

Oracle® Tuxedo System and Applications Monitor Plus Enterprise Manager for Oracle Tuxedo Deployment Guide



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Preface

This book discusses how to deploy the Enterprise Manager for Oracle Tuxedo on the Oracle Enterprise Manager Cloud Control system.

1

Prerequisites

The following prerequisites must be met before you deploy the Enterprise Manager for Oracle Tuxedo.

- Oracle Enterprise Manager Cloud Control 13.4.0.0.0 or higher is installed, Enterprise Manager Cloud Control Management Agent is installed, and required post-installation steps are performed. For more information, see [Enterprise Manager Cloud Control Documentation](#).
- Enterprise Manager software library is set up. The software library should be already set up automatically during installation.
- Enterprise Manager for Oracle Tuxedo package is imported to Enterprise Manager server. You can choose one of the following ways:
 - Set up the emcli tool. For more information, see <https://<Enterprise Manager console hostname>:<port>/em/console/emcli/download>. Then run the following command:
`emcli import_update -file=<Enterprise Manager for Oracle Tuxedo package absolute path> -omslocal`

By default, the Enterprise Manager for Oracle Tuxedo package is located in <TSAM Plus installation directory>/em/13.4.1.0.0_oracle.fmw.txdo_2000_0.opar.

Note

The import process will not successful if any problems arise in the software library setup process.

or

- From Enterprise Manager console, click **Setup** > **Extensibility** > **Self Update** in the upper right. Click **Plug-in** in the Type column and select **Oracle Tuxedo** in the list, then click **Download**.

2

Deploying Enterprise Manager for Oracle Tuxedo on Management Servers

Follow these steps to deploy Enterprise Manager for Oracle Tuxedo on management servers:

1. Log in to Enterprise Manager Cloud Control.
2. From the home page, navigate to **Setup > Extensibility > Plug-ins**
3. Click the **Middleware** folder to expand the list.
4. Highlight Enterprise Manager for Oracle Tuxedo from the list and click **Deploy on > Management Servers**.

3

Deploying Enterprise Manager for Oracle Tuxedo on Management Agents

Before Enterprise Manager Cloud Control can discover Oracle Tuxedo Domain targets, you must deploy Enterprise Manager for Oracle Tuxedo on management agents. Do the following steps:

1. Log in to Enterprise Manager Cloud Control.
2. From the home page, navigate to **Setup > Extensibility > Plug-ins**
3. Click the **Middleware** folder to expand the list.
4. Highlight Enterprise Manager for Oracle Tuxedo from the list and click **Deploy on > Management Agents**

Note

For more information, see the [Plug-in-manager](#) chapter in [Enterprise Manager Cloud Control Documentation Administrator's Guide](#).

4

Typical Deploy Scenarios

This section provides several typical deployment use scenarios to demonstrate how Enterprise Manager for Oracle Tuxedo is deployed in different circumstances.

