

Installation

Requirements

1. Operating System: Linux Red Hat 9.0.
2. Web Server: Tomcat 4.1.31. TA Manager's installation procedure will also install Tomcat.
3. Database Manager: MYSQL 4.1. It usually comes with Linux Operating System.
4. TA Manager must run on the same server as your soft switch's TFTP or HTTP server.

Procedure

1. Downloading InterEdge's TA Manager software.
 - a. Login in to your Linux server as **root**
 - b. Go to root directory. In the command line, do:

```
cd /
```
 - c. Download files **InterEdgeTAMgr-0.1.1.tgz** and **TAMgrInstall.sh** . In the command line do:

```
wget http://67.78.148.82/TAManager/InterEdgeTAMgr-0.1.1.tgz
```

```
wget http://67.78.148.82/TAManager/TAMgrInstall.sh
```
 - d. Make sure both files are in the directory. In the command line, do:

```
ls -l InterEdgeTAMgr-0.1.1.tgz TAMgrInstall.sh
```
2. Configure Tomcat
 - a. Edit file **/etc/rc.d/rc.local**
 - b. At the end of the file add the following lines:

```
JAVA_HOME=/opt/InterEdgeTAMgr/SUNWappserver/jdk
```

```
export JAVA_HOME
```

```
sh /opt/InterEdgeTAMgr/jakarta-tomcat-4.1.31/bin/shutdown.sh
```

```
sh /opt/InterEdgeTAMgr/jakarta-tomcat-4.1.31/bin/startup.sh
```
 - c. Tomcat will run on port 8080. Please make sure this port is open in your system and that your firewall doesn't have any rule that will prevent any communication through this port.
3. Configure MYSQL
 - a. Check if MYSQL is already installed in your system. Run

mysql -V

If MYSQL was installed you will get a message with the version information. If that's the case go to **step 4**.

Otherwise:

- b. Download the server and client programs from <http://dev.mysql.com/downloads/mysql/4.1.html> _ under Linux x86 RPM downloads.

- c. Install MYSQL. At the command line do:

```
rpm -i MySQL-server-4.1.14-0.i386.rpm
```

```
rpm -i MySQL-client-4.1.14-0.i386.rpm
```

4. Run TA Manager's installation script. In the command line, do:

```
sh TAMgrInstall.sh 0.1.1
```

After all files are extracted from **InterEdgeTAMgr-0.1.1.tgz** file. Make sure the directory **/opt/InterEdgeTAMgr** was created. In the command line, do:

```
ls -l /opt/InterEdgeTAMgr
```

You should get some similar to:

```
total 15712  
drwxr-xr-x  2 503  root      4096 Sep 15 18:51 DBSetup  
drwxr-xr-x 11 503  root      4096 Sep 15 17:35 jakarta-tomcat-4.1.31  
-rwxr-xr-x  1 503  root    16055526 Sep 15 18:37 jre-1_5_0_04-linux-i586-  
rpm.bin  
drwxr-xr-x 11 503  root      4096 Sep 15 17:47 SUNWappserver
```

5. Configure TA Manager

- a. Edit TA Manager's properties file

```
/opt/InterEdgeTAMgr/jakarta-tomcat-4.1.31/webapps/TAManager/WEB-INF/classes/TAManager/properties/TAManager.properties
```

There are only 2 parameters that can be modified in the file:

- **firmwarePrefix**: prefix of the firmware that the TAs connected to your system use. This way TA Manager can generate the configuration files compatible to the TAs. Example, if TAs are using InterEdge's firmware specify **firmwarePrefix= IETA200**.
- **configFilesPath**: FULL PATH to the directory where the TA Manager will place the configuration files. It has to be the same directory as the one used by your TFTP or HTTP server. This way, the TAs will be able to download

their config files through these servers. Ask your System Administrator if you are not sure which TFTP or HTTP directory your soft switch is configured with.

By default the TA Manager uses the directory **/usr/local/wata200**.

6. Configure TFTP and/or HTTP servers
This step is needed only if you are using **/usr/local/wata200** as your HTTP or TFTP directory.

- a. Create **/usr/local/wata200** directory. In the command line do:

```
mkdir /usr/local/wata200
```

- b. Configure HTTP server

1. Find out if your softswitch uses a HTTP server. Ask your System Administrator or run the command line:

```
./etc/rc.d/init.d/httpd status
```

If you get a message similar to the following, it means that the system is running a HTTP server.

```
httpd (pid 10247 10244) is running...
```

2. Edit file **/etc/httpd/conf/httpd.conf** and add the following lines:

```
#####  
## configuration for interedge devices  
#####  
Alias /wata200 "/usr/local/wata200"  
<Directory "/usr/local/wata200">  
    AllowOverride None  
    Order allow,deny  
    Allow from all  
</Directory>
```

3. Reinitialize HTTP server. Run command line:

```
/etc/rc.d/init.d/httpd restart
```

4. Go to **step 3**

- c. Configure TFTP server
Find out if your softswitch uses a TFTP server. Ask your System Administrator or run the command line:

```
ps -afe | grep tftp
```

If you get a message similar to the following, it means that the system is running a TFTP server.

```
root 3689 1 0 Sep27 00:00:00 /usr/local/tftp/tftpd  
/usr/local/userconfig
```

In this case the server is using directory `/usr/local/userconfig` so you need to change that by running:

```
/usr/sbin/in.tftpd -s /usr/local/wata200
```