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Installation and Configuration of the "C for AIX Compiler" (server and Client)

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To be able to use the C for AIX Compiler, a server-side license and configuration must be done as well as a client-side installation. Here are the steps to achieve this goal.

1. *madre* is the hostname of the AIX server on which to install the C for AIX Compiler (license and tools)

First, check the necessary AIX filesets (and install them accordingly):

```
# lspp -l | egrep "vac|bos.rte|bos.adt.libm" | sort -u
bos.adt.libm          5.3.0.10  COMMITTED  Base Application Development
bos.rte               5.3.0.10  COMMITTED  Base Operating System Runtime
vac.C                 6.0.0.0   COMMITTED  C for AIX Compiler
vac.C.readme.ibm      6.0.0.0   COMMITTED  C for AIX iFOR/LS Information
vac.lic               6.0.0.0   COMMITTED  C for AIX Licence Files
```

For simplicity purpose, the same packages will be installed on each of the server and the client for the C for AIX Compiler.

Note #1: the bos. filesets can be found in the lpp source lpp_source530.*

Note #2: the vac. filesets can be found in the lpp source C_for_AIX_60.*

Configuration of the license server: Concurrent Network License Server

Based on information found in the file /usr/vac/README.password:

Check for the necessary License Use Runtime filesets:

```
# lspp -l | egrep "ifor" | sort -u
bos.rte.ifor_ls       5.3.0.10  COMMITTED  iFOR/LS Libraries
ifor_ls.base.cli      5.3.0.10  COMMITTED  License Use Management Runtime
```

To configure LUM, perform the following steps (based on the content of /usr/vac/cforaix_c.lic):

```
# cd /usr/opt/ifor/ls/os/aix/bin
# ./i4config
/*
* Answer the LUM configuration questions as appropriate (configure a Concurrent Network license server):
* a) Select 4 "Central Registry (and/or Network and/or Nodelock) License Server" on the first panel
* b) Answer y to "Do you want this system be a Network License Server too?"
* c) Answer n to "Do you want this system be a Nodelock License Server too?"
* d) Answer n to "Do you want to disable remote administration of this Network License"
* e) Select 2 "Direct Binding only"
* f) Answer n to "Do you want to change the Network License Server ip port number?"
* g) Answer n to "Do you want to change the Central Registry License Server ip port number?"
* h) Select 1 "Default" as the desired server(s) logging level
* i) Enter blank to accept the default path for the default log file(s)
* j) Answer y to the Network Server question "Do you want to modify the list of remote Nodelock and/or
*    Network License Servers this system can connect to in direct binding mode (both for Administration purposes and for
*    working as Network License Client)?"
* k) Select 3 "Create a new list" to the direct binding list menu
* l) Enter the hostname, without the domain, of the system you are configuring LUM when prompted for the "Server network
*    name(s)", for example: madre
* m) Answer n to "Do you want to change the default ip port number?"
* n) Select 1 "preserve the current list" to the direct binding list menu
* o) Answer y to "Do you want the License Server(s) automatically start on this system at boot time?"
* p) Answer y to continue the configuration setup and write the updates to the i4ls.ini file
* q) Answer y to "Do you want the License Server(s) start now?"
*/
```

The Concurrent Network license certificate is contained in the file /usr/vac/cforaix_c.lic. To enroll a license certificate:

```
# cd /usr/opt/ifor/ls/os/aix/bin
# ./i4blt -a \
```

```

-v "'IBM Software Solutions Toronto' 5da54a553b4c.02.09.15.31.05.00.00.00 p9gb3ycs6ydpw" \
-p "'C for AIX' '6.0.c' bcme fhz6zkdmdaaxe524si3kbg b2zwxsaqskixs222 " \
-T 1 \
-R "DSI/ASP/SUT"
i4blt Version 4.6.8 AIX -- LUM Basic License Tool
(c) Copyright 1995-2004, IBM Corporation, All Rights Reserved
US Government Users Restricted Rights - Use, duplication or disclosure
restricted by GSA ADP Schedule Contract with IBM Corp.
(c) Copyright 1991-1997 Gradient Technologies Inc., All Rights Reserved
(c) Copyright 1991,1992,1993, Hewlett-Packard Company, All Rights Reserved

```

ADM-10099: Product successfully enrolled

After enrolling a concurrent-network certificate, the licenses **must** be *distributed* to one or more LUM license servers (only for Concurrent-Network Certificate Enrollment):

```

# ./i4blt -E \
-n madre \
-v "'IBM Software Solutions Toronto'" \
-p "'C for AIX' '6.0.c'" \
-A 1 \
-w "madre"
i4blt Version 4.6.8 AIX -- LUM Basic License Tool
(c) Copyright 1995-2004, IBM Corporation, All Rights Reserved
US Government Users Restricted Rights - Use, duplication or disclosure
restricted by GSA ADP Schedule Contract with IBM Corp.
(c) Copyright 1991-1997 Gradient Technologies Inc., All Rights Reserved
(c) Copyright 1991,1992,1993, Hewlett-Packard Company, All Rights Reserved

```

ADM-10723: The license was successfully distributed.

[Client configuration to access to the License and Central Registry servers](#)

To configure a LUM Network Client, perform the following steps:

```

# cd /usr/opt/ifor/ls/os/aix/bin
# ./i4config
/*
* a) Answer y to "Do you want to terminate them NOW?"
* b) Select 1 "Network License Client" on the first panel
* c) Answer y to "Do you want this system be a Network License Server too?"
* d) Select 2 "Direct Binding only"
* e) Select 3 "Create a new list" to the direct binding list menu
* f) Enter the "Server network name(s)", for example: madre
* g) Enter the "Please specify the Central Registry License Server name", for example: madre
* h) Answer n to "Do you want to change the default ip port number?" (to locate License Servers)
* i) Answer n to "Do you want to change the default ip port number?" (to locate the Central Registry License)
* j) Select 1 "preserve the current list" to the direct binding list menu
* k) Answer y to continue the configuration setup and write the updates to the i4ls.ini file
*/

```

Verify the license configuration... say, on the client side for example:

```

# TERM=vt220 smitty
/*
* Software License Management
* Show Available License Servers
i4tv Version 4.6.8 AIX -- LUM Test and Verification Tool
(c) Copyright 1995-2004, IBM Corporation, All Rights Reserved
US Government Users Restricted Rights - Use, duplication or disclosure
restricted by GSA ADP Schedule Contract with IBM Corp.
(c) Copyright 1991-1997, Gradient Technologies Inc., All Rights Reserved
(c) Copyright 1991,1992,1993, Hewlett-Packard Company, All Rights Reserved

Completed license transaction on node ce3a0c51 running LUM 4.6.8 AIX
Active License Servers:
ip:madre.dev.example.com (IBM/AIX) running LUM 4.6.8 AIX
Active Central Registry License Server:
ip:madre.dev.example (IBM/AIX) running LUM 4.6.8 AIX
*/

```

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