

Configuring Reports 6i for 9iAS

Software Used: Oracle 9iAS Release 1 (1.0.2.2.2); Oracle Reports 6i (6.0.8.11.2)

Author: James L. Colestock

Step 1: Install necessary Oracle Software Per Oracle Documentation

Only 9iAS's Enterprise Edition contains Forms and Reports Services

Step 2: Configure HTTP Listener (Apache) for Forms

There are many Configuration Files to be modified; I will attempt to list, whenever possible, just

Since all Forms Requests will be Brokered through the Apache HTTP Listener, we will begin he \$APACHE_HOME/conf/httpd.conf file. This is normally included by virtue of the \$APACHE_I present. Afterwords, we will modify Apache's JServ module to facilitate use of the Report Write

Entry in the \$APACHE_HOME/conf/httpd.conf:

```
# Include the Oracle configuration file for custom settings
include "/vol/oracle/product/9iAS/1.0.2.2.2/Apache/Apache/conf/oracle_apache..
```

Entry in the \$APACHE_HOME/conf/oracle_apache.conf:

```
include "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/conf/6iserver.conf"
```

Appropriate Entries in the \$DEV6i_HOME/conf/6iserver.conf:

```
# Apache configuration file for Forms and Reports Server

# Required virtual paths for Forms and Reports components
Alias /webcache/ "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/reports60/ver/cache/"
Alias /dev60html/ "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/tools/web60html/"
Alias /forms60java/ "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/forms60/java/"
Alias /jinitiator/ "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/jinit/doc/"
Alias /dev60temp/ "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/tools/web60temp/"

ScriptAlias /dev60cgi/ "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/tools/web60/cgi/"
# Create a Script Alias for your reports - name it what you like
ScriptAlias /reports/ "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/bin/"

# Forms and Reports CGI needs to have ORACLE_HOME set
SetEnvIf Request_URI "rwcgi60" ORACLE_HOME=/vol/oracle/product/9iAS/1.0.2.2/6iserver
SetEnvIf Request_URI "rwcgi60" LD_LIBRARY_PATH=/vol/oracle/product/9iAS/1.0.2.2/6iserver/lib
```

```

# The following is for Default Reports Server Resolution
SetEnvIf Request_URI "rwcgi60"   REPORTS60_REPORTS_SERVER=<Your Reports Serv
# TNS_ADMIN Home for Forms and Reports Service Name Resolution
SetEnvIf Request_URI "rwcgi60"   TNS_ADMIN=/vol/oracle/product/9iAS/1.0.2.2.
iserver/network/admin
# The following represents the host:port you chose for your xterm session
SetEnvIf Request_URI "rwcgi60"   DISPLAY=localhost:0.0
SetEnvIf Request_URI "f60cgi"    ORACLE_HOME=/vol/oracle/product/9iAS/1.0.2.
/6iserver
SetEnvIf Request_URI "f60cgi"    LD_LIBRARY_PATH=/vol/oracle/product/9iAS/1.
.2.2/6iserver/lib

# Forms CGI needs location of formsweb.cfg file
SetEnv   FORMS60_WEB_CONFIG_FILE  /vol/oracle/product/9iAS/1.0.2.2.2/6iserve
orms60/server/formsweb.cfg
# Mime types for Forms and Reports
AddType video/avi avi
AddType application/x-orarrp rrp rrrp rrpt rrrp

# Virtual paths for Forms and Reports demos (if installed)
Alias    /rep60demo/              "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/tools/de
m60/demo/reports/"
Alias    /forms60demo/           "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/tools/de
m60/web/"
Alias    /web_qt/                "/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/doc60/ad
/quicktour/US/"

```

Reminder: Restart Apache after making Configuration File Changes.

Step 3: Configure Apache's JServ for Reports Servlet

Make the following changes to the respective configuration files entries.

