

Oracle® Argus Analytics

Minimum Security Configuration Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Preface

This preface contains the following sections:

- [Documentation accessibility](#)
- [Related resources](#)
- [Access to Oracle Support](#)
To receive support assistance, determine whether your organization is a cloud or on-premises customer. If you're not sure, use Support Cloud.

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>.

Related resources

All documentation and other supporting materials are available on the [Oracle Help Center](#).

Access to Oracle Support

To receive support assistance, determine whether your organization is a cloud or on-premises customer. If you're not sure, use Support Cloud.

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Minimum Security Configuration Guide

This guide describes essential security management options for the following applications:

- Oracle Argus Analytics
- Oracle Business Intelligence Enterprise Edition

This guide presents the following security guidelines and recommendations:

- [Configure Strong Password on the Database and WLS](#)
- [Close All Open Ports not in Use](#)
- [Disable the Telnet Service](#)
- [Disable Other Unused Services](#)
- [Check External Links Vulnerable to the Account Data](#)
- [Enable SSL for Oracle Business Intelligence Enterprise Edition](#)
- [Set Up Session Timeout in Oracle Business Intelligence Enterprise Edition](#)
- [Log Security Restrictions](#)
- [Create a New Security Realm](#)
- [Delete the MAPVIEWER Component in Oracle Business Intelligence Enterprise Edition](#)

Configure Strong Password on the Database and WLS

Although the importance of passwords is well-known, the following basic rule of security management is worth repeating:

Make sure all your passwords are strong passwords.

You can strengthen passwords by creating and using password policies for your organization.

For guidelines on securing passwords and for additional ways to protect passwords, refer to the *Oracle Database Security Guide* specific to the database release you are using. You should modify the following passwords to use your policy-compliant strings:

- Passwords for the database default accounts, such as *SYS* and *SYSTEM*.
- Passwords for the Weblogic Server default accounts, such as *weblogic*.
- Password for the database listener. If you do not configure the database listener to require an authorization password, you unnecessarily expose the underlying database service names to unauthorized individuals.

Close All Open Ports not in Use

Keep only a minimum number of ports open. You should close all ports that are not in use.

Disable the Telnet Service

The Oracle Argus Analytics application does not use the Telnet service. Telnet listens on port 23 by default. If the Telnet service is available on the Oracle Argus Analytics host machine, Oracle recommends that you disable Telnet in favor of Secure Shell (ssh).

Telnet, which sends clear-text passwords and user names through a login, is a security risk to your servers. Disabling Telnet tightens and protects your system security.

Disable Other Unused Services

In addition to not using Telnet, the Oracle Argus Analytics application does not use the following services or information for any functionality:

- **Simple Mail Transfer Protocol (SMTP)**— This protocol is an Internet standard for E-mail transmission across Internet Protocol (IP) networks.
- **Identification Protocol (identd)**— This protocol is generally used to identify the owner of a TCP connection on UNIX.
- **Simple Network Management Protocol (SNMP)**— This protocol is one method for managing and reporting information about different systems.

Therefore, restricting these services or information will not affect the Oracle Argus Analytics application. If you are not using these services for other applications, Oracle recommends that you disable these services to minimize your security exposure.

If you need SMTP, identd, or SNMP for other applications, be sure to upgrade to the latest version of the protocol to provide the most up-to-date security for your system.

Check External Links Vulnerable to the Account Data

In Oracle Argus Analytics, you can add customized links to the Home page, Dashboards, Report pages, and the Help icons. Any information that can be made available through a URL can be made accessible to Oracle Argus Analytics Onsite users.

In addition, your customized links support passing session parameters, such as login user ID and user role, to a URL. By passing these session parameters, you can create target Web pages that switch the content according to the user login ID, user role, study, and site. You can create links that access websites relevant to your business.

However, be aware that in some situations, such as links that access external websites, passing account data and session information may pose a security risk. In these cases, you can define the link to pass no session parameters to the URL.

Besides this, the parameters that are passed as part of the URL links should not be trusted by the URLs receiving them. They should be securely coded, including by verifying their identity.

