

Oracle® Fusion Middleware

System Requirements and Specifications for Oracle Weblogic Server and Coherence



15c (15.1.1.0.0)
G32146-01
October 2025

ORACLE®

Oracle Fusion Middleware System Requirements and Specifications for Oracle Weblogic Server and Coherence, 15c (15.1.1.0.0)

G32146-01

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Preface

This document lists all the system requirements and the required specifications for the Oracle Fusion Middleware software.

Audience

In general, this document is intended for administrators of Oracle Fusion Middleware, who need to know the system requirements and specification details for the Oracle WebLogic Server and Coherence.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Documents

For more information, see the following documents in the Oracle Fusion Middleware documentation set:

- *Understanding Oracle Fusion Middleware*
- *Securing Applications with Oracle Platform Security Services*
- *High Availability Guide*
- *Understanding Oracle WebLogic Server*
- *Tuning Performance*
- *Administering Oracle SOA Suite and Oracle Business Process Management Suite*

- *Administering Oracle HTTP Server*
- *Administering Web Services*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

System Requirements and Specifications

This document contains system and platform-specific information for Oracle WebLogic Server and Coherence products.

Using This Document with the Certification Matrix and Product Installation Guides

This document is intended for use in conjunction with Oracle WebLogic Server and Coherence.

Consider the following pre-installation workflow:

Task 1 Find Out What is Certified

The Oracle WebLogic Server and Coherence certifications can be found in the table on the [Oracle Fusion Middleware Supported System Configurations](#) page. Find the .xls document that includes your products.

Oracle has tested and verified the performance of your product on all certified systems and environments; whenever new certifications occur, they are added to the proper certification document right away. New certifications can occur at any time, and for this reason the certification documents are kept outside of the documentation libraries and are available on Oracle Technology Network.

If you use My Oracle Support, you can reference **My Oracle Support Certifications**, which is a self-service certification application which provides a structured display of most common certification data. Go to

<https://support.oracle.com/>

and refer to the **Certifications** tab.

Task 2 Verify the Requirements of the Certification

This document should be used to verify that the requirements of the certification are met. For example, if the certification document indicates that your product is certified for installation on 32-Bit Oracle Linux 5, this document should be used to verify that your Oracle Linux 5 system has met the required minimum specifications, like disk space, available memory, specific platform packages and patches, and other operating system-specific items. This document is updated as needed and therefore also resides outside of the documentation libraries and is available on Oracle Technology Network.

Task 3 Install Your Software

After you have verified that your environment meets the requirements specified in both the certification documents and system requirements, you are ready to begin your installation. Your product installation guides contain the step-by-step instructions to get your product physically installed and configured on your system. These guides are available only from the documentation library (<https://docs.oracle.com/>) and therefore are not updated unless there is a subsequent product release. Both the certification and system requirement documents can be updated multiple times in between product releases, depending on whether or not new information is available.

Processor Requirements

Oracle WebLogic Server and Coherence requires a minimum 1-GHz CPU.

Java Development Kit (JDK) Requirements

To run installers in the 15c (15.1.1.0.0), you must have a certified JDK already installed on your system. On release, the certified JDK versions are 64bit 17.0.16+ and 64bit 21.0.8+. For information about the latest certified JDKs, refer to the certification document for your software version listed in Oracle Fusion Middleware Supported System Configurations page.

On release, the certified JDK versions are 64bit 17.0.12+ and 64bit 21.0.4+. For information about the latest certified JDKs, refer to the certification document for your software version listed in [Oracle Fusion Middleware Supported System Configurations](#) page.

Note

It is a best practice to use a separate JDK location than the one installed on the system. One that you can manage and maintain with the Fusion Middleware products. See, Doc ID 1492980.1 **How to Install and Maintain the Java SE Installed or Used with FMW Products**. This ensures that the Oracle Fusion Middleware software is using the proper version of the JDK software.

General Memory and Disk Space Requirements

This section contains the general, minimum memory and disk space requirements for Oracle WebLogic Server and Coherence.

General Memory Requirements

The following sections provide general information about how to determine the amount of memory required to run the Oracle WebLogic Server and Coherence products you have purchased.

Minimum Memory Requirement for Installing Oracle WebLogic Server and Coherence

Unless otherwise noted, the following table lists the general minimum memory requirements for installing Oracle WebLogic Server and Coherence products.

