Stage 4 of 4: Testing Your Installation of MATLAB® Distributed Computing Server™ 4.2 with a Job Manager

This procedure verifies that your parallel computing products are installed and configured correctly.

Step 1: Verify the Network Connection

To verify the network connection from the client computer to the job manager computer, follow these instructions.

Note In these instructions, *matlabroot* refers to the directory where MATLAB® is installed on the client computer. Do not confuse this with the MDCS cluster computers.

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1 On the client computer where Parallel Computing Toolbox™ is installed, open a DOS command window (for Windows® software) or a shell (for UNIX® software) and go to the control script directory.

    cd *matlabroot*\toolbox\distcomp\bin (for Windows)

    cd *matlabroot*/toolbox/distcomp/bin (for UNIX)

2 Run nodestatus to verify your configuration and connection. Substitute <JobManagerHost> with the host name of your job manager computer.

    nodestatus -remotehost <JobManagerHost>

If successful, you should see the status of your job manager and its workers. Otherwise, refer to the troubleshooting section of the MATLAB Distributed Computing Server System Administrator's Guide.

Step 2: Define a User Configuration

In this step you define a user configuration to use in subsequent steps.

1 Start the Configurations Manager from the MATLAB desktop by selecting **Parallel** > **Manage Configurations**.

2 Create a new configuration in the Configurations Manager dialog box by selecting **File** > **New** > **jobmanager**.

3 In the Job Manager Configuration Properties dialog box, provide text for the following fields:

    a Set the **Configuration name** field to `JobManagerTest`.

    b Set the **Description** field to `For testing installation with job manager.`

    c Set the **Job manager hostname** field to the name of the host on which your job manager is running. Depending on your network, this might be only a host name, or it might have to be a fully qualified domain name.

    d Set the **Job manager name** field to the name of your job manager, which you started earlier in Stage 2 of the installation instructions.

So far, the dialog box should look like this.
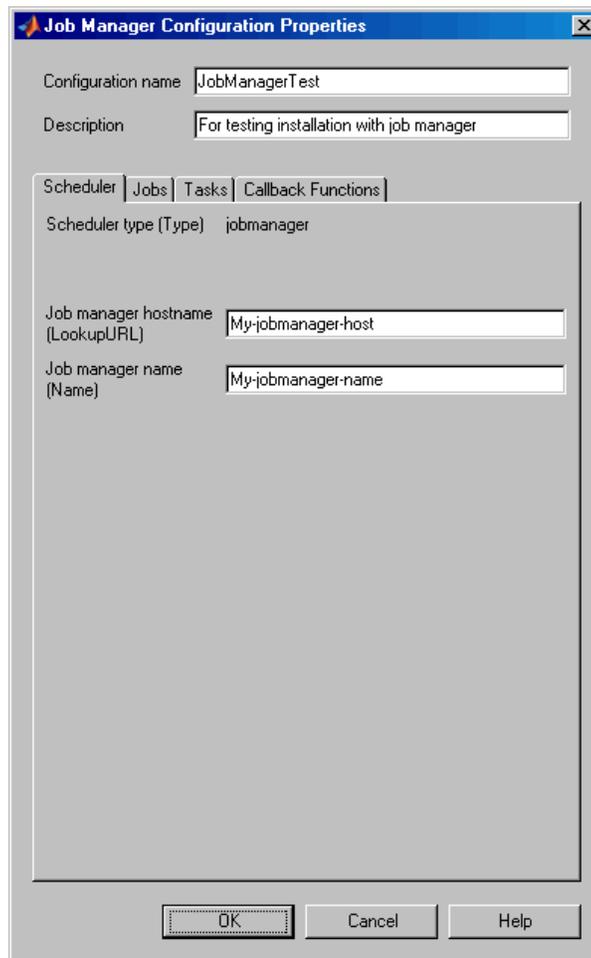
- **e** Click the **Jobs** tab.

- **f** For the **Maximum number of workers**, enter the number of workers for which you want to test your configuration.

- **g** For the **Minimum number of workers**, enter a value of 1.

4 Click **OK** to save your configuration.

Step 3: Validate the Configuration

In this step you verify your user configuration, and thereby your installation.

1 If it is not already open, start the Configurations Manager from the MATLAB desktop by selecting **Parallel** > **Manage Configurations**.

2 Select your configuration in the dialog box listing.

3 Click **Start Validation**.

The validation results appear in the dialog box. The following figure shows a configuration that passed all validation tests.
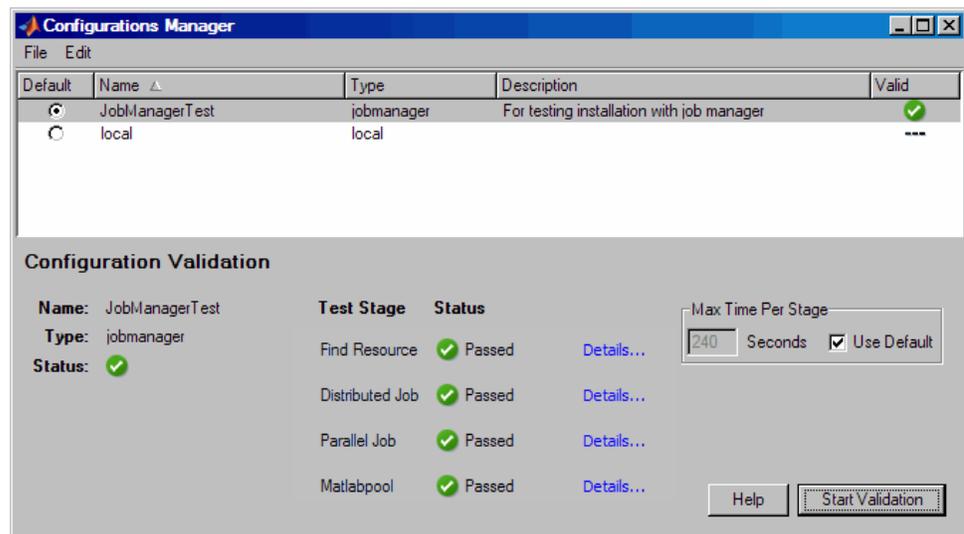
Note If your validation does not pass, contact the MathWorks install support team listed at the bottom of this page.

If your validation passed, you now have a valid configuration you can use in other parallel applications. You might now want to make any modifications to your configuration appropriate for your applications, such as `MaximumNumberOfWorkers`, etc. To save your configuration for other users, select **File > Export**, and save your file in a convenient location. Then later, when running the Configurations Manager from a MATLAB client session, other users can import your configuration by selecting **File > Import**.