateless connections)
- Using **OpenSSL** libraries with public key methods to authenticate – **sign()** and **verify()** methods
- Support both RSA/SHA1,MD5, DSA/DSS1 algorithms with different key sizes (default = 1024bit)
- Fastest – RSA/SHA1
- X509 would provide too much overhead
- **Three levels:**
 - **0** – no authentication
 - **1** – authentication of signed packets, accepts also non-signed packets
 - **2** – full enforcement of authentication



Authentication - schema



s.pub_key – server's public key

n(x).sec_key – agent's secret key

n(x).public_key – agent's public key



Setup of FlatMon

Fast overview:

- Install server rpm
- Setup `/etc/lemon/server/edg-fmon-server.conf` file
- Setup `/etc/lemon/server/keys` directory with client keys
- Check authentication
- Check data arriving at server
- Check log files for problems



Setup of OraMon

Fast overview:

- Rpms installation (lemon-ora-admin, lemon-OraMon)
- DBA creation of schema (use adapted lemon_user.sql)
- Setting up schema for OraMon with lemon-ora.admin
- Configuring metadata information (/etc/oramon-server.conf)
- Configuring OraMon:
 - System settings with /etc/sysconfig/OraMon
 - Access settings with /etc/lemon/server/lemon-oramon-server.conf
- Checking the log file for problems
- Checking data with lemon-ora.retrieve
- Changing the metadata
- <http://lemon.web.cern.ch/lemon/doc/components/lemon-ora-admin/index.html>
- <http://lemon.web.cern.ch/lemon/doc/components/oramon/index.html>