Note

For the purposes of this document, memory requirements fall into two categories: **physical memory** (the amount of physical RAM installed on host) and the **minimum available memory**, which includes swap space in addition to the physical memory.

The memory requirements listed here are **minimum requirements**. The actual required memory will vary, depending upon the number of Managed Servers and the number of Oracle Fusion Middleware products you configure in the domains on each host. For some guidelines about determining the amount of memory required for a specific deployment, see [Using a Formula to Determine Memory Requirements for a Specific Deployment](#).

If you plan to install and configure a database instance on the same server, you should add at least an additional 2 GB of physical and 2 GB of available memory. For more information about memory requirements for the database, see the documentation for your database software version.

Table 1-1 Memory Requirements for Installing Oracle WebLogic Server and Coherence

Operating System	Minimum Physical Memory Required	Minimum Available Memory Required
Linux	4 GB	8 GB
UNIX	4 GB	8 GB
Windows	4 GB	8 GB

Using a Formula to Determine Memory Requirements for a Specific Deployment

Oracle Fusion Middleware installations vary widely in terms of how the Oracle WebLogic Server domains that support them are configured. For example, in some highly available production environments, you might have several Managed Servers running on each host. On the other hand, a single Administration Server, configured in a supported compact domain configuration is adequate for some development purposes.

To estimate the amount of required memory required to run Oracle WebLogic Server and Coherence in a particular deployment configuration, you can consider the amount of memory required by the operating system and other software, and then add a set amount of memory that will be required for each Java Virtual Machine (JVM) that you plan to configure on the host. Each Managed Server configured in a domain represents a single JVM instance.

Note

It is recommended that for the performance of a well-scaled production environment, the total Java heap memory allocations for all the Managed Servers per host add up to no more than 50% of the total physical memory on the host. If larger JVM heap sizes are required, or more managed servers are needed, physical memory should be increased accordingly.

In general, you can use the following formula as a general guideline to predict the minimum available memory requirements for Oracle WebLogic Server and Coherence:

```
3 GB of available memory for the operating system and other software
+ 3 GB of available memory for each Managed Server
-----
6 GB Total required available memory
```

It is important to note that this is a general guideline and the actual memory required for the operating system or a specific Managed Server can vary widely, depending on the resources and services targeted to the host or to the Managed Server.

Example: Determining Memory Requirements for a Development Environment

When determining memory required for a development environment, consider the type of domain you are using to test your applications.

If you are using an Administration Server for your development system you can use the general formula in [Using a Formula to Determine Memory Requirements for a Specific Deployment](#) as a guideline to determine the initial memory requirements.

```
3 GB for the operating system and other software
+ 3 GB for the Administration Server
-----
6 GB of available memory
```

Example: Determining Memory Requirements for a Production Environment

In a production environment, Oracle recommends as a best practice that you target products and services to specific Managed Servers and clusters, based on the resources required by the products and services.

For example, if you are planning to configure a Oracle WebLogic Server domain with an Administration Server and two Managed Servers, then you could use the following formula to determine the minimum required available memory:

```
3 GB for the operating system and other software
3 GB for the Admin Server
+ 6 GB for the two Managed Servers
-----
12 GB
```

Considering the Impact of Open File and Process Limits on Memory Requirements

When determining the memory requirements for a production environment, you should also take into account other operating system settings, including the number of file descriptors (open files) allowed per process and the number of processes required for each product or service that is targeted to a Managed Server.

For information about the recommended minimum open file and process limits for Oracle Fusion Middleware, see [Setting the Open File Limit and Number of Processes Settings on UNIX Systems](#).

Temporary Disk Space Requirements

The installation program uses a temporary directory into which it extracts the files that are needed to install the software on the target system. During the installation process, your temporary directory must contain sufficient space to accommodate the compressed Java Runtime Environment (JRE) bundled with the installation program and an uncompressed copy of the JRE that is expanded into the temporary directory. The extracted files are deleted from the

temporary directory after the installation process. The files in the temporary directory require approximately 2.5 times the space that is ultimately required for the installation.

By default, the installation program uses the following temporary directories:

- Windows platforms—directory referenced by the TMP system variable
- UNIX platforms—system-dependent temporary directory

Note

If you do not have enough temporary space to run the installation program, you are prompted to specify an alternate directory or exit the installation program.