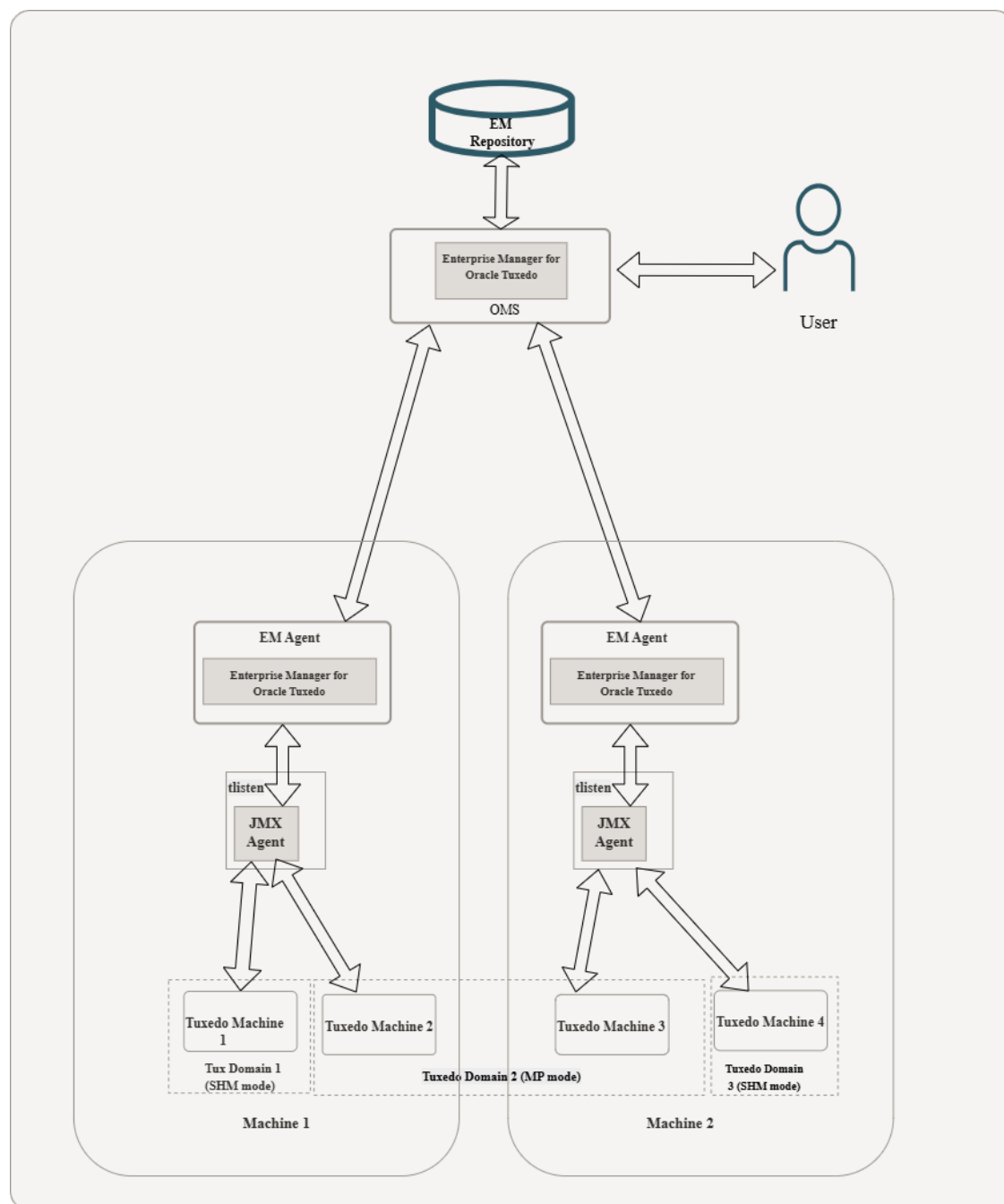
Note

For all the nodes involved in an Enterprise Manager for Oracle Tuxedo monitoring environment (including the machines on which Tuxedo applications, Enterprise Manager agents, Enterprise Manager OMS, and Enterprise Manager repository are running), it is highly recommended that you synchronize their clocks.

- [Basic Monitoring](#)
- [Remote Monitoring From Enterprise Repository Agent](#)
- [Multiple tlisten Processes on One Physical Machine](#)
- [Multiple Agents and Clients Connecting to One tlisten Concurrently](#)

