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[Installing Web Conferencing in a Load Balancing Configuration](#)

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The installation is completed in six parts:

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- [Installing Additional Internal Web Servers](#)
- [Copying GUIDS from the Internal to the External Web Server](#)
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## Installing the First Internal Web Server

### Before You Begin

- Read [Installing Web Conferencing](#) and have the instructions available to assist you with this section.
- Complete the [Preparing the Internal Cluster](#) section.

### To Install the First Internal Web Server

1. Install Cisco Unified MeetingPlace Web Conferencing on the first internal machine.
  - ◆ For Server Location, choose **Internal (Full Access)** .
  - ◆ For Database Location, choose the applicable option:

- ◇ If there is a full SQL Server installed elsewhere, choose **Existing remote server** .
  - ◇ To have the installer install SQL Server 2000 on this machine for you, choose **Local server** .
  - ◆ When you reach the final installer window, choose to reboot your computer later, then click **Finish** .
2. Configure the shared storage for this web server by performing the following sub-steps:
1. Open your web browser to access the Web Conferencing home page.
  2. Use your System Manager-level user ID and password to sign in.
  3. Click **Admin** , then **Shared Storage** .
  4. For Enabled, click **Yes** .
  5. For Shared Storage Path, enter the path of the shared storage location that you determined in [Step 2](#) of the [To Prepare the Internal Cluster](#).
  6. For Content Cache Size, enter a value between 0 and 100 for the percentage of total disk space to use to cache content on the local server.
  7. In the appropriate fields, enter a domain, username, and password for a Windows account that will be used to access the shared storage location. If the account is a local account, enter the machine name in the Domain field. The Windows password cannot contain the characters < or >.
- Note:** All Cisco Unified MeetingPlace Web Conferencing services will be configured to "Log On As" the account you choose in this sub-step.
8. Re-enter the password in the Confirm Password field.
  9. Click **Save Changes** .
  10. To put the changes into effect, click Reboot Server, then click **OK** to confirm the reboot. The server shuts down and restarts.
- Note:** It may take several hours for the Cisco Unified MeetingPlace Web Conferencing services to come back up. They cannot start again until all the files in the C:\Program Files\Cisco Systems\MPWeb\Meetings and C:\Program Files\Cisco Systems\MPWeb\WebConf\content\7 folders are transferred to the shared storage device. These folders can possibly contain more than 20 GB of data each, so the downtime can be significant.
3. Continue with the next task as applicable:
- ◆ If you have additional internal web servers, see the [Installing Additional Internal Web Servers](#) section.
  - ◆ If you do not have additional internal web servers, see the [Copying GUIDS from the Internal to the External Web Server](#) section.

## Installing Additional Internal Web Servers

### Before You Begin

Complete the [Installing the First Internal Web Server](#) section.

### Restrictions

When installing two or more web servers that share a single database and point to the same Cisco Unified MeetingPlace Audio Server system, the MeetingPlace Server hostname that you specify during the installation of all web servers must match. By default if the MeetingPlace Server hostnames do not match, a second site is created with a WebConnect configuration.

### To Install Additional Internal Web Servers

1. Copy the **GUIDS.reg** file from the first internal web server to the next machine in your internal cluster:
  1. Copy the *drive:* \Program Files\Cisco Systems\MPWeb\GUIDS.reg file from the first server.
  2. Place the **GUIDS.reg** file in the next web server's *drive:* \Temp directory.
  3. On the next web server, double-click the **GUIDS.reg** file to install it.
  4. When prompted to add the information from the GUIDS.reg file to the registry, click **OK**.
2. Install Cisco Unified MeetingPlace Web Conferencing on the next machine in your internal cluster.
  - ◆ For Server Location, choose **Internal (Full Access)**.
  - ◆ For Database Location, choose **Existing remote server** and specify the SQL Server that you used in the [Installing the First Internal Web Server](#) section.
3. Configure the shared storage for this web server by performing the following sub-steps:
  1. On the Web Conferencing server, open a web browser and browse to **http://localhost:8002**. When you access this URL on the server, you are automatically signed in to Cisco Unified MeetingPlace Web Conferencing as a technician.
  2. Click **Admin**, then **Shared Storage**.
  3. In the appropriate fields, enter a domain, username, and password for a Windows account that will be used to access the shared storage location. If the account is a local account, enter the machine name in the Domain field.
 

