

# Cloning a MetaFrame XP Server

If your organization uses system imaging utilities to clone standard server configurations, with a few adjustments you can also clone MetaFrame XP servers.

## To prepare a MetaFrame XP server for imaging

**Important** Do not attempt to image the first server in a farm using **Microsoft Access** for the data store. Do not attempt to image a server with an SSL certificate installed.

**CAUTION** Using Registry Editor incorrectly can cause serious problems that can require you to reinstall the operating system. Citrix cannot guarantee that problems resulting from incorrect use of Registry Editor can be solved. Use Registry Editor at your own risk.

Make sure you back up the registry before you edit it. If you are running Windows NT, make sure you also update your Emergency Repair Disk.

1. During MetaFrame XP installation, use the default IMA zone name and be sure to enter the appropriate product code.
2. After the installation is completed and the server restarts, use the Services icon in Control Panel to stop the Independent Management Architecture service and set it to start manually. On Windows 2000 Server, the Services icon is in the Administrative Tools folder in the Control Panel folder.

**Important** If your MetaFrame XP server is running Windows 2000, you must close the **Services** window after stopping the service.

3. Delete the following values from the Windows registry:

```
HKEY_LOCAL_MACHINE\Software\Citrix\IMA\Runtime\HostId
HKEY_LOCAL_MACHINE\Software\Citrix\IMA\Runtime\ImaPort
HKEY_LOCAL_MACHINE\Software\Citrix\IMA\Runtime\
MasterRanking
HKEY_LOCAL_MACHINE\Software\Citrix\IMA\Runtime\
PSRequired
HKEY_LOCAL_MACHINE\Software\Citrix\IMA\Runtime\RassPort
HKEY_LOCAL_MACHINE\Software\Citrix\IMA\Runtime\ZoneName
```

4. Image the server using the cloning software and then install the image on additional servers.
5. Change the Independent Management Architecture service to start automatically and start the service.

When you apply the image to new servers, the imaging tool must change the SID of the server to a unique value. You must also change the server name so that it is unique in the server farm.

#### **To configure MetaFrame XP on a newly imaged server**

1. Add the following registry key and set the value to the name of the server:

```
HKEY_LOCAL_MACHINE\Software\Citrix\IMA\ServerHost
```

2. Edit the Wfname.ini file on the root of the drive where you installed MetaFrame XP and replace the name with the name of the machine.

3. Use the Services icon in the Control Panel to set the Independent Management Architecture service to start automatically.

4. Restart the system.

5. If desired, obtain an SSL certificate for the server.

#### **! To image a server for rapid deployment with SQL Server or Oracle**

1. Follow the steps from the *MetaFrame XP Administrator's Guide* for installing the first MetaFrame XP server into the farm.

2. When the server is successfully restarted, log on to the console as a local or domain administrator.

3. Delete the Wfname.ini file, if it exists, from the root drive of the server.

4. Edit the Mf20.dsn file with Notepad or another text editor. By default, the DSN file is at %ProgramFiles%\Citrix\Independent Management Architecture.

For a Microsoft SQL Server installation, the Data Source Name (DSN) file will look similar to this:

```
[ODBC]
DRIVER=SQL Server
UID=SQL_USERNAME
DATABASE=NAME_OF_DATABASE
WSID=NAME_OF_MF_SERVER
APP=Citrix IMA
SERVER=NAME_OF_SQL_SERVER
```

Remove the following line:

```
WSID= NAME_OF_MF_SERVER.
```

The DSN now looks like this:

```
[ODBC]  
DRIVER=SQL Server  
UID=SQL_USERNAME  
DATABASE=NAME_OF_DATABASE  
APP=Citrix IMA  
SERVER=NAME_OF_SQL_SERVER
```

5. Save the changes to the DSN file.
6. Stop the IMA service and set the startup option to Manual.
7. If MetaFrame XPe components are installed, see the .Cloning on MetaFrame XPe Systems. on page 65.
8. Take the image of the server and then restart the server.

Deploy the image obtained.

**Important** It is important that some type of SID generation utility be executed when deploying Windows 2000 or Windows NT Terminal Services Edition images.

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### **! To verify that the server is added**

1. Set the Security ID of the server with the SID generator of choice.
2. Rename the new server with a unique name.
3. Manually start the IMA service and set the service to start automatically.
4. Verify that the server was successfully added to the farm by executing qfarm at a command prompt on any server in the farm. The newly imaged server will appear in the list of servers.