To make sure that you have adequate temporary space, you may want to allocate an alternate directory for this purpose by doing one of the following (depending on your operating system):

- On Windows operating systems, set the TMP system variable to a directory of your choice.
- Run the installation program from the open command line as administrator and include the `-Djava.io.tmpdir=tmpdirpath` option, replacing *tmpdirpath* with the full path of the directory you want to designate as a temporary storage area for the installation program.

For example, to set up the temporary directory while running the Oracle WebLogic Server and Coherence installer for Windows, run the following command:

```
java -Djava.io.tmpdir=C:\Temp -jar wls_15.1.1.0.0.jar
```

Product-Specific Memory and Disk Space Requirements

This section provides memory and disk space requirements for specific Oracle Fusion Middleware products:

Oracle Universal Installer Requirements

This section contains prerequisite information for the Oracle Universal Installer (OUI). The requirements in this section must be met in order for the installer to start:

Startup Requirements

The items in [Table 1-2](#) are verified as the installer is being started:

Table 1-2 Oracle Universal Installer Startup Requirements

Category	Accepted or Minimum Values
Platforms	For a complete list of supported platforms, refer to Oracle Fusion Middleware Supported System Configurations page, as described in Using This Document with the Certification Matrix and Product Installation Guides .
CPU Speed	At least 300MHz.
Monitor	At least 256 colors (this is a requirement for the graphical mode installer only).
Swap Space	At least 512MB.

Table 1-2 (Cont.) Oracle Universal Installer Startup Requirements

Category	Accepted or Minimum Values
JDK	See Java Development Kit (JDK) Requirements for more information about JDK verification on your system.
Temp Space	At least 300MB.

Note

The temporary space noted here is in addition to the temporary space required for installer extraction as mentioned in [Temporary Disk Space Requirements](#).

Modifying the SHMMAX Parameter on Linux Operating Systems

If you are running Oracle Universal Installer on a certified Linux operating system, you must modify the value of the SHMMAX kernel parameter to avoid seeing errors generated by the Oracle Universal Installer.

Note

The following examples are for Linux operating systems. Consult your operating system documentation to determine the commands to be used on your system.

To set the SHMMAX kernel parameter:

1. Change the value of SHMMAX to 4294967295 by including the following line in `/etc/sysctl.conf`:
`kernel.shmmax = 4294967295`
2. Activate the new SHMMAX setting by running the command:
`/sbin/sysctl -p`
3. Start the Oracle Universal Installer and install your software.

Oracle WebLogic Server and Coherence Disk Space Requirements

[Table 1-3](#) lists the disk space requirements for Oracle WebLogic Server and Coherence.

Table 1-3 Oracle WebLogic Server and Coherence Disk Space Requirements

Installation Type	Disk Space Required
Coherence Installation	890 MB
WebLogic Server Installation	913 MB

Table 1-3 (Cont.) Oracle WebLogic Server and Coherence Disk Space Requirements

Installation Type	Disk Space Required
Complete Installation	1061 MB

Network Requirements

Typically, the computer on which you want to install Oracle WebLogic Server and Coherence is connected to the network. The computer has local storage to store the Oracle Fusion Middleware installation and also contains a display monitor and DVD drive (optional).

This section describes how to install Oracle Database on computers that do not meet the typical scenario. It describes the following cases:

Guidelines for a Correct Format of Entries in the /etc/hosts File

To ensure that both forward lookup (find the IP address given the hostname) and reverse lookup (finding the hostname given the IP address) return the same results, make sure your /etc/hosts file is formatted correctly using the following guidelines:

- The host name may contain only alphanumeric characters, hyphen, and period. The name must begin with an alphabetic character and end with an alphanumeric character.
- Host names should be specified as fully qualified host names (host name with the appended domain name).
- Lines cannot start with a blank space or tab character, but fields may be separated by any number of space or tab characters.
- Comments are allowed and designated by a pound sign (#) preceding the comment text.
- Trailing blank and tab characters are allowed.
- Blank line entries are allowed.
- Only one host entry per line is allowed.