\$ORACLE_HOME/Apache/Jserv/etc/jserv.properties:

```

#Forms Servlet
wrapper.classpath=/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/forms60/java/f6
v.jar
wrapper.path=/vol/oracle/product/9iAS/1.0.2.2.2/bin:/vol/oracle/product/9iAS/
.2.2.2/6iserver/bin:/bin:/usr/bin
wrapper.env=PATH=/vol/oracle/product/9iAS/1.0.2.2.2/bin:/vol/oracle/product/9
/1.0.2.2.2/6iserver/bin:/bin:/usr/bin
# Required for Forms and Report Servlets alike
wrapper.env=LD_LIBRARY_PATH=/vol/oracle/product/9iAS/1.0.2.2.2/lib:/vol/oracl
product/9iAS/1.0.2.2.2/6iserver/bin:/vol/oracle/product/9iAS/1.0.2.2.2/6iserve
ib
wrapper.env=ORACLE_HOME=/vol/oracle/product/9iAS/1.0.2.2.2/6iserver
wrapper.env=FORMS60_PATH=/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/forms60
# Report Servlet Configuration
wrapper.classpath=/vol/oracle/product/9iAS/1.0.2.2.2/Apache/Jserv/servlets
wrapper.env=REPORTS60_REPORTS_SERVER=<Your Reports Server Here>
# Reports also uses the ORACLE_HOME environment variable set above for Forms
wrapper.env=TNS_ADMIN=/vol/oracle/product/9iAS/1.0.2.2.2/6iserver/network/adm

```

\$ORACLE_HOME/Apache/Jserv/etc/zone.properties:

```
# Forms Servlet Configuration
servlets.startup=f60servlet,f60listener,RWServlet
servlet.f60servlet.code=oracle.forms.servlet.FormsServlet
servlet.f60listener.code=oracle.forms.servlet.ListenerServlet
servlet.f60servlet.initArgs=configFileName=/vol/oracle/product/9iAS/1.0.2.2.2
server/forms60/server/formsweb.cfg
# Reports Servlet Configuration
servlet.RWServlet.code=oracle.reports.rwsgi.RWServlet
```

Step 4: Edit Reports 6i Server Configuration Files**\$DEV6i_HOME/reports60_server:**

This Script Starts up the Reports Server and Sets up its Environment

The Following Variables/Parameters may need to be Changed after Install:

