

# Installing Storage Tier Collectors

This section includes the following topics:

- [Defining the associated Oracle Precise for Storage](#)



The procedures describes in this chapter are the same for both the Oracle and SQL servers.

## Defining the associated Oracle Precise for Storage

### Handling the pre-installation tasks for EMC Storage

During the installation, Precise Agent Installer automatically checks if SYMAPI is installed, and which version (required is version 7.2 or higher). For more information, see the *How to install and verify EMC Solutions Enabler* in a Precise context technical note.

### Defining the associated Precise for Storage

To install Precise for Storage for an Oracle instance

1. Click **Add Instance**.
2. In the Technology field, click the drop-down menu and select "Storage."
3. In the Application field, click the drop-down menu and select the environment for your storage application.
4. Click **OK**. The "Storage Instance Installation" window opens.  
In the Storage Type field, "EMC" is automatically selected.
5. In the Server Name field, click the drop-down menu and select the server name where the agent is to be installed.
6. Click **Advanced**. The "Advanced" dialog box opens.
7. Select the EMC tab.
8. In the Database File field, browse for the EMC Storage Device database (symapi\_db.bin) (unless it has already been auto-detected).



This step is mandatory.

9. Select the "Enable Remote Gatekeeper" box, if you want to use this feature.
10. Enter the Server IP and Server Port in the respective fields.
11. If you are associating SQL Precise for Storage continue with Step 15.
12. Select the EMC ASM tab.
13. Select the "Enable Oracle ASM support for the EMC Storage agent" box, to enable Oracle ASM.
14. Select or enter the ASM Instance Name, ASM Instance Port, and ASM Instance Home (unless they have already been auto-detected). Enter the ASM user name and password.



The user must have system database administrator privileges.

15. When finished with either of the above options, click **OK**.

### Checking if Statistics Logging is enabled for CLARiiON

If CLARiiON is the attached storage media, the storage agent of Precise for Oracle or Precise for SQL Server needs to be able to run and gather storage array metrics from the CLARiiON on a periodic basis, and therefore Statistics Logging must be enabled via the CLARiiON software Navisphere.

To enable Statistics Logging in CLARiiON

1. Open Navisphere  
Typically this will require a user with Storage Administrator rights and the URL of the Navisphere software.
2. Right-click on the APM storage System and select **Properties**.
3. On the General tab, select **Statistics Logging**.
4. Click **Apply**.
5. Click **OK**.
6. Go to File>Save.
7. Click **Exit**.

### Handling pre-installation tasks for VMFS

For Symmetrix, Precise now supports native VMFS (VMWARE file system) for virtual storage, with the following prerequisites:

- Solutions Enabler 7.2 or higher.
- Enginuity 5874 or 5875 (for the Symmetrix Array OS).
- ESX 4.0 and higher.

- Authorization of the VM for the ESX server.

To authorize the VM for the ESX server, perform the following steps:

From the VM, execute the following command:

```
symcfg auth -vmware add -host <hostname> -username <username> -password <password> -namespace vmware/esxv2 -  
vmport 0
```

Where <hostname> is the ESX host, <username> is "ESX<root>," and <password> is "ESX<admin>" on the ESX host.

When the authorization is complete, rebuild the EMC DB by running the symcfg discover script on the VM.

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