For example: 11.111.11.11 server.example.com server

Understanding IPv6 and Oracle WebLogic Server and Coherence

Oracle WebLogic Server and Coherence supports Internet Protocol Version 6 (IPv6.) Among other features, IPv6 supports a larger address space (128 bits) than IPv4 (32 bits), providing an exponential increase in the number of computers that can be addressable on the Web.

An IPv6 address is expressed as 8 groups of 4 hexadecimal digits. For example:

2001:0db8:85a3:08d3:1319:8a2e:0370:7334

Oracle WebLogic Server Plug-ins Support IPv6

Oracle WebLogic Server Web Server plug-ins support IPv6, beginning with the 11g release.

Understanding IPv6 Support by Topology

[Table 1-4](#) shows the supported topologies for IPv4 and IPv6 (dual-stack means that the host is configured with both IPv4 and IPv6):

Table 1-4 Supported IPv6 Topologies

Topology	Description
Topology A	This topology includes: • Oracle Database on an IPv4 protocol host • Oracle WebLogic Server on a dual-stack host • Clients on an IPv4 protocol host • Clients on an IPv6 protocol host
Topology B	This topology includes: • Oracle Database on an IPv4 protocol host • One or more of Oracle WebLogic Server or Fusion Middleware Control on dual-stack hosts • Oracle HTTP Server with <code>mod_wl_ohs</code> on an IPv6 protocol host
Topology C	This topology includes: • Database, such as MySQL, that supports IPv6 on an IPv6 protocol host • Oracle WebLogic Server on an IPv6 protocol host • Clients on an IPv6 protocol host
Topology D	This topology includes: • Oracle Database on an IPv4 protocol host • One or more of Oracle WebLogic Server or Fusion Middleware Control on dual-stack hosts • Clients on an IPv4 protocol host • Clients on an IPv6 protocol host
Topology G	This topology includes: • Oracle Database on an IPv4 protocol host • One or more of Oracle WebLogic Server or Fusion Middleware Control on an IPv4 protocol host • Oracle HTTP Server with <code>mod_wl_ohs</code> on a dual-stack host • Clients on an IPv6 protocol host

Configuration Requirements for Installing on a Non-Networked Computer

You can install your Oracle Fusion Middleware product on a non-networked computer, such as a laptop. Because a non-networked computer has no access to other computers, you have to install all the components that you need on the computer.

In addition, you must follow the instructions in [#unique_42](#) to install a loopback adapter and modify the `hosts` file on your system.

UNIX Operating System Requirements

This section contains system requirement information for UNIX operating systems.

In some cases, a particular platform may be de-supported for use with Oracle WebLogic Server and Coherence products. While this particular platform's requirements may remain in this document for legacy purposes, it would no longer be listed in the certification information and would no longer be considered a *certified* platform.

See, [Using This Document with the Certification Matrix and Product Installation Guides](#).

All packages listed are minimum versions.

The following topics are covered in this section:

General UNIX Operating System Requirements

This section contains the following topics:

Enabling Unicode Support

Your operating system configuration can influence the behavior of characters supported by Oracle WebLogic Server and Coherence products.

On UNIX operating systems, Oracle highly recommends that you enable Unicode support by setting the LANG and LC_ALL environment variables to a locale with the UTF-8 character set. This enables the operating system to process any character in Unicode. [Table 1-5](#) describes these environment variables.

Note

Ensure that the required locales for the UTF-8 character set are installed on the host computer. This is a prerequisite for the Oracle Business Intelligence software.

Table 1-5 Language Environment Variables on UNIX Operating Systems

Variable	Description
LANG	This environment variable sets the installation default locale. For example: setenv LANG en_US.UTF-8
LC_ALL	This environment variable overrides the value of the LANG environment variable and the values of any other LC_* environment variables. For example: setenv LC_ALL en_US.UTF-8

To check your current locale settings, use the `locale` command on your system. Below is an example:

```
locale
LANG=en_US.UTF-8
LC_CTYPE=en_US.UTF-8
LC_NUMERIC=en_US.UTF-8
LC_TIME=en_US.UTF-8
LC_COLLATE=en_US.UTF-8
LC_MONETARY=en_US.UTF-8
LC_MESSAGES=
LC_PAPER="POSIX"
LC_NAME="POSIX"
LC_ADDRESS="POSIX"
LC_TELEPHONE="POSIX"
LC_MEASUREMENT="POSIX"
LC_IDENTIFICATION="POSIX"
LC_ALL=
```

If the operating system is configured to use a non-UTF-8 encoding, Oracle Fusion Middleware components may function in an unexpected way. For example, a non-ASCII file name can make the file inaccessible and cause an error. Oracle does not support problems caused by operating system constraints.

