Configure Single BIA Appliance to Switch Between Multiple BI System

Applies to

Any SAP environment using SAP BI and Business Intelligent Accelerator (BIA). For more information, visit the EDW homepage.

Summary

This is a how to guide for configuring a single BIA appliance to be used by different BI system, but only one BI system will be active at any given point of time. This is only for a non-production environment.

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Author Bio

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Introduction

Many places we come across situation where in we have budget constrain or various other reasons that stops us from building the entire non production environment similar to that of the production, especially when it comes to cost involved on HW such as the BIA.

This document is outcome of one such situation and is being shared, so that can be used by similar audiences.

The production system had a full blown setup of BIA with more than 8 blades.

The quality BIA had four blades and cannot be shared between two quality BI systems due the memory constrains.

But there were situations where in we need to switch the BIA from one QA BI system to another QA BI system.

The below steps shows how to accomplish it with minimum effort.

Configuration

The paths shown below reflect HP blades. This will be little different for other HW products.

Logon to the primary blade.

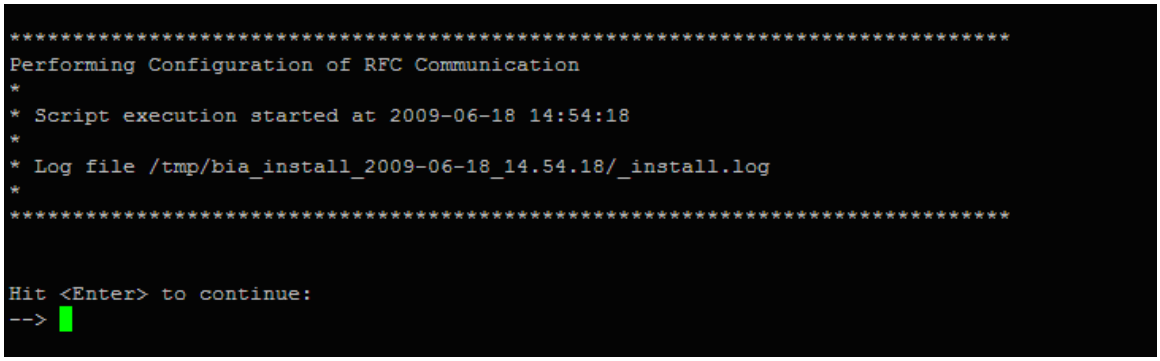
Switch to user root.

Go to the folder where you have the install.sh script

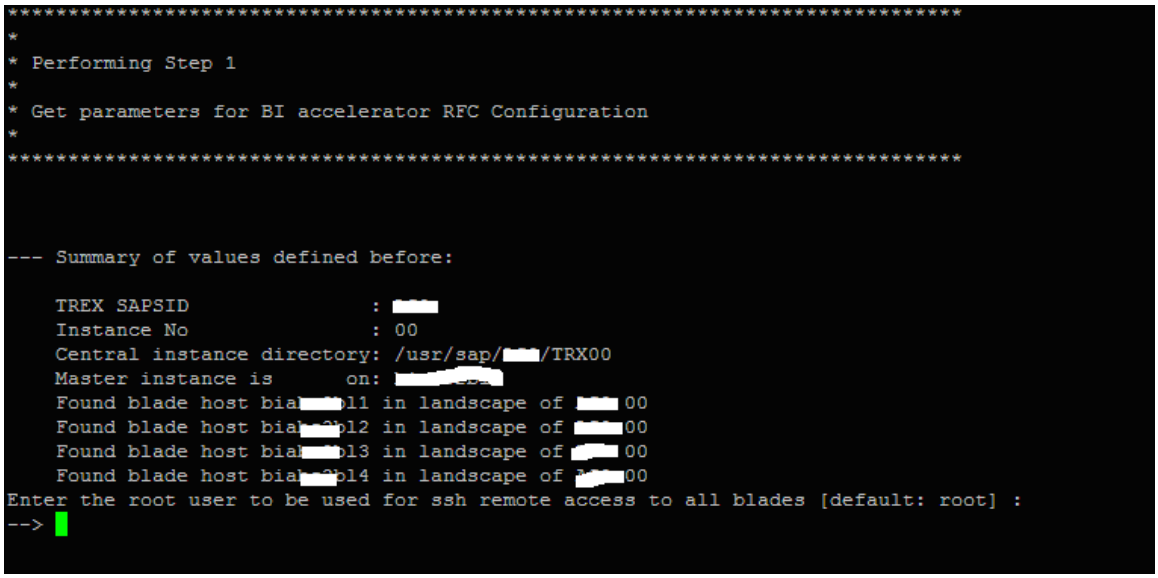
Execute the install.sh script

```
********************************************************************************
*
*
* Installation script for BI accelerator (TREX) for SAP NetWeaver 2004s BI
*
*
*
* Script execution started at 2009-06-18 14:54:18
*
* Log file /tmp/bia_install_2009-06-18_14.54.18/_install.log
*
********************************************************************************

stdout logger set
You have to decide, if you want to

1 - install a new TREX instance
2 - clone an existing TREX instance to a new blade host
3 - update an existing TREX instance
4 - configure RFC connection of an existing TREX instance
5 - deinstall an existing TREX instance
6 - quit without any system change

Enter one of the options: 1, 2, 3, 4, 5, 6
--> 4
```

Choose option 4 and hit enter.

