**Rational** **Synergy 7.2.1 Installation with Informix on Unix**

**Prerequisites**

1. **Install Rational Directory Administrator**
2. **Install Rational Directory Server 5.1.1.2**
3. **Rational Licence Key Server 8.1.1**
4. IBM Rational Synergy 7.2 and above requires some of the 32 bit libraries to be installed on Red Hat Enterprise Linux (RHEL) 6x and above for successful installation and functioning as desired.

**The following 32-bit libraries or packages needs to be installed on RHEL 6x and above:**

alsa-lib-1.0.21-3.el6.i686  
audit-libs-2.0.4-1.el6.i686  
bzip2-libs-1.0.5-6.1.el6.i686  
expat-2.0.1-9.1.el6.i686  
fontconfig-2.8.0-3.el6.i686  
freetype-2.3.11-5.el6.i686  
glibc-2.12-1.7.el6.i686  
libgcc-4.4.4-13.el6.i686  
libICE-1.0.6-1.el6.i686  
libSM-1.1.0-7.1.el6.i686  
libstdc++-4.4.4-13.el6.i686  
libX11-1.3-2.el6.i686  
libXau-1.0.5-1.el6.i686  
libxcb-1.5-1.el6.i686  
libXext-1.1-3.el6.i686  
libXft-2.1.13-4.1.el6.i686  
libXi-1.3-3.el6.i686  
libXp-1.0.0-15.1.el6.i686  
libXrender-0.9.5-1.el6.i686  
libXt-1.0.7-1.el6.i686  
libXtst-1.0.99.2-3.el6.i686  
ncurses-libs-5.7-3.20090208.el6.i686  
pam-1.1.1-4.el6.i686  
zlib-1.2.3-25.el6.i686

**Installation Steps**

1. Verify the current synergy version on the installation computer

CCM\_HOME/patches folder will have latest file

1. Compare with Latest fixpack build (the cksum 7.2-RATISYN-1\_<PLATFORM>.tar.gz)
2. Create a temporary directory for installation

* cd /data1/testbed/cm721
* mkdir /tmp/synergy\_image
* cd /tmp/synergy\_image

1. copy the installler tar.gz file in a tmp folder under /data1/testbed/cm721/tmp
2. cat download.tar.gz | gzip -d | tar xf –
3. Create ccm\_root user and group :

* useradd -g users -p <password> -d /home/ccm\_root -m ccm\_root
* groupadd ccm\_root
* Add user to group :- usermod -g groupname username
* change the password by sudo passwd ccm\_root

1. Setting up ccm\_root users permissions
   * + chown ccm\_root /home/ccm\_root
     + chgrp ccm\_root /home/ccm\_root
     + chmod 755 /home/ccm\_root
2. Setting up Informix users and group

* useradd -g users -p b1ackjack! -d /home/informix -m Informix
* groupadd informix
* Add user to group :- usermod -g groupname username
* change the password by sudo passwd Informix

9. Setting Permissions for Informix user

* chown informix /home/informix
* chgrp informix /home/informix
* chmod 755 /home/informix

1. Create installation directories and set permissions under /data1/testbed folder

* mkdir ccm
* mkdir ccmdb
* mkdir ifmx
* chmod 770 ifmx
* chmod 755 ccm
* chmod 755 ccmdb
* chown ccm\_root:ccm\_root ccm ccmdb

1. Set environment variable

export CCM\_HOME=/data1/testbed/cm721/ccm

export Path=$CCM\_HOME/bin:$PATH

1. Create a .path file for setting environment variables under /data1/testbed/cm721/ccm/bin

cd /data1/testbed/cm71/ccm/bin - vi .path

export CCM\_HOME=/data1/testbed/cm721/ccm

export Path=$CCM\_HOME/bin:$PATH

1. Run ccm\_install -x to perform installation as root

cd /data1/testbed/cm721/ccm/unix/bin

./ccm\_install -x

1. The ccm\_install program prompts you for the router service host name, router service name, router service port number, ESD (engine startup daemon) port number, CCM server port number, license server host name, license server port number, and Rational Directory Server port number.

Note : Use netstat -an |grep port number to find an unused port

Follow the below convention while assigning ports:

* Ending ‘0’ as router port
* Ending ‘1’ as esd port
* Ending ‘2’ as server port 13602
* Ending ‘3’ as help server port

1. The installation details can be seen in the system info file in the below path:

/data1/testbed/cm721/ccm/etc/system\_info

1. Make an entry for <Informix server name>\_<hostname> in the /etc/services file

<Informix server name>\_<hostname> <port number>/tcp ### INFORMIX Server Num=10

1. Now create Informix database. You need to login as Informix user to perform this operation

Run ccmsrv create -s servername to create Informix server

1. Provide the input to create Informix database and chunk files (The chunk files must be created under /data1/testbed/cm721/ifmx
2. After the Informix database is created successfully unpack base.cpk file
3. Login as ccm\_root to unpack database
4. Run ccmdb unpack /data1/testbed/cm721/ccm/packfiles/pack.cpk -t /data1/testbed/cm721/ccmdb/DB Name
5. Run ccmsrv status to check the database created
6. Run ccm\_monitor the check the processes status
7. Run ccm\_start\_daemons to start the synergy daemons.
8. Start Synergy session

ccm start -m – q -d <database path> -s <server url> -pw <synergy user password>

1. Now add users to the Database

ccm users -help – Refer the users help command to add users to the database

Note : User must have have ccm\_admin role to perform this action

1. Export CCM\_ADDR=<The address of the synergy instance in the above step>

**Note:** If this fix pack is not upgraded from 7.2.1.2 iFix 001 or later, then it requires that RDS tdsadmin credentials are configured appropriately for authentication through RDS. Failing to do so, would result in authentication not working.

Once the installation directory has been updated, configure RDS tdsadmin user credentials as the ccm\_root user.

Run setup\_rds to configure RDS.

**References**

**https://www.ibm.com/support/knowledgecenter/SSRNYG\_7.2.1/com.ibm.rational.synergy.doc/helpindex\_synergy.html**