**Note:** All Cisco Unified MeetingPlace Web Conferencing services will be configured to "Log On As" the account you choose in this sub-step.
  4. Re-enter the password in the Confirm Password field.
  5. Click **Save Changes**.
  6. To put the changes into effect, click Reboot Server, then click **OK** to confirm the reboot. The server shuts down and restarts.
 

**Note:** It may take several hours for the Cisco Unified MeetingPlace Web Conferencing services to come back up. They cannot start again until all the files in the C:\Program Files\Cisco Systems\MPWeb\Meetings and C:\Program Files\Cisco Systems\MPWeb\WebConf\content\7 folders are transferred to the shared storage device. These folders can possibly contain more than 20 GB of data each, so the downtime can be significant.
4. Repeat this procedure until you have installed all of your internal web servers.
5. Continue with the [Copying GUIDS from the Internal to the External Web Server](#) section.

## Copying GUIDS from the Internal to the External Web Server

The GUIDS entries for site and system must match between internal and external web servers. Make sure that you run the GUIDS.reg file on each external web server before installing Cisco Unified MeetingPlace Web Conferencing.

**Caution!** You must complete this step before running the Web Conferencing installer on the external web server. If this step is skipped or completed incorrectly, Presentation mode will not work for internal users in external meetings, and recovering from this problem requires that you rebuild the SQL Server database.

### Before You Begin

Complete installing and configuring at least one internal Cisco Unified MeetingPlace web server.

**To Copy GUIDS from the Internal to the External Web Server**

1. Copy the **GUIDS.reg** file from the first internal web server (located in *drive:* \Program Files\Cisco Systems\MPWeb).
2. Place the **GUIDS.reg** file in the first external web server's *drive:* \Temp directory.
3. On the external web server, double-click the **GUIDS.reg** file to install it.
4. When prompted to add the information from the GUIDS.reg file to the registry, click **OK** .
5. Continue with the [Installing the First External Web Server](#) section.

## Installing the First External Web Server

**Before You Begin**

- Read [Installing Web Conferencing](#) and have it available to assist you with this section.
- Complete the [Preparing the External Cluster](#) section.
- Complete the [Copying GUIDS from the Internal to the External Web Server](#) section.

**Note:** The GUIDS entries for site and system must match between internal and external web servers. Make sure that you run the GUIDS.reg file on each external web server before installing Cisco Unified MeetingPlace Web Conferencing.

**To Install the First External Web Server**

1. Install Cisco Unified MeetingPlace Web Conferencing on the first web server in your external cluster.
  - ◆ For Server Location, choose **External (Limited Access)** .
  - ◆ For Database Location, choose the applicable option:
    - ◇ If the SQL Server is installed locally, choose **Local Server** .
    - ◇ If there is a full SQL Server installed elsewhere, choose **Existing Remote Server** .
  - ◆ When you reach the final installer window, choose to reboot your computer later, then click **Finish** .
2. Configure the shared storage for this web server by performing the following sub-steps:
  1. Open your web browser to access the Web Conferencing home page.
  2. Use your System Manager-level user ID and password to sign in.
  3. Click **Admin** , then **Shared Storage** .
  4. For Enabled, click **Yes** .
  5. For Shared Storage Path, enter the path of the shared storage location that you determined in [Step 2 of To Prepare the External Cluster](#).
  6. For Content Cache Size, enter a value between 0 and 100 for the percentage of total disk space to use to cache content on the local server.
  7. In the appropriate fields, enter a domain, username, and password for a Windows account that will be used to access the shared storage location. If the account is a local account, enter the machine name in the Domain field.
 

**Note:** All Cisco Unified MeetingPlace Web Conferencing services will be configured to "Log On As" the account you choose in this sub-step.
  8. Re-enter the password in the Confirm Password field.
  9. Click **Save Changes** .
  10. To put the changes into effect, click Reboot Server, then click **OK** to confirm the reboot. The server shuts down and restarts.

**Note:** It may take several hours for the Cisco Unified MeetingPlace Web Conferencing services to come back up. They cannot start again until all the files in

the C:\Program Files\Cisco Systems\MPWeb\Meetings and C:\Program Files\Cisco Systems\MPWeb\WebConf\content\7 folders are transferred to the shared storage device. These folders can possibly contain more than 20 GB of data each, so the downtime can be significant.

3. If you have additional external web servers, continue with the [Installing Additional External Web Servers](#) section.

If you do not have additional external web servers, continue with the [Linking the Internal and External Servers](#) section.