- ORACLE_HOME: Should be Set to the 6i Server (a.k.a DEV6i_HOME)
- REPORTS60_PATH: Place for Reports Executables
- REPORTS60_REPORTS_SERVER: Default Reports Server, allows for the omission of "serv
- TNS_ADMIN: Net Service Name Resolution
- DISPLAY: Set this to the host:port of your xterm session

```
#!/bin/sh
## Startup script for Reports Server
## Refer to Install Doc for more detail on each of these environment variable

if [ "$1" ]
then
    case $1 in
        start)    action=$1
                ;;
        stop)     action=$1
                ;;
        ouistart) action=$1
                ;;
        *)        echo "`basename $0`: incorrect action specified"
                echo "Usage: `basename $0` { start | stop } "
                exit 1
    esac
    shift
else
    echo "`basename $0`: no action specified"
    echo "Usage: `basename $0` { start | stop } "
    exit 1
fi
ORACLE_HOME=/vol/oracle/product/9iAS/1.0.2.2.2/6iserver; export ORACLE_HOME
## If you need more than one directory in your path, all directories should
## separated by ':'
## If REPORTS60_NO_DUMMY_PRINTER is set, no printer needs to be set up
## for Reports Server.
PATH=$ORACLE_HOME/bin:$PATH; export PATH
LD_LIBRARY_PATH= $ORACLE_HOME/lib:/usr/openwin/lib:/usr/dt/lib:$ORACLE_HOME/n
LD_LIBRARY_PATH
REPORTS60_NO_DUMMY_PRINTER=; export REPORTS60_NO_DUMMY_PRINTER
REPORTS60_CLASSPATH= $ORACLE_HOME/network/jrell/lib/rt.jar:$ORACLE_HOME/repor
export REPORTS60_CLASSPATH
REPORTS60_JNI_LIB=$ORACLE_HOME/network/jrell/lib/sparc/native_threads/libjava
# Set to the host:port of your xterm session
```

```

DISPLAY=localhost:0.0; export DISPLAY
REPORTS60_REPORTS_SERVER= <Your Reports Server Here> export REPORTS60_REPORTS_SERVER
REPORTS60_SSLPORT= 443; export SSLPORT
# Reports Server looks in REPORTS60_PATH for reports to run
REPORTS60_PATH=$ORACLE_HOME/reports60:$ORACLE_HOME/reports60/admin/templates:
t REPORTS60_PATH
REPORTS60_WEBLOC=/webcache; export REPORTS60_WEBLOC
if [ "$NLS_LANG" = "" ]
then
NLS_LANG=AMERICAN_AMERICA.WE8ISO8859P1; export NLS_LANG
fi

if [ "$TNS_ADMIN" = "" ]
then
TNS_ADMIN=$ORACLE_HOME/network/admin; export TNS_ADMIN
fi

## You may need to set TWO_TASK or ORACLE_SID to connect to database
#TWO_TASK=; export TWO_TASK
#ORACLE_SID=; export ORACLE_SID

# Stop and start Reports Server
echo "\nStopping Reports Server <Your Reports Server Here> processes..."
pid=`ps -Af | grep rwm60 | grep <Your Reports Server Here> | awk '{print $2}'`
if [ "$pid" ]
then
    for cpid in `ps -Af | grep rwr60 | grep $pid | awk '{print $2}'`
    do
        echodo kill -9 $cpid
    done
    if (echodo kill -9 $pid)
    then
        echo "Reports Server <Your Reports Server Here> stopped."
    else
        echo "Could not stop Reports Server <Your Reports Server Here>."
    fi
else
    echo "Could not find running instance of Reports Server <Your Reports Server Here>."
fi

if [ "$action" = "start" ]
then
echo "\nStarting new Reports Server <Your Reports Server Here>."
echo "rwm60 name=<Your Reports Server Here> $"
rwm60 name=<Your Reports Server Here> $* &
echo
fi

if [ "$action" = "ouistart" ]
then
echo "\nStarting new Reports Server <Your Reports Server Here>."
echo "rwm60 name=<Your Reports Server Here> $"
echo
# Need to close off file descriptors for OUI config tool to work properly
# See bug 1182560 for details
exec 1>/vol/oracle/product/9iAS/1.0.2.2.2/install/reports60_server.log 2>&1 0
rwm60 name=<Your Reports Server Here> $* &
fi

```

```
exit 0
```

Step 5: Start Reports Services

I start the Reports Server with a Script outside the ORACLE_HOME. Make sure that you have r

```
oracle:249:/vol/oracle/admin >more maintain_reports.sh
#!/bin/bash
# Set The Developer 6i Home
# James Colestock 5/23/03
DEV6i_HOME=/vol/oracle/product/9iAS/1.0.2.2.2/6iserver
if [ "$1" ]
then
  echo `date` >> /vol/oracle/logs/oracle_reports.log
  ${DEV6i_HOME}/reports60_server $1 >> /vol/oracle/logs/oracle_reports.log
else
  echo ""Usage: `basename $0` start | stop ""
fi

oracle:250:/vol/oracle/admin >./maintain_reports.sh start
oracle:251:/vol/oracle/admin >tail ../logs/oracle_reports.log

Tue Jun 10 09:13:38 PDT 2003

Stopping Reports Server Rep60_dromi.oit.pdx.edu processes...
kill -9 5853
Reports Server Rep60_dromi.oit.pdx.edu stopped.

Starting new Reports Server Rep60_dromi.oit.pdx.edu.
rwmts60 name=Rep60_dromi.oit.pdx.edu

oracle:252:/vol/oracle/admin >ps -ef | grep rwmts*
oracle 5870 1 0 09:13:38 pts/2 0:00 rwmts60 name=Rep60_dromi.oit.p
oracle 5873 5807 0 09:13:58 pts/2 0:00 grep rwmts*
oracle:253:/vol/oracle/admin >
```