4.1 Basic Monitoring

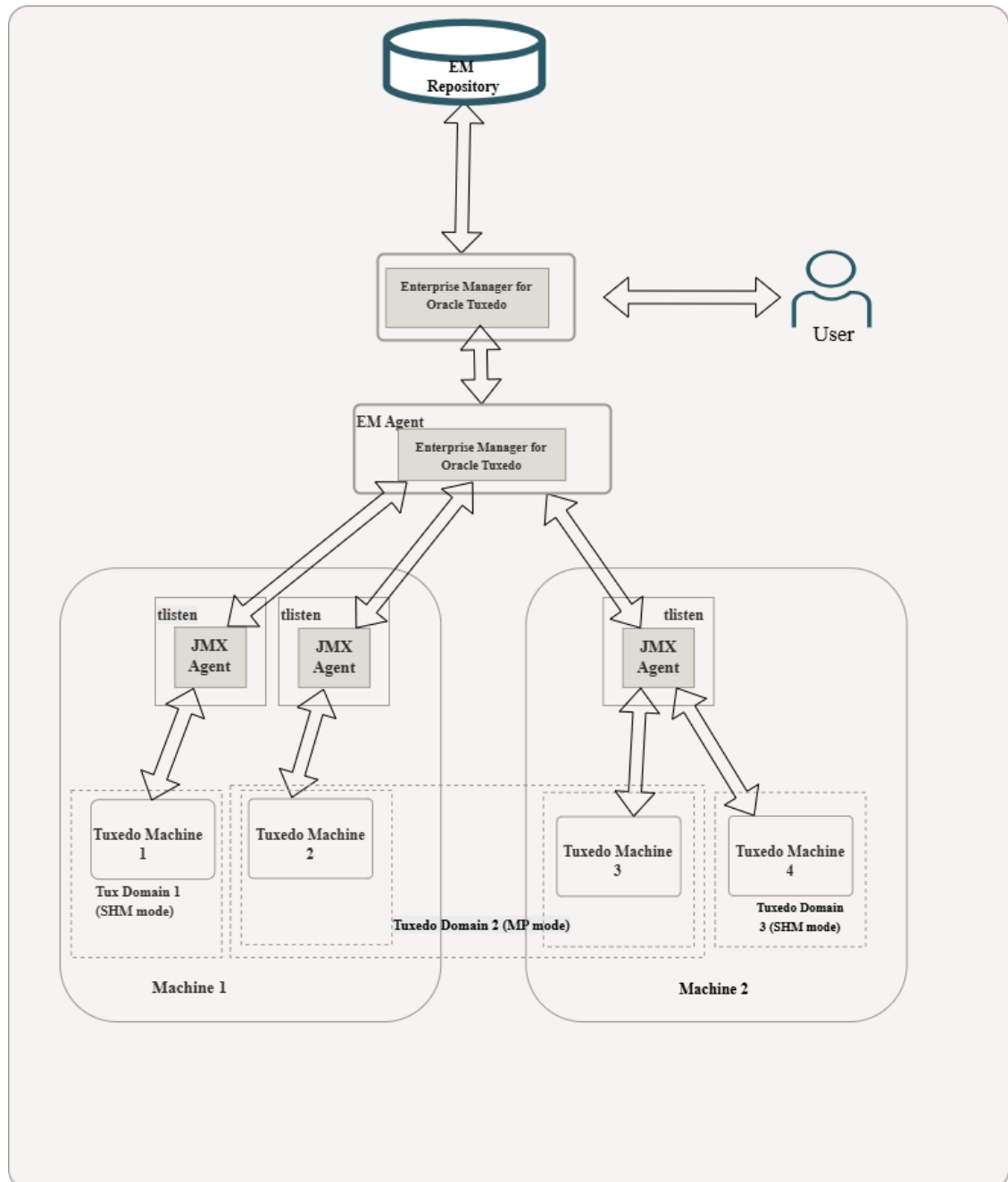
For performance and security considerations, if the Enterprise Repository agent supports the specific platform on which Tuxedo domains are running, it is recommended to deploy an Enterprise Repository agent on each physical machine that has Tuxedo domains monitored. The following figure shows a typical Enterprise Manager for Oracle Tuxedo deployment scenario:

Figure 4-1 Typical Enterprise Manager for Oracle Tuxedo Deployment Scenario

4.2 Remote Monitoring From Enterprise Repository Agent

The following figure shows a scenario where Enterprise Repository agent is monitoring Tuxedo domains remotely. This deployment topology is useful for platforms supported by Tuxedo rather than by Enterprise Repository agent.

Figure 4-2 Remote Monitoring From Enterprise Repository Agent



4.3 Multiple tlisten Processes on One Physical Machine

In some circumstances, you may need to deploy multiple `tlisten` instances on a physical machine for the following reasons:

- Security: Each `tlisten` process starts as a different user with different privileges.
- Administration: Each `tlisten` process represents a different department.