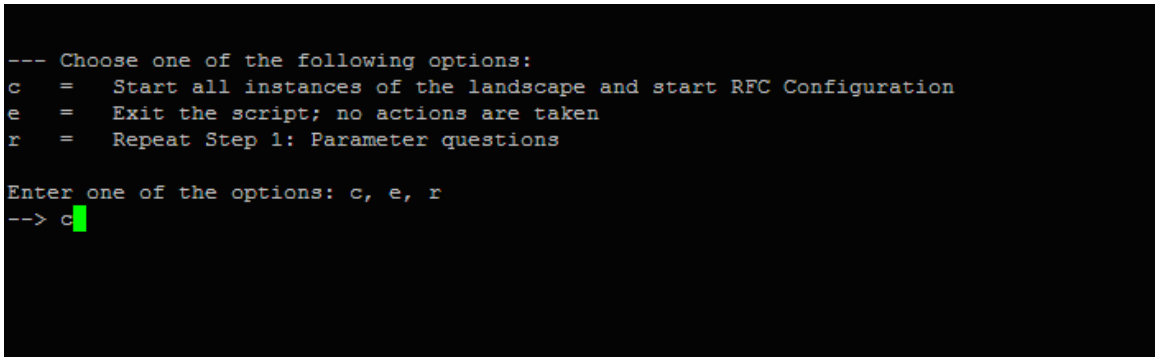


Hit Enter to continue



In the above screenshot you will see the existing BIA instance (lets call it ABC) with the blade hosts and instance number.

Leave it as default and hit enter.



Type in ‘C’ to continue.

Type in ‘y’ to confirm the restart and once the services are recycled on all the four blades you will receive the following message

Confirm ‘C’ to continue with the configuration for the new BI system.

```
*******************************************************************************
*
* Performing Step 2
*
* Configuration of the RFC connection to SAP BI system
*
*******************************************************************************

Installed instance is /usr/sap/[redacted]TRX00

You can now start RFC configuration or skip this step
Enter 'c' to continue or 's' to skip [default: c] :
--> c

--- Executing RFC Ccnfiguration in the installed and running TREX instance ---

*********************************************************
*               Initial RFC Configuration               *
*********************************************************
*
* This script prompts you for data to establish a connection
* between the BIA Engine and the specified BI system.
*
---------------------------------------------------------

Specify the following parameters for your BI system:

SAP System Name (SAP SID):
--> [redacted]S2
System Number:
--> 00
Application Server Host:
--> [redacted]
Client:
--> 003
User:
--> RFCBIA
Password:
Should a new RFC Destination be created in SAP System BS2? (y/n):
--> y
Name of the new RFC Destination (max. 32 characters, ABAP limitation) [default: TREX_BIA] :
--> TREX_[redacted]
```

Provide the necessary inputs like for instance

SAP SID – sid of the new system – PS2

System number – 00

Client – 003

User – RFCBIA

Provide ‘Y’ – to create the RFC destination in the BI system.

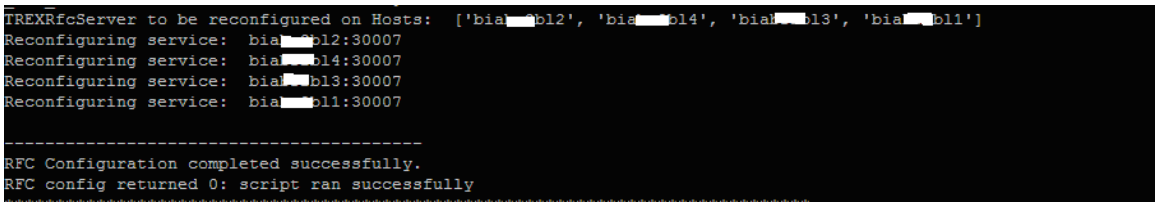
Name of the RFC destination – TREX_PS2_ABC (just a naming standard to identify which system is connected to the BIA in a later stage).

Hit enter to get the following screen.

```
The script will now store your input in TREX and create
RFC destination TREX_[redacted] in SAP system [redacted]

Please choose one of the following actions:
c =     Continue the installation - all data are ready
e =     Exit without system changes
r =     Repeat data questions for input correction
Do you want to continue/repeat/exit (c/r/e)
-->
```

Type in ‘C’ to continue.

Once the configuration is done by the script you should see successful messages similar to below.



The configuration and connection to the second QA BI system connection has been completed now.

Proceed as shown below to do the switching when required to switch the BI system connected to the BIA.

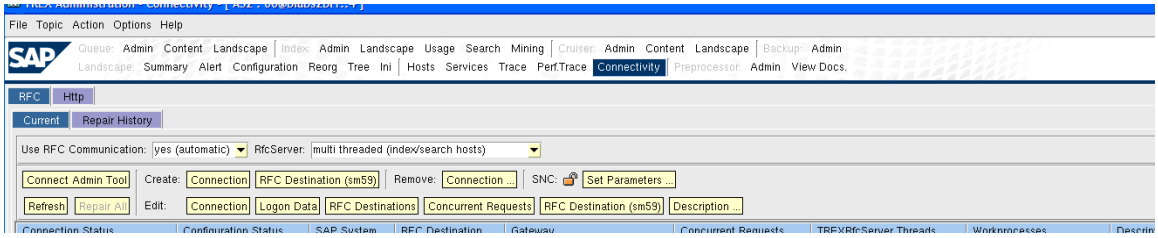
Switching

Log on to the stand alone tool;

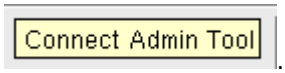
Under the tab <connectivity>.

Choose the old system entry and edit the logon data or remove the whole connection itself.

We are basically breaking the existing connection. Before this step makes sure the indexes are deleted that are associated with this BI system. (if there is storage is a constrain too).



Select ‘OK’ to confirm.

Select the new RFC system entry and click on 

.

The BIA switching is complete.

To switch back to the old BI system , proceed as in section Switching.

Related Content

For more information, visit the EDW homepage.

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