Step 6: Test Services

Reports Servlet Implementation

<http://<host>:<port>/servlet/RWServlet?server=<YourReportServer>&report=test.rdf&destype=>

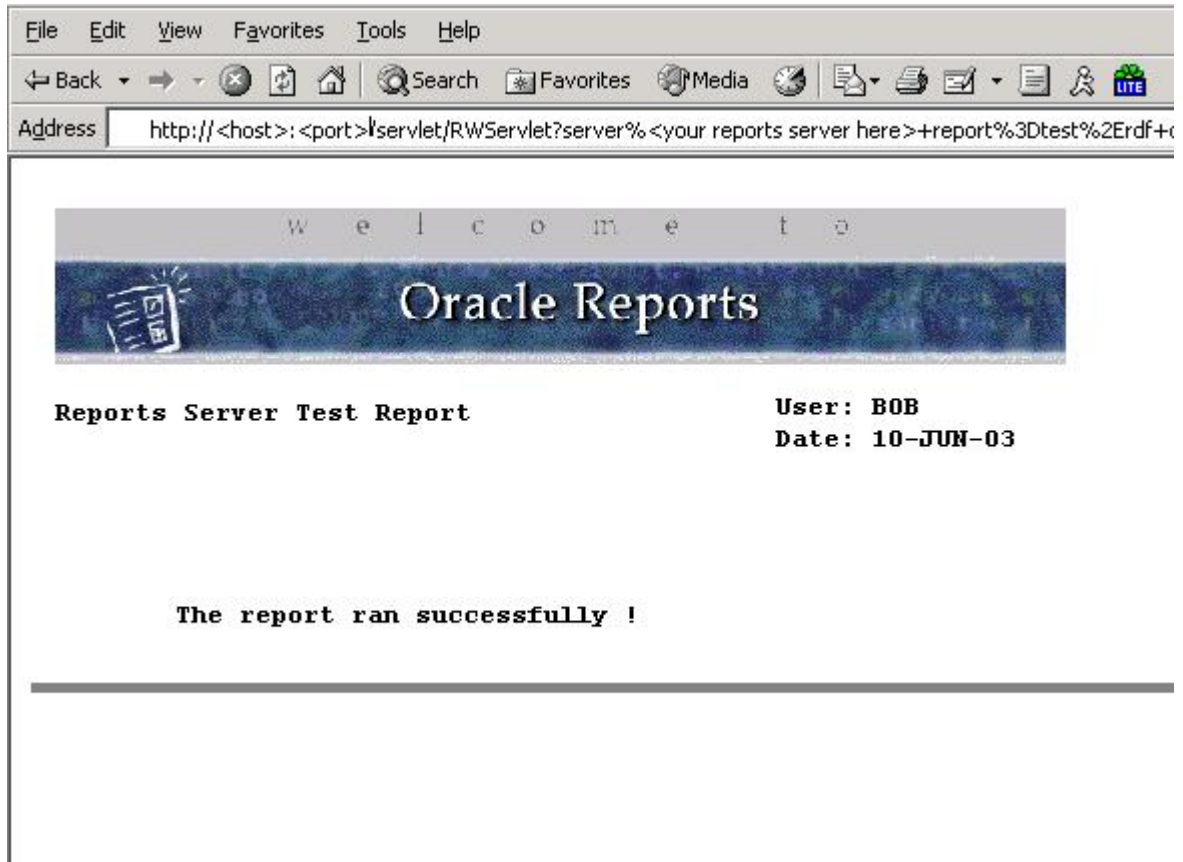
Database User Authentication

User Name:

Password:

Database:

Authenticate and Ensure the Report Runs to Fruition



Test the aforementioned in SSL mode and then Test the CGI Implmentation in both HTTP and F
`http://<host>:<port>/reports/rwsgi60?server=<Your Reports Server>&report=test.rdf&destype=`

Step 7: Patch Reports to Desired Patchset Version

Step 8: Deploy Your Application