Enable SSL for Oracle Business Intelligence Enterprise Edition

In this section:

- [Enable SSL](#)
- [Set Up a Secure Cookie on Oracle WebLogic Server](#)

Enable SSL

To enable SSL, refer to *Configuring SSL for Oracle Argus Analytics in Oracle Business Intelligence Enterprise Edition* in the *Oracle Argus Analytics Installation Guide*.

Set Up a Secure Cookie on Oracle WebLogic Server

Refer to the MOS Note **How to set up Secure Cookies on WebLogic Server** section (Doc ID 1267117.1) to set up the secure SSL cookie.

Set Up Session Timeout in Oracle Business Intelligence Enterprise Edition

To configure the user session timeout in Oracle Business Intelligence Enterprise Edition, refer to the documentation available for the *Oracle Business Intelligence (Oracle BI) on Fusion Middleware 12c (12.2.1.4) > System Administrator's Guide for Oracle Business Intelligence Enterprise Edition > Section 5 Managing Performance Tuning and Query Caching > Using Fusion Middleware Control to Set the User Session Log-Off Period*.

<https://docs.oracle.com/middleware/bi12214/biee/BIESG/GUID-94B30F1B-69F3-49DC-91D0-59C2CAFEC6A6.htm#BIESG226>

Log Security Restrictions

Query logging level defines the exposure of database queries to Oracle Business Intelligence Enterprise Edition users. By default, each user account's Logging Level is set to 0 (zero), which is no logging. Implement the following steps to set the levels for a user:

1. Open BI Administration tool, and click **Manage > Identity**.
2. Double-click the name of the user to select, and update the logging level in the pop-up menu.
3. Enter the following information in the Logging Level:
 - a. **Level 0**—No Logging
 - b. **Level 1**—Logged details are SQL statements, query response durations, user id, session id, request id.

- c. **Level 2**—Everything Logged in level 1 with additional information such as repository name, business model name, subject area name, no of rows returned, etc.
- d. **Level 3**—Everything Logged in level 2 with additional information such as logical query plan, purged cache, etc.
- e. **Level 4**—Everything Logged in level 3 with additional information of query execution plan.
- f. **Level 5**—Everything Logged in level 4 with detailed query execution plan

Create a New Security Realm

A security realm can optionally include Identity Assertion, Auditing, and Certificate Registry providers. If your new security realm includes two or more providers of the same type (for example, more than one Authentication provider or more than one Authorization provider), you need to determine how these providers should interact with each other.

Custom Authorization and Role Mapping providers may or may not support parallel security policy and role modification, respectively, in the security provider database.

If your custom Authorization and Role Mapping security providers do not support parallel modification, the Oracle WebLogic Server Security framework can enforce a synchronization mechanism that results in each application and module being placed in a queue and deployed sequentially. To do this, set the **Deployable Provider Synchronization Enabled** and **Deployable Provider Synchronization Timeout** controls for the realm.

Delete the MAPVIEWER Component in Oracle Business Intelligence Enterprise Edition

Oracle Business Intelligence Enterprise Edition Mapviewer component comes with some demo code.

Hence, it is recommended that you delete the Mapviewer component by using the following steps:

1. Login to the Oracle Business Intelligence Enterprise Edition Administrator Console.
2. Navigate to **Deployments > Control** tab, and click the **Next** hyperlink till the Mapviewer application is displayed.
3. Select the check box against the deployed **Mapviewer** application [Mapviewer].
4. Click the **Stop > When Work Completes** button to shutdown the Mapviewer application.
5. When the operation completes:
 - a. Click **Lock & Edit**, and navigate to the **Configuration** tab.
 - b. Continue click on the hyperlink till the Mapviewer application appears.
 - c. Select the **Mapviewer** application [Mapviewer] check box, and click **Delete** to remove the application from the Domain Configuration.

- d. Click **Yes** to confirm.
6. Activate the pending changes by clicking **Activate Changes** to completely delete the Mapviewer application.