In a design-time environment, if you are using Oracle JDeveloper, select **Tools -> Preferences -> Environment -> Encoding -> UTF-8** to enable Unicode support.

Setting the Open File Limit and Number of Processes Settings on UNIX Systems

Note

The following examples are for Linux operating systems. Consult your operating system documentation to determine the commands to be used on your system.

For more information, see the following topics:

Viewing the Number of Currently Open Files

You can see how many files are open with the following command:

```
/usr/sbin/lsof | wc -l
```

To check your open file limits, use the commands below.

C shell:

```
limit descriptors
```

Bash:

```
ulimit -n
```

Setting the Operating System Open File and Processes Limit

To change the Open File Limit:

1. Log in as root and edit the following file:
`/etc/security/limits.conf`
2. Add the following lines to the `limits.conf` file.

```
* soft nofile 4096
* hard nofile 65536
* soft nproc 2047
* hard nproc 16384
```

The `nfiles` values represent the open file limit; the `nproc` values represent the number of processes limit.

3. Save the changes, close the `limits.conf` file.
4. Make sure the same values are added to the `90-nproc.conf` file; otherwise, the values in the `90-nproc.conf` file can override the values in the `limits.conf` file.
5. Reboot the host computer.

Linux Operating System Requirements

[Table 1-6](#) lists the platform, operating system, package, and patch information for Linux operating systems that are either currently supported or were supported in a previous release.

Use the following links to go directly to the row of your choice:

- x86-64 [Oracle Linux 9 \(UL2+\) and RHEL Linux 9 \(UL2+\)](#)
- x86-64 [Oracle Linux 8 \(UL6+\) and Red Hat Linux 8 \(UL6+\)](#)

Table 1-6 Minimum Requirements for the Linux Operating System

Processor	Operating System Version	Required Packages	Required Kernel Version
x86-64	Oracle Linux 9 (UL4+) and RHEL Linux 9 (UL4+)	binutils-2.35.2-42.0.1.el9.x86_64 gcc-11.3.1-4.3.0.4.el9.x86_64 gcc-c++-11.3.1-4.3.0.4.el9.x86_64 glibc-2.34-100.0.1.el9_4.2.x86_64 glibc-devel-2.34-100.0.1.el9_4.2.x86_64 libaio-0.3.111-13.el9.x86_64 libaio-devel-0.3.111-13.el9.x86_64 libgcc-11.4.1-3.0.1.el9.x86_64 libstdc++-11.3.1-4.3.0.4.el9.x86_64 libstdc++-devel-11.3.1-4.3.0.4.el9.x86_64 libnsl-2.34-100.0.1.el9_4.2.x86_64 sysstat-12.5.4-7.0.1.el9.x86_64 motif-2.3.4-28.el9.x86_64 motif-devel-2.3.4-28.el9.x86_64 openssl-3.0.7-27.0.3.el9.x86_64 make-4.3-7.el9.x86_64 xorg-x11-utils-7.5-40.el9.x86_64 ksh-1.0.0-beta.1-3.0.1.el9.x86_64 libcap-2.48-9.el9_2.x86_64	Minimum supported versions include: Oracle Linux 9.2 with the Unbreakable Enterprise Kernel 7: 5.15.0-208.159.3.el9uek.x86_64 or later Red Hat Enterprise Linux 9.2: 5.14.0-284.30.1.el9_2.x86_64 or later

Note

Oracle recommends that you update at least one of the following packages:

Table 1-6 (Cont.) Minimum Requirements for the Linux Operating System

Processor	Operating System Version	Required Packages	Required Kernel Version
			t o t h e l a t e s t a v a i l a b l e v e r s i o n a n d r e l e a s e l e v e l .

See [How to Obtain the Required Kernel Version for Linux Operating Systems](#).

