



# Backup and Restore

This chapter describes Backup and Restore management tasks for Internal Directory mode.

The Backup and Restore function allows you to backup directory data (configuration templates, device and user information, and so forth) to a remote location.

## Backup Procedure

**Step 1** Log into the Cisco Configuration Engine 1.5 user interface.

**Step 2** Go to **Tools > Data Manager > Schedule Backup**.

The backup information dialog box appears (see [Figure 20-1](#)).

**Figure 20-1 Backup Schedule Parameters**

BACKUP SCHEDULE PARAMETERS

<b>Backup server name</b> <small>(This is the server name, where all the backup files will be put.)</small>	Ftp <input type="text"/> <small>Warning: If you select tftp, make sure that a file with the name "backup-cnscce-(hostname).tar.gz" is already present with 777 permissions in the tftp enabled directory on the tftp server. Here (hostname) is the output of 'hostname' command on the local machine. Just a blank file will also do. For eg. backup-cnscce-myie2100.cisco.com.tar.gz</small>
<b>Username</b> <small>(Username to login to Backup FTP server.)</small>	<input type="text"/>
<b>Password</b> <small>(Password to login to Backup FTP server.)</small>	<input type="password"/>
<b>Directory</b> <small>(This is the subdirectory where the files will be put. Absolute path is required.)</small>	<input type="text"/>
<b>Enable Log File Management</b> <small>(When enabled, log files will be backed up on the server and deleted from the IE2100.)</small>	No <input type="text"/>
<b>Backup Schedule</b> <small>(At the designated time (hh:mm) on a specified day, the background scripts will run as a cron job)</small>	<input checked="" type="radio"/> <b>Daily At</b> <input type="text" value="00:00"/> (hh:mm) <input type="radio"/> <b>Weekly every</b> <input type="text" value="Saturday"/> <input type="text" value="At 00:00"/> (hh:mm) <input type="radio"/> <b>Monthly on day</b> <input type="text" value="1"/> <input type="text" value="At 00:00"/> (hh:mm)

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**Step 3** Use the drop-down arrow to select **FTP**, or **TFTP**.




**Note** If you select TFTP, the Username, Password, and Directory fields are disabled.

**Step 4** To specify where you want the backup data to be stored, enter the FTP server name in the **FTP Server Name** field.

Table 20-1 shows valid values for these fields.

**Table 20-1 Valid Values for Backup Schedule Parameters**

Attribute	Description	Valid Values
FTP/TFTP	Select TFP or TFTP type.  When you select TFTP server, the Userame, Password and Directory fields are disabled because the TFTP server does not require a username and password, and all the files will go into the TFTP root directory.  Read the Warning (in red) on the GUI page to learn more about setup requirements to use TFTP.  <b>Warning :</b> If you select TFTP, make sure that a file with the name <i>backup-cnsce-{hostname}.tar.gz</i> is already present with <b>777</b> permissions in the TFTP enabled directory on the TFTP server. Here, <i>{hostname}</i> is the output of <b>hostname</b> command on the local machine. Just a blank file will also do. For example: <i>backup-cnsce-myie2100.cisco.com.tar.gz</i>	From drop-down
Server name	Server name where all backup files will be put.	a-z A-Z 0-9 -(hyphen) _ (under-score) (period)
Username	Login username for the FTP server.	a-z A-Z 0-9 -(hyphen) _ (under-score) (period)
Password	Password for FTP server.	
Directory	Subdirectory into which all backup files will be put.	Absolute path
Enable Log File Management	determines whether files will be deleted from Cisco 2116 system after backup.	From drop-down list
Backup Schedule	Date and time fields.	As required

- Step 5** To specify the username to log into the FTP server, enter a valid username in the **Username** field.
- Step 6** To specify the password to use to log into the FTP server, enter a valid value in the **Password** field.
- Step 7** To specify the subdirectory where the data file is put, enter the absolute path in the **Directory** field.
- Step 8** Choose whether to **Enable Log File Management**.
- Step 9** To specify the backup schedule, complete the fields in the **Backup Schedule** pane.
-  **Note** The time base for the Cisco 2116 system should be set to Coordinated Universal Time (UTC).
- Step 10** To cancel this task, click **Cancel**.
- Step 11** To schedule the backup operation, click **Backup**.

## Data Restore Procedure

- Step 1** Log into the Cisco 2116 Intelligence Engine.
- Step 2** Type **datarestore** at the command line, then press **Enter**.
- Step 3** Provide inputs to following prompts:

### Notes

Sample user inputs are shown in **bold** text.

### FTP Server

```
root@i336s6 root]# datarestore
Entering Data Restore section
Type ctrl-c to exit

Enter Transfer Protocol (FTP[F] or TFTP[T]): F
Enter FTP server (hostname.domainname or IP address): 10.77.27.17
Enter username used for FTP server: root
Enter FTP password: *****
Re-enter FTP password: *****
Enter absolute pathname of backup file on FTP server: /backup.tar
```

### TFTP Server

```
[root@i336s6 root]# datarestore
Entering Data Restore section
Type ctrl-c to exit

Enter Transfer Protocol (FTP[F] or TFTP[T]): T
Enter the TFTP server (hostname.domainname or IP address): 10.77.27.17
Enter pathname of backup file on the TFTP server(relative to tftp root dir):
backup.tar
```

**DNS Server**

```
[root@i336s6 root]# datarestore
Entering Data Restore section
Type ctrl-c to exit

Enter Transfer Protocol (FTP[F] or TFTP[T]): T
Enter the TFTP server (hostname.domainname or IP address): test.cisco.com
Enter DNS server IP address: 10.77.27.1
Enter pathname of backup file on the TFTP server(relative to tftp root dir):
backup.tar
```

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**Definitions**

**FTP:** File transfer protocol.

**FTP/TFTP Server:** <hostname.domainname>, or IP address, of the FTP/TFTP server on which the backup file is located.

**DNS Server:** IP address of the DNS server. This appears when you enter a hostname instead of an IP address for the server prompt.

**FTP Username:** username used for FTP server.

**FTP Password:** password used to log into the FTP server.

**Absolute pathname of backup file on FTP/TFTP server:** fully specified path of the backup file stored on the FTP server, or TFTP server (relative to TFTP root directory).