F. Installing IRIS/Web Server

Overview

This appendix gives advise about how to install the IRIS web server. Note that IRIS/Web is a licensed product. You will need to get a license from SIGMET before IRIS/Web can run.

F.1 Removing tomcat 4.1

If you have installed tomcat 4.1 from our previous release you will need to uninstall it because we will be upgrading to tomcat 5.0.

To remove tomcat 4.1 type the following command:

```
# rpm –e ant–1.5.2–23 ant–libs–1.5.2–23 commons–fileupload–1.0–5 \
jaf–20030319–1 javamail–20031006–1 junit–3.8.1–1 mod_jk2–4.1.27–8 \
servletapi–4.1.7–10 tomcat–4.1.27–8 tomcat–libs–4.1.27–8
```

You still need to cleanup a few directories and files by typing the following:

```
# rm –rf /var/lib/tomcat
# rm –rf /var/log/tomcat
# rm –rf /var/cache/tomcat
# rm –r /etc/init.d/tomcat*
# rm –r /etc/httpd/conf/workers2.properties.*
```

F.2 Installing tomcat 5.0

Tomcat 5.0 needs to be installed first before installing the IRIS/Web code.

Install the optional tomcat 5.0 from the IRIS release cdrom. This is accessed by pushing the “Tomcat 5.0” button in the **install** program and then pressing the “Start” button.

F.3 Installing IRIS/Web code

Install the optional IRIS/Web code from the IRIS release cdrom. This is accessed by pushing the “IRIS/Web” button in the **install** program and then pressing the “Start” button.

F.4 Configuring Java

You must add the java bin directory to your PATH environment variable. Do this by editing the ${IRIS_CONFIG}/profile file. Take a look in /usr/java to see the directory name, and see the template in ${IRIS_ROOT}/config_template/init/profile. When upgrading, this would be a good time to make these files the same, except for required differences. Once this is working, you can test by typing:

```
$ java –version
```

F.5 Configuring Apache

Edit Apache's configuration file /etc/httpd/conf/httpd.conf. Change the line:

```
#ServerName new.host.name:80
```

to specify the correct ip–address of your host, for example:

```
ServerName 192.168.76.4:80
```

Once the above editing is complete save the file.

Next do the following:

```
# chkconfig ––del httpd
# chkconfig ––add httpd
# chkconfig ––level 345 httpd on
# chkconfig ––list httpd
```

Your httpd daemon should look like:

```
httpd    0:off  1:off  2:off  3:on   4:on   5:on   6:off
```

You can start it up manually with:

```
# service httpd start
```

F.6 Testing Apache

Run mozilla. Type in your host name on the URL line. You should see the RedHat Enterprise Linux Test Page.

If you are accessing from a different machine, you will need to configure as follows for mozilla:

Edit–>Preferences to popup the preferences menu. Select Advanced–>Proxies. In the section "No Proxy For:", add in the remote hostname. When done select "OK".

F.7 Integrating Tomcat with Apache

Here we are going to integrate Tomcat with Apache. This will be done by configuring Apache to send proxy requests to Tomcat

Edit the file: /etc/httpd/conf/httpd.conf and search for "**NameVirtualHost**". Add your ip–address.

Mine looks like the following:

NameVirtualHost 192.168.76.17:80

In the same file search for "**VirtualHost**" and add the following using your hostname and ip–address:

Mine looks like the following:

<VirtualHost 192.168.76.17:80>
ServerName hazy.sigmet.com
DocumentRoot /var/www/html
DirectoryIndex index.html index.shtml
ProxyPass /jsp–examples http://hazy.sigmet.com:8082/jsp–examples
ProxyPassReverse /jsp–examples http://hazy.sigmet.com:8082/jsp–examples
ProxyPass /irisservlets http://hazy.sigmet.com:8082/irisservlets
ProxyPassReverse /irisservlets http://hazy.sigmet.com:8082/irisservlets
</VirtualHost>

Once the above editing is complete save the file.

Now we need to open connector port 8082 on Tomcat. Edit the file /opt/tomcat/conf/server.xml

Search for the line "**Connector port="8082**"". We need to un–comment connector port 8082 by moving "—>" above "Connector port="8082""

Mine looks line the following:

<!— Define a Proxied HTTP/1.1 Connector on port 8082 —>
<!— See proxy documentation for more information about using this. —>
<!—
—>
<Connector port="8082"
maxThreads="150" minSpareThreads="25" maxSpareThreads="75"
enableLookups="false"
acceptCount="100" debug="0" connectionTimeout="20000"
proxyPort="80" disableUploadTimeout="true" />

Once the above editing is complete save the file.

Next do the following so the tomcat daemon will startup upon system reboot:

```
# chkconfig --del tomcat
# chkconfig --add tomcat
# chkconfig --level 345 tomcat on
# chkconfig --list tomcat
```

You should see a list of daemons. Your tomcat daemon should look like:

```
tomcat   0:off  1:off  2:off  3:on   4:on   5:on   6:off
```

F.8 Testing Apache and Tomcat

Stop and restart tomcat and httpd by typing:

```
# service tomcat stop
# service httpd stop
# service tomcat start
# service httpd start
```

Launch the mozilla web browser. Type in your hostname/jsp–examples/ on the URL line. You should see the ”JSP Samples” page. Select some jsp examples to see if they execute.

F.9 Configuring the default page

When someone accesses the server host via a browser, they go automatically to /var/www/html/index.html.

If the customer has an existing web page: Add a link to IRIS/Web with html code similar to the following:

```
<A HREF=”http://hostname/weblook/”>IRIS/Web</A>
```

If the customer does not have an existing web page: Add a redirect page to go directly to IRIS/Web as follows:

```
# cd /var/www/html/weblook
# cp indexRedirect.html ../index.html
```

F.10 Testing

Reboot the machine, to install the above configuration. Start IRIS, go to the RST menu and push in the “IRIS/Web” button. Then start your browser and type in the local hostname.

F.11 Comments about browsers

SIGMET recommends using the mozilla browser supplied with RHEL. It will also work with other browsers such as Internet Explorer 6. Instructions for configuring the various browsers is contained on IRIS/Web’s Java Plug–in Help Page.

F.12 Debugging

If the Web Look Window is not working correctly try the following test:

#service httpd stop
#service tomcat stop
#service httpd start
#service tomcat start

Bring up a browser (mozilla, firefox..). Test Tomcat by typing in the following url:

`http://your_hostname:8080/`

You should see the “Apache Tomcat/5.0.28” page.

Testing jsp examples in Tomcat by typing in the following url:

`http://your_hostname:8080/jsp-examples/`

You should see the “JSP Samples” page. Select some jsp examples to see if they execute.

Finally check if Apache is connected to Tomcat. Type in the following url:

`http://your_hostname/jsp-examples/`

You should see the ”JSP Samples” page. Select some jsp examples to see if they execute.