Table 1-6 (Cont.) Minimum Requirements for the Linux Operating System

Processor	Operating System Version	Required Packages	Required Kernel Version
x86-64	Oracle Linux 8 (UL6+) and Red Hat Linux 8 (UL6+)	binutils-2.30-113.0.1.el8.x86_64 gcc-8.5.0-16.0.1.el8_7.x86_64 gcc-c++-8.5.0-16.0.1.el8_7.x86_64 glibc-2.28-211.0.1.el8.x86_64 glibc-devel-2.28-211.0.1.el8.x86_64 libaio-0.3.112-1.el8.x86_64 libaio-devel-0.3.112-1.el8.x86_64 libgcc-8.5.0-16.0.1.el8_7.x86_64 libstdc++-8.5.0-16.0.1.el8_7.x86_64 libstdc++-devel-8.5.0-16.0.1.el8_7.x86_64 libnsl-2.28-211.0.1.el8.x86_64 sysstat-11.7.3-7.0.1.el8_7.1.x86_64 motif-2.3.4-18.el8.x86_64 motif-devel-2.3.4-18.el8.x86_64 openssl-libs-1.1.1k-7.el8_6.x86_64 make-4.2.1-11.el8.x86_64 xorg-x11-utils-7.5-28.el8.x86_64 ksh-20120801-257.0.1.el8.x86_64 libcap-2.48-4.el8.x86_64	Minimum supported versions include: Oracle Linux 8.6 with the Unbreakable Enterprise Kernel 7: 5.15.0-6.80.3.1.el8uek.x86_64 or later Red Hat Enterprise Linux 8.6: 4.18.0-372.26.1.0.1.el8_6.x86_64 or later

Note
Oracle recommends that you update the Oracle Linux system.

Table 1-6 (Cont.) Minimum Requirements for the Linux Operating System

Processor	Operating System Version	Required Packages	Required Kernel Version
			o t h e l a t e s t a v a i l a b l e v e r s i o n a n d r e l e a s e l e v e l .

See [How to Obtain the Required Kernel Version for Linux Operating Systems](#).

How to Obtain the Required Kernel Version for Linux Operating Systems

For default kernel information, see the Shipped Kernels Chapter in the release notes mentioned below. The Red Hat Compatible kernel and the Unbreakable Enterprise kernel (default kernel) mentioned for x86–64 are supported.

To identify the required Kernel version for each supported version of Oracle Linux, refer to the following resources:

- [Oracle Linux 8 Documentation Library](#)
- <https://docs.oracle.com/en/operating-systems/oracle-linux/9/>

Note

Some Oracle Linux 8 releases come with UEK 6 kernel by default. In that case, you must update the Unbreakable Enterprise Kernel to UEK 7. For more information, see [Unbreakable Enterprise Kernel Release 7 Update 3 - Release Notes \(Version 5.15.0-300\)](#).

Windows Operating Systems Requirements

This section contains the following information regarding Microsoft Windows operating systems:

Certified Windows Operating Systems

Refer to the certification document for 15c (15.1.1.0.0) on the [Oracle Fusion Middleware Supported System Configurations](#) page for the latest information on certified Windows operating systems.

Disabling Anti-Virus Software

If you encounter issues related to anti-virus software during your Oracle WebLogic Server and Coherence product installation, disable your anti-virus software for the entire duration of the installation. If the system is restarted before the installation is complete, ensure the anti-virus software was not restarted before continuing with the installation.

Anti-virus software can be re-enabled when the installation is complete.

Enabling User Account Control (UAC)

On Microsoft Windows operating systems, you must enable User Account Control (UAC) so that the correct permissions are applied to the `cwallet.sso` file.

To enable UAC:

1. Run `secpol.msc` from the command prompt.
2. Select **Security Settings > Local Policies > Security Options**.
3. Set the **User Account Control:Run all Administrator in Admin Approval Mode** option to enabled.
4. Restart the host.
5. Restart the servers.

Virtualization Requirements

Every Oracle WebLogic Server and Coherence product that is certified on Linux and Windows as physical operating system is also certified and supported when running as virtual guest on Oracle VM as long as the respective operating system is supported by Oracle VM.

See [Supported Virtualization and Partitioning Technologies for Oracle Fusion Middleware](#) on the Oracle Technology Network.

Finding a Certified Database

Refer to the certification document for 15c (15.1.1.0.0) on the [Oracle Fusion Middleware Supported System Configurations](#) page for the latest information on certified databases.