COTS Installation Instructions

7.1 Prerequisites:

- The delivery tar file, **apache-1.3.29-ssl-modJkConf-v02.tar.gz**, has been placed in a staging directory accessible by the Data Pool machine.
- JRE 1.4.1 or later versions on the target Data Pool SUN machines. (It is needed for operation, but not for installation.)
- Tomcat 4.1.24 on the target Data Pool SUN machines. (It is needed for operation, but not for installation.)
- Estimated installation Time: 30 minutes for a novice operator.

7.2 Uninstall Instructions

None

7.3 Installation Instructions

The following instructions install Apache 1.3.29 with SSL at /usr/ecs/OPS/COTS/apache-1.3.29-ssl. They also install script, apache4-1.3.29-ssl_OPS, for start up and shut down.

Important: Install only in OPS mode on Data Pool machines listed below:

PVC: p2dps01

VATC: t1dps01

1. Unpack the delivered tar file as **root**:

   # cd /<*stagingdir*> ↵

   # gunzip –c apache-1.3.29-ssl-modJkConf-v02.tar.gz | tar xvf – ↵

This will create two subdirectories called “install/apache-1.3.29-ssl” and “install/tomcat4-ssl-conf”.

The “install/apache-1.3.29-ssl” directory contains the following five files:

- apache-1.3.29-ssl.tar.gz. It is the tar file of Apache 1.3.29 with SSL.
- install_apache1.3.29-ssl.sh. It installs Apache 1.3.29 with SSL in /usr/ecs/OPS/COTS/apache-1.3.29-ssl. Also, it creates startup/shutdown script in /etc/init.d, and four soft links in rc0.d, rc1.d, rc2.d and rc3.d under /etc.
- rc.apache: It provides the information that install_apache1.3.29-ssl.sh requires.
- uninstall_apache1.3.29-ssl.sh. It removes apache 1.3.29-ssl, its startup/shutdown script, and the four soft links.

- uninstall_apache1.3.29.sh. It removes apache 1.3.29 from /usr/ecs/<MODE>/COTS/apache-1.3.29_datapool. It also removes its startup/shutdown script in /etc/init.d, and the four soft links in rc0.d, rc1.d, rc2.d and rc3.d under /etc.

The "install/ tomcat4-ssl-conf" directory contains the following three files:

- mod_jk_SSL.conf.p2dps01, which is for p2dps01 in PVC
- mod_jk_SSL.conf.t1mss06, which is for t1mss06 in VATC
- mod_jk_SSL.conf.t1dps01, which is for t1dps01 in VATC

2. Install apache 1.3.29 with SSL

 # cd install/apache-1.3.29-ssl↵

 # ./install_apache-1.3.29-ssl.sh ↵

This will install apache 1.3.29 with SSL under /usr/ecs/OPS/COTS/apache-1.3.29-ssl. Also, Apache startup/shutdown script, **apache-1.3.29-ssl_OPS**, will be installed in /etc/init.d. In addition, it will create the following four soft links to automatically shut down or start up the apache 1.3.29 with SSL when the system reboots:

- In /etc/rc0.d: K16apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS.
- In /etc/rc1.d: K16apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS.
- In /etc/rc2.d: K16apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS.
- In /etc/rc3.d: S50apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS.

3. Install mod_jk.conf.SSL in Tomcat 4.1.24:

 # cd install/tomcat4-ssl-conf ↵

- Install mod_jk_SSL.conf on p2dps01:

 # cp -p mod_jk_SSL.conf.p2dps01 /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/auto ↵

 # cd / usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/auto ↵

 # mv mod_jk_SSL.conf.p2dps01 mod_jk_SSL.conf ↵

- Install mod_jk_SSL.conf on t1dps01:

 # cp –p mod_jk_SSL.conf.t1dps01 /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/auto ↵

 # cd / usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/auto ↵

 # mv mod_jk_SSL.conf. t1dps01 mod_jk_SSL.conf ↵

4. Disable the apaches-1.3.29-ssl's auto start link:

Execute the following commands on p2dps01, and t1dps01:

 # cd /etc / rc3.d ↵

 # mv –f S50apache-1.3.29-ssl_OPS s50apache-1.3.29-ssl_OPS ↵

Undo it as below once the apache-1.3.29-ssl has been tested successfully in test modes:

 # cd /etc / rc3.d ↵

 # mv –f s50apache-1.3.29-ssl_OPS S50apache-1.3.29-ssl_OPS ↵

7.4 Custom Code Integration

None

7.5 Interrogation Checkout

1. Check the version of Apache:

 # /usr/ecs/<MODE>/COTS/apache-1.3.29_datapool/bin/httpd -v | grep version | cut –c24-30 ↵

The returned string should be "1.3.29". This verifies both the version and the installation path.

2. Check for the existence of the four soft links.

 # ls –l /etc/rc*d | grep apache-1.3.29 | cut –c55-123 ↵

It should return:

K16apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS

K16apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS

K16apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS

s50apache-1.3.29-ssl_OPS -> ../init.d/apache-1.3.29_datapool_OPS

3. Check the startup/shutdown script.

 # ls –lrt /etc/init.d ↵

You can see the following file:

apache-1.3.29_datapool_OPS

7.6 Back-Out Instructions

To remove apache 1.3.29 with SSL, run the following commands:

 # cd <*stagingdir*>/install/apache-1.3.29_datapool ↵

#./ uninstall_apache1.3.29-ssl.sh ↵

It deletes:

- Apache-1.3.29 and 2.0.48_datapool in /usr/ecs/OPS/COTS/.
- Apache4_datapool_OPS under /etc/init.d.
- The four links from rc0.d, rc1.d, rc2.d, and rc3.d under /etc. (See Section 7.3, step2.)

To remove mod_jk_SSL.conf.<*hosts*>, you need to manually delete it from p2dps01, , and t1dps01 as below:

 # cd /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/auto ↵

 # rm mod_jk_SSL.conf.<*hosts*> ↵