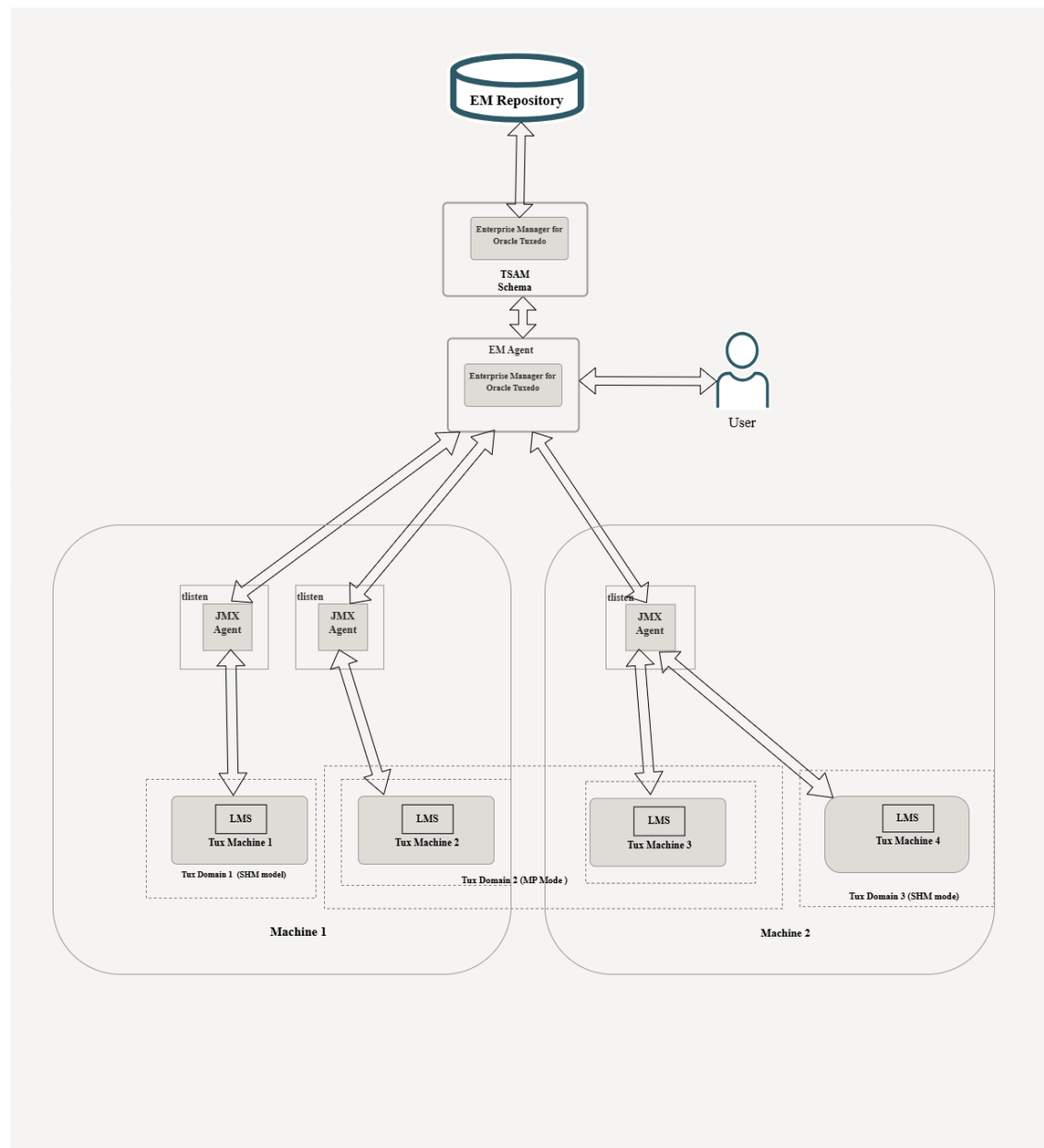
The following figure shows how to deploy multiple `tlisten` processes on a physical machine.

Note

tlisten process is able to interconnect with different Enterprise Repository agents respectively, no matter if it is running locally or remotely

The following figure illustrates Multiple tlisten Processes Running On a Physical Machine

Figure 4-3 Multiple tlisten Processes Running On a Physical Machine



4.4 Multiple Agents and Clients Connecting to One tlisten Concurrently

A tlisten process with JMX agent embedded is able to interconnect with multiple Enterprise Repository agents concurrently. The figure below shows a tlisten process running on *Machine 2* is connected and monitored by *EnterpriseManager Agent 1* and *EnterpriseManager Agent 2* concurrently.

