



Troubleshooting

The following sections describe the major areas in the Cisco IP Solution Center installation in which troubleshooting might be necessary:

- [Unable to Find the Hostname, page D-1](#)
- [Multiple ISC Instances with the Same TIBCO Rendezvous Port, page D-1](#)
- [Known Installation Issues, page D-3](#)

Unable to Find the Hostname

Symptom

Cannot find hostname.

Recommended Action

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| Step 1 | If you cannot find the hostname, check the <code>/etc/nsswitch.conf</code> file to determine how the hostname is resolved. |
| Step 2 | If you are using DNS, use <code>nslookup <machine name></code> to check if it is working properly. |
| Step 3 | If it is not working properly, you need a system administrator to fix the DNS entry. |
| Step 4 | If you are not using DNS, be sure there is an entry for your machine in the <code>hosts</code> file in the <code>/etc</code> directory. |
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Multiple ISC Instances with the Same TIBCO Rendezvous Port

Symptom

You might not see any error messages, but you might see inconsistencies with events and tasks that you have just created.

Recommended Action

You might have more than one ISC server on the same subnet of a LAN, in which case, multiple instances of the ISC server will have the same TIBCO Rendezvous port. To fix this problem, you must ensure that the TIBCO port has a unique value.

To change the value for the TIBCO port, follow these steps:

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- Step 1** From the terminal window where the WatchDog is running, stop the WatchDog with the following command:
- ```
stopwd -y
```
- Step 2** Use a text editor to open the **etc/install.cfg** file.
- Step 3** Change the TIBCO\_PORT variable to the desired value.  
The default value for the TIBCO\_PORT variable is 7530.
- Step 4** To update all the dependent files with the new TIBCO port value, run the **applycfg.sh** command.
- Step 5** **startdb**
- Step 6** **initdb.sh**
- Step 7** **stopdb -y**
- Step 8** **ps -e | grep rvr**  
The returned result is the process id for the rvr process.
- Step 9** **kill -9 <process id>**  
where: <process id> is the returned process from [Step 8](#).
- Step 10** **rm -f \$ISC\_HOME/tmp/rvr.isc.store**
- Step 11** **rvrd -store \$ISC\_HOME/tmp/rvr.isc.store**
- Step 12** **startwd**
- Step 13** Run the following multiple line Java command:
- ```
java -classpath $VPNSC_HOME/resources/java/classes/common:\
$VPNSC_HOME/thirdparty/rv/lib/rvconfig.jar:\
$VPNSC_HOME/thirdparty/rv/lib/tibrvj.jar:\
$VPNSC_HOME/thirdparty/rv/lib/tibrvjweb.jar:\
com.cisco.vpnsc.install.RvrCfg <tibco_port> <server> isc
```
- where:
- <tibco_port> is the desired port specified in [Step 3](#).
- <server> is the server name, for example: **server1.cisco.com**.
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Known Installation Issues

Known issues and solutions are as follows:

Symptom 1

Out of disk space.

Recommended Action

The error looks something like the following:

```
ISC 3.2 will be installed in /var/isc-3.2
>Copying files ...
>Copying sybase...
>tar:./shared/jre_1.3.1_solaris_sun_sparc/lib/rt.jar: HELP - extract
>write error
>Error copying Sybase
```

If you see an error like this, it is likely due to the server running out of disk space.

To verify what space is available, run the command `df -k <install directory>`.

See *Cisco IP Solution Center Installation Guide* for the disk drive space recommendation:

http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/isc/3_2/install/index.htm

Symptom 2

The Installation utility GUI never displays.

Recommended Action

This problem should be accompanied with a Java stack dump.

Step 1 Run the following command to check for the \$DISPLAY environment variable being set:

`echo $DISPLAY.`

If you use the secure shell (ssh), then this will be set up and managed for you.

If you manually change the \$DISPLAY environment variable in an SSH environment, the easiest recovery method is to log off and reestablish the SSH connection.

Step 2 To set the DISPLAY environment variable do the following:

a. For the K or Bourne shell:

```
export DISPLAY=<machine name>:0.0
```

b. For the C-shell:

```
setenv DISPLAY=<machine name>:0.0
```

Symptom 3

Cannot run command scripts.

Recommended Action

If the command scripts are not running or cannot be found, it usually means that the ISC environment has not been sourced.

- For the C-shell: **source \$ISC_HOME/bin/vpnenv.csh**
- For the K-shell and Bourne-shell: **. \$ISC_HOME/bin/vpnenv.sh**

Symptom 4

Could not find temporary files.

Recommended Actions

If you receive an error that says the temporary file could not be created or found, it usually means the location used to write the temporary file is write-protected or out of disk space.

The two places that ISC uses for temporary files are **/tmp** and **/var/tmp**.

- Make sure both locations have write permission by doing a long list on the directories (**ls -la**). The directory should have wide open permissions: **drwxrwxrwx**.
- There is another temporary file problem that can arise, especially in cases where there have been previous aborted installation attempts—existing temp files might be left by previous installations. If this is the case, it is best to clean out all the files in the temp directories after aborted installation attempts.

Symptom 5

Running **install.sh** fails.

Recommended Action

Running **install.sh** can fail due to the following reasons:

1. You are not root.

Although it is possible to install as non-root if you have appropriate permissions in the target directory, this will still have problems since only root can write to **/etc/init.d** where the startup scripts reside. Therefore, it is easier to install as root.

2. You do not have enough disk space in the target directory. To find out the available disk space, issue the following command:

```
df -k <target directory>
```

3. You do not have enough disk space in the **/tmp** directory. Issue the command **df -k /tmp** to determine the available disk space for **/tmp**.

4. The **PATH** and **LD_LIBRARY_PATH** environment variables are incorrect.

Make sure your **PATH** and **LD_LIBRARY_PATH** environment variables are correct.

Example:

```
PATH=/usr/bin:/usr/local/bin
LD_LIBRARY_PATH=/usr/lib:/usr/local/lib
export PATH LD_LIBRARY_PATH
```

- a. Alternatively, start a clean root shell with this command:

```
env - ksh
```

- b. Then issue this command:

```
./install.sh /opt/isc32 master
```

Symptom 6

ISC does not start on reboot.

Recommended Action

Do the following:

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- Step 1** Install ISC as the root user.
If you install as root, **init.d** has a script to start the Watchdog.
If you do not install as root, you do not get the startup on reboot feature.
- Step 2** To become root, enter the following command:
- ```
su root
```
- Step 3** Get the **isc.tmpl** file from the installation media.
- Step 4** Edit the following fields in **isc.tmpl**:
- ```
OWNER=_owner - replace _owner with the username whom owns isc
ISC_HOME=_vpnsc_home - replace _vpnsc_home with the isc directory
```
- Step 5** Rename **isc.tmpl** as **isc** and then enter the following commands:
- ```
mv isc /etc/init.d
chmod 744 /etc/init.d/isc
```
- Step 6** Create the following symbolic links to **isc**:
- a. `cd /etc/rc1.d`  
`ln -s /etc/init.d/isc K98ISC`
  - b. `cd to /etc/rc2.d`  
`ln -s /etc/init.d/isc K98ISC`
  - c. `cd to /etc/rc3.d`  
`ln -s /etc/init.d/isc S99ISC`
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