## Installing Additional External Web Servers

### Before You Begin

- Complete the [Installing the First External Web Server](#) section

### To Install Additional External Web Servers

1. Copy the **GUIDS.reg** file from the first external web server to the next external web server:
  1. Copy the *drive:* \Program Files\Cisco Systems\MPWeb\GUIDS.reg file from the first server.
  2. Place the **GUIDS.reg** file in the next web server's *drive:* \Temp directory.
  3. On the next web server, double-click the **GUIDS.reg** file to install it.
  4. When prompted to add the information from the GUIDS.reg file to the registry, click **OK** .  
**Note:** The GUIDS entries for site and system must match between internal and external web servers. Make sure that you run the GUIDS.reg file on each external web server before installing Cisco Unified MeetingPlace Web Conferencing.
2. Install Cisco Unified MeetingPlace Web Conferencing on the next external web server.
  - ◆ For Server Location, choose **External (Limited Access)** .
  - ◆ For Database Location, choose **Existing remote server** and specify the SQL Server used in the [Installing the First External Web Server](#) section.
  - ◆ When you reach the final installer window, choose to reboot your computer later, then click **Finish** .
3. Configure the shared storage for this web server by performing the following sub-steps:
  1. On the Web Conferencing server, open a web browser and browse to **http://localhost:8002**. When you access this URL on the server, you are automatically signed in to Cisco Unified MeetingPlace Web Conferencing as a technician.
  2. Click **Admin** , then **Shared Storage** .
  3. In the appropriate fields, enter a domain, username, and password for a Windows account that will be used to access the shared storage location. If the account is a local account, enter the machine name in the Domain field.  
**Note:** All Cisco Unified MeetingPlace Web Conferencing services will be configured to "Log On As" the account you choose in this sub-step.
  4. Re-enter the password in the Confirm Password field.
  5. Click **Save Changes** .
  6. To put the changes into effect, click Reboot Server, then click **OK** to confirm the reboot. The server shuts down and restarts.  
**Note:** It may take several hours for the Cisco Unified MeetingPlace Web Conferencing services to come back up. They cannot start again until all the files in the C:\Program Files\Cisco Systems\MPWeb\Meetings and C:\Program Files\Cisco Systems\MPWeb\WebConf\content\7 folders are transferred to the shared storage device. These folders can possibly contain more than 20 GB of data each, so the downtime can be significant.

4. Repeat this procedure until you have installed all the external web servers.
5. Continue with the [Linking the Internal and External Servers](#) section.

## Linking the Internal and External Servers

External meetings are held on an external web server so that users can access their meetings from the Internet. Rather than have all of your users log in to a particular external web server, configure automatic redirection of all external meetings from your internal web servers to a designated external web server.

The internal and external servers (or clusters of servers) each operate as completely separate units until you link them by configuring automatic redirection.

### Before You Begin

You must have properly installed Cisco Unified MeetingPlace Web Conferencing on all of your internal and external web servers.

### To Configure Redirection of External Meetings

1. From an internal web server, sign in to Cisco Unified MeetingPlace Web Conferencing.
2. From the Welcome page, click **Admin** , then **Web Server** .
3. From a blank Web Server Name field, enter the name of a new web server to represent your designated external web server.
4. For Hostname, enter the fully qualified domain name (FQDN) of your external web server (for example, *hostname.domain.com* ). If your web server is not in a Domain Name Server (DNS), enter the IP address instead. Note the following considerations:
  - ◆ You must be able to resolve this hostname from the internal web server.
  - ◆ If you plan to use SSL, make sure that the hostname on the SSL certificate resolves to the external web server's IP address.
  - ◆ If you plan to use SSL and a segmented DNS, make sure that the DNS name and the SSL certificate name differ.
5. To add this web server to the database, click **Submit** .  
This server now appears as part of your list of web servers on the bottom portion of the page.
6. Return to the main Admin page and click **Site** .  
The Site administrative page appears.
7. Click the Site Name that represents your cluster of internal web servers. Note the following considerations:
  - ◆ There should be only one site indicated on this page unless you deployed WebConnect.
  - ◆ Site Name should have a default value equal to the NetBIO name of the first web server you installed in this cluster.
8. For DMZ Web Server, choose the external web server you just added.  
This configures the internal web servers in this cluster to point to this external web server in the case of external meetings.
9. Click **Submit** .  
**Tip:** The external cluster does not require any additional SQL Server database configurations.
10. (Optional) If one of your web servers has Cisco Unified MeetingPlace Video Integration activated, review the information on load balancing video-enabled systems in the [About Installing Web Conferencing in a Load Balancing Configuration for Video-Enabled Systems](#) section.

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