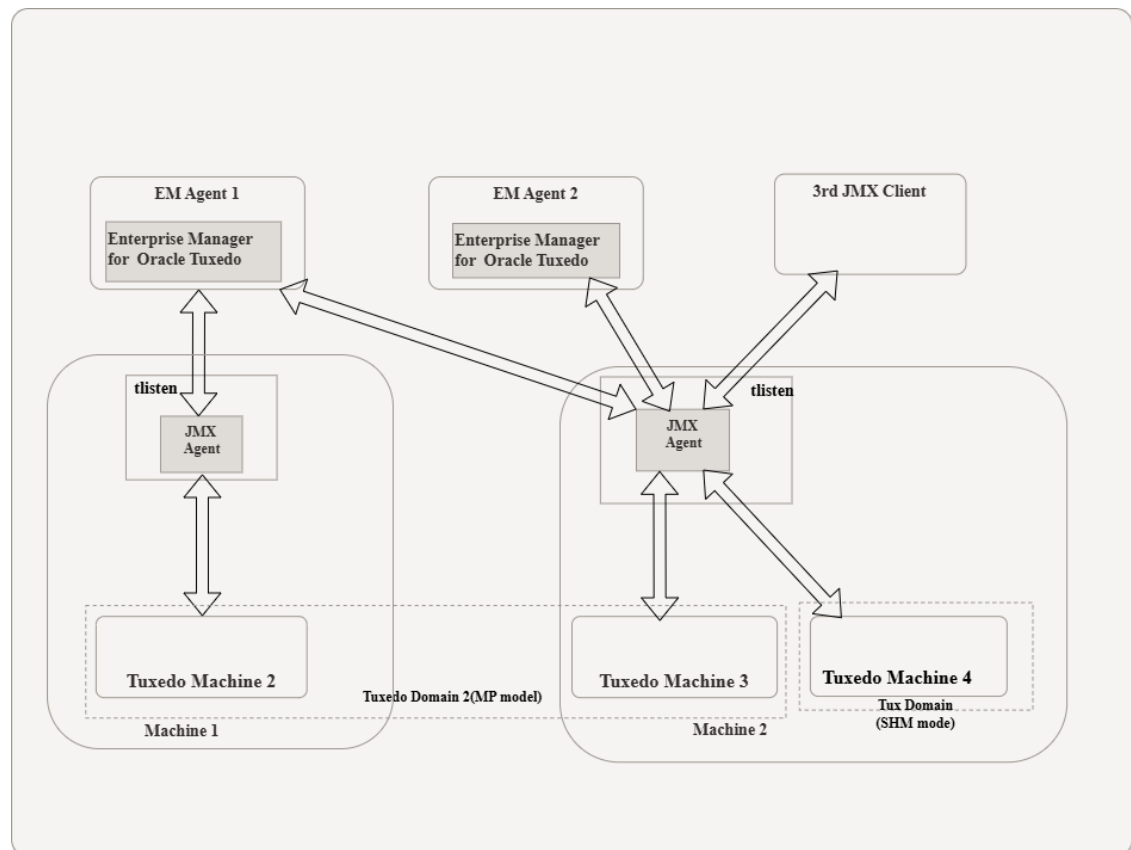
In this scenario, you can separate Enterprise Repository agents and Tuxedo Domains related to a tlisten process into two groups (for example, *EnterpriseManager Agent 1* monitors *Tux Domain 2* and *EnterpriseManager Agent 2* monitors Tux Domain 3).

You can also let Enterprise Manager Agent 1 and Enterprise Manager Agent 2 monitor both Tux Domain 2 and Tux Domain 3 at the same time.

Since JMX is a widely used and supported JRE standard, some third-party JMX clients or JMX connectors are potentially supported by Enterprise Manager for Oracle Tuxedo, which makes Tuxedo monitoring and management functionalities more flexible.

The following figure illustrates Multiple Agents and Clients Connecting to One tlisten concurrently:

Figure 4-4 Multiple Agents and Clients Connecting to One tlisten Concurrently



Note

In this scenario, once an active domain has been discovered by Enterprise Manager for Oracle Tuxedo, even if the domain is down afterwards, the Enterprise Manager for Oracle Tuxedo still can discover it (unless tlisten is rebooted).