07/03/96

Floating Network Login Licenses In AIX 4.1

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About This Document

This document discusses the installation of a floating license for AIX logins and is applicaple to versions 4.1.

Installing A Floating License For AIX logins

To install and enable AIX floating licenses, perform the following steps:

1. Install the necessary filesets from the server install media. These include:
   - bos.sysmgt.loginlic -- License Management (chlicense,monitord)
   - bos.ifor_ls.client -- iFOR/LS License System Client Utilities
   - bos.ifor_ls.server -- iFOR/LS Server Utilities (netlsd)
   - bos.rte.ifor_ls -- iFOR/LS Libraries
   - bos.net.ncs -- Network Computing System (glbd,llbd)
2. Use the following steps to configure the server.
   a. Run the shell script

      ```
      "/usr/lib/netls/conf/netls_config".
      ```

   b. When prompted by the following questions, give the following answers:

      Do you want the "llbd" started automatically when the machine boots? Y

      Do you want "netlsd" started automatically when the machine boots? Y

      (You *might* be asked this question) There exists an initialized database already for the glbd. Do you wish to use that database when starting the "glbd" daemon? N

You will be shown a listing of all the cells that your machine can identify. If you are setting up your machine in a new alternate cell, none of this information is relevant to you. If you intend to join an alternate cell that has already been estab- lished, note the cell number when it is displayed on the screen. Please note that the cell numbers may be assigned differently each time netls_config is run.

You will have three or four options:

1) Continue with installation without choosing a Cell_Name.

2) Use the default for the system Cell Name.

3) Create a new alternate cell for the system Cell Name.

4) Choose an existing alternate cell for the system Cell Name.

Please indicate your choice (1, 2, 3, or 4):

1) Choose "1" if you do not know what configuration you want and just want to quit. You will have to re-run netls_config later.

2) Choose "2" only if your site administrator tells you it is OK to use the default cell, or if you are on a stand-alone machine. Remember that bridging of cells is not allowed.

3) Choose "3" if you are going to run your server in a brand new alternate cell. This is the recommended selection to use if you are unsure.

4) Choose "4" if you are going to join your server to a cell that has already been established. You will then be prompted for the number of the alternate cell you want to join. Enter that number now.

c. You are done with the netls_config script. It has created a secondary shell script called "/usr/lib/netls/conf/netls_first_time".

d. Run the "netls_first_time" script. This will start the daemons needed for serving license requests. This script only needs to be run once.

After the first time, the daemons can be started with the startsrc command. They must be started in the correct order (llbd, then glbd, then netlsd). The exact commands are:

```
startsrc -s llbd
startsrc -s glbd
startsrc -s netlsd
```

This may also be accomplished by running the command:

```
/usr/lib/netls/bin/srv_start
```

e. If at some point you have to reconfigure your server for a different cell, stop the llbd, glbd, and netlsd daemons and then re-run the netls_config script, followed by the netls_first_time script.

To stop the daemons manually, use the stopsrc command. The daemons must be stopped in the reverse order that they were started. The exact commands are:

```
stopsrc -s netlsd
stopsrc -s glbd
stopsrc -s llbd
```

or you can use the command:

```
/usr/lib/netls/bin/srv_stop
```

3. Now that your license server is up and running, you will need to enable floating licenses. You can do this on the command line by issuing the command:

   ```
   chlicense -f on
   ```

   or use the SMIT utility under:

   ```
   System Management
     System Environments
       Change / Show Number of Licensed Users
   ```

4. Next, install the AIX floating user licenses by means of the following SMIT menus:

   ```
   System Management
     System Environments
       Manage AIX Floating User Licenses for This Server
   Register Floating Licenses
   ```

   To change the number of AIX floating licenses installed on a system, you may use the following smit menus:

   ```
   System Management
     System Environments
       Manage AIX Floating User Licenses for This Server
   Change the Number of Installed Floating User Licenses
   ```

5. If your server machine has the file "/etc/ncs/glb_obj.txt", then all users that need licenses from your server must copy that file to their client machines. The file contains the identifier for the alternate cell.

   Example /etc/ncs/glb_obj.txt file:

   ```
   90b82be849c7.02.81.23.86.fb.00.00.00
   ```

6. If a client machine is on a different subnet than your server machine, then the client machine must have the file "/etc/ncs/glb_site.txt". The contents of the file will identify the server machine. For example, if the server machine is "myserver.mynet.mycompany", then the glb_site.txt file will contain the line:

   ```
   ip:myserver.mnet.mycompany
   ```

   The glb_site.txt file can also specify the IP network address of the server machine. For example, if the IP address of the host machine is 126.17.203.222, then the glb_site.txt file will contain the line:

```
ip:#111.22.333.444
```

Example /etc/ncs/glb_site.txt file:

```
ip:myserver.mynet.mycompany
ip:#111.22.333.44
```

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