



## Tivoli Netcool®/OMNIBus

### *OMNIBus 7.2.1 creating and starting an ObjectServer*

**Tivoli.** software



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Hello, welcome to the IBM Education Assistant Module for OMNIBus 721 creating and starting an object server.

## Objective

- Upon completion of this module you should be able to create an object server entity and then start that object server

The objective for this module is to be able to create an object server entity, then start that object server.

## Steps to create an object server.

- The first step is to know your architecture.
  - ▶ Determine an object server type to create:
    - Desktop object server
    - Stand-alone or primary object server
    - Backup object server
- The next step is to identify the object server in the interface file.
- The final step is to initialize the database for the object server.

The steps to creating an object server are to first know your architecture. Determine an object server type you need to create whether it be a desktop object server or stand-alone or primary object server or backup object server. The next step is to identify the object server in the interface file. The final step is to initialize the database for that object server.

## Object server creation

- Once you have determined the type of object server you are creating, for your architecture, you must define the new object server within the interface file.
- You have two methods of defining the object server within the interface file:
  - ▶ Use the nco\_xigen GUI.
  - ▶ Directly editing the omni.dat file.

Once you have determined the type of Object Server you are creating you must define the new Object Server within the interface file. You have two methods of defining the Object Server within the interface file. The first method is to use the nco\_xigen GUI. The second, by directly editing the omni.dat file.

## Method 1: Using the nco\_xigen GUI

■ To use nco\_xigen GUI, as an OMNIBus administrator, enter the following commands:

```
▶ cd $OMNIHOME/bin
▶ ./nco_xigen &
```

■ Initiate changes in GUI to define a new ObjectServer as follows:

The screenshot shows the nco\_xigen GUI with the following elements and instructions:

- 1. Click on existing name.** Points to the 'VIRTUAL' entry in the server list.
- 2. Change name to new ObjectServer.** Points to the 'Name' field containing 'NEWOBJSERV'.
- 3. Enter host of new ObjectServer.** Points to the 'Host' field containing 'tiny'.
- 4. Enter Unused port number.** Points to the 'Port' field containing '4150'.
- 5. Click ADD.** Points to the 'Add' button.
- 6. Click APPLY.** Points to the 'Apply' button at the bottom left.

Additional visible elements include the 'Host' field set to 'tiny', 'Port' set to '4150', 'SSL' set to '0', and buttons for 'Add', 'Update', 'Apply', 'Close', 'Import', 'Help', and 'About'. A 'Generate All' checkbox is also present.

To use the nco\_xigen GUI you must first launch the GUI. As an OMNIBus administrator command-line user, enter the command `nco_xigen &` in the `$OMNIHOME/bin` directory. You will see the nco\_xigen GUI open. Here you must define your new Object Server. You can click an existing Object Server, and in the NAME field enter the new Object Server's name, 16 characters or less. Identify your listening port whether it be SSL or a unsecured port. Click the ADD button, then click APPLY to save the changes.

## Method 2: Directly editing the omni.dat file

▪ To edit the omni.dat file, as an OMNIBus administrative user, open the file for editing. Use the following commands:

```
▶ cd $NCHOME/etc
▶ vi omni.dat
```

▪ Copy an existing entry in the file. Paste the copy below the entry. Edit the name and port values as in the following example:

```
#
# Ident: $Id: omni.dat 1.5 1999/07/13 09:34:20
[BACKUP]
{
    Primary:          tiny 4110
}
[BACKUP]
{
    Primary:          tiny 4110
}
:wq!
```

Change [BACKUP] to [NEWOBJSERV]

Enter NEWOBJSERV's host

Change PORT VALUE TO AN UNUSED VALUE (for example, 4150)

Save and close file.

To directly edit the omni.dat file you must, as an OMNIBus administrative user, open the file for editing from the \$NCHOME/etc directory. Copy an existing Object Server or other entry and paste it below that entry. Change the name in the square brackets to the new Object Server's name and identify an unused port number. Save and close the file.

## Method 2: Directly editing the omni.dat file

- After editing the omni.dat file run the following commands:
  - ▶ `cd $NCHOME/bin`
  - ▶ `./nco_igen`

Then, from a terminal window, in the \$NCHOME/bin directory run the `./nco_igen` command.

## Final step to create the object server

- To initialize the object server's parameters you must run the `nco_dbinit` command.
- As the Omnibus administrator go to the `$OMNIHOME/bin` directory and run the command `./nco_dbinit -server <and name of your new object server>` as seen in the following commands:
  - ▶ `cd $OMNIHOME/bin`
  - ▶ `./nco_dbinit -server NEWOBJSERV`
- Other options are also available at the command-line.

The final step in creation is to initialize the Object Server's parameters. You must run the `nco_dbinit` command. As the Omnibus administrator go to the `$OMNIHOME/bin` directory and run the command `./nco_dbinit -server space <and name of your new object server>`.

## Steps to start the object server

- Once you have created the object server you can start the object server in one of two ways:
  - ▶ Manually start the object server.
    - Command-line command
    - Manually launched as an inactive process automation object
  - ▶ Use process automation to automatically start the object server.

Once you have created the Object Server you can start the Object Server in one of two ways. You might manually Start the Object Server from a command-line command or manually launch as an inactive process automation object. As an alternative you might use Process Automation to automatically start the Object Server.

## Manually starting the object server

- Manually starting an object server from the command line is accomplished using the `nco_objserv -name (YOUR OBJECT SERVER NAME)` command.

```
▶ [omni721#frosty ~]$ cd $OMNIHOME/bin
```

```
▶ [omni721#frosty etc]$ ./nco_objserv -name NEWOBJSERV &
```

Manually starting an Object Server from the command line is accomplished using the `nco_objserv -name (YOUR OBJECT SERVER NAME)` command. You must perform this as an OMNibus Administrator from the `$OMNIHOME/bin` directory.

## Starting object server through process automation

- Object servers can be started both manually and automatically with process automation. For detailed information about starting an object server with process automation refer to:
  - ▶ IBM Education Assistant module OMNIBUS 7.2.1 automation
    - “process automation to launch external actions”

Object Servers can be started both manually and automatically with process automation. For detailed information about starting an Object Server with process automation refer to:

IBM Education Assistance module

OMNIBUS 7.2.1 Automation

“Process Automation to launch external actions”

## Training roadmap for *Netcool Tivoli OMNIbus*

[http://www.ibm.com/software/tivoli/education/edu\\_prd.html](http://www.ibm.com/software/tivoli/education/edu_prd.html)

For further training refer to the link,  
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