

Oracle® Adaptive Access Manager
Database Installation Guide for SQL Server 2005
10g (10.1.4.3.0)

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Preface

The Oracle® Adaptive Access Manager Database Installation Guide for SQL Server 2005 provides information about installing the Adaptive Access Manager schema into SQL Server 2005. Access to the Adaptive Access Manager schema is a requirement of the Adaptive Access Manager Application Server, which hosts the Adaptive Strong Authenticator and the Adaptive Risk Manager.

Note that the Adaptive Manager Access Manager schema needs to be installed into SQL Server 2005 before proceeding to the installation of the proxy.

Documentation

The Oracle Adaptive Access Manager 10g documentation includes the following:

- The Oracle® Adaptive Access Manager Native Integration Guide, which provides information on natively integrating the client portion of the Adaptive Access Manager solutions. In a native integration, the client application invokes the Oracle Adaptive Access Manager APIs directly and manages the authentication and challenge flows.
- The Oracle® Adaptive Access Manager Database Installation Guide (Oracle), which provides information about installing the Adaptive Access Manager schema into an Oracle database. Access to the Adaptive Access Manager schema is a requirement of the Adaptive Access Manager Application Server, which hosts the Adaptive Strong Authenticator and the Adaptive Risk Manager. Note that the Adaptive Manager Access Manager schema needs to be installed into the Oracle database before proceeding to the installation of the proxy.
- The Oracle® Adaptive Access Manager Database Installation Guide for SQL Server 2005, which provides information about installing the Adaptive Access Manager schema into SQL Server 2005. Access to the Adaptive Access Manager schema is a requirement of the Adaptive Access Manager Application Server, which hosts the Adaptive Strong Authenticator and the Adaptive Risk Manager. Note that the Adaptive Manager Access Manager schema needs to be installed into SQL Server 2005 before proceeding to the installation of the proxy.
- The Oracle® Adaptive Access Manager Proxy Integration Guide, which provides programming information and instructions on the installation of the Adaptive Access Manager proxy, one of the components in the Adaptive Access Manager UIO deployment. The Oracle Adaptive Access Manager's Universal Installation Option (UIO) offers multi-factor authentication to Web applications without requiring any change to the application code. The Oracle® Adaptive Access Manager Proxy and The Oracle® Adaptive Access Manager Proxy Web Publishing Configuration are guides specific to the UIO deployment.
- The Oracle® Adaptive Access Manager Proxy Web Publishing Configuration, which provides information on creating web publishing rules and listeners so that Web applications and the WebUIO can be accessible from the Internet. The Oracle Adaptive Access Manager's Universal Installation Option (UIO) offers multi-factor authentication to Web applications without requiring any change to the application code. The Oracle® Adaptive Access Manager Proxy and The Oracle® Adaptive Access Manager Proxy Web Publishing Configuration are guides specific to the UIO deployment.

- The Oracle® Adaptive Risk Manager Online Installation Guide, which provides information on the installation of the administration user interface of Oracle Adaptive Access Manager. Adaptive Risk Manager Online is the administration user interface of Oracle Adaptive Access Manager, a set of web-based administration tools that provides sophisticated fraud monitoring, analysis, and tracking by user location, device, time of day, type of transaction, as well as a host of other factors, and evaluates these factors against a set of customizable rules.
- The Oracle® Adaptive Access Manager LDAP Configuration Guide, which provides information on how to configure the Oracle Adaptive Access Manager Application Server to allow a user to be authenticated via a user identifier and password. The intended audience of this manual are users of WebLogic and Tomcat who want to use LDAP to set up users instead of the functionality in WebLogic and Tomcat.
- The Oracle® Adaptive Access Manager Import/Export Manual, which provides information importing groups, rule templates, and models from the Adaptive Access Manager schema.
- The Oracle® Adaptive Risk Manager Online Customer Care API Guide, which provides information about the Adaptive Risk Manager Online Customer Care API and provides the XML definition for each of the APIs.
- The Oracle® Adaptive Access Manager Database Tables Archiving and Purging Procedure, which provides information on the purge and archive scripts in the Oracle Adaptive Access Manager Database Tables of Microsoft SQL Server 2005. The procedure to trigger the scripts and information on verification and validation of script results are also provided.
- The Oracle® Adaptive Access Manager SQL Server Maintenance Guide, which provides instructions to set up The Oracle Adaptive Access Manager Maintenance Plan to purge and archive scripts in the Oracle Adaptive Access Manager database tables of Microsoft SQL Server 2005. The manual also discusses in detail how to trigger the scripts and provides information on the verification and validation of script results.
- The Oracle® Adaptive Risk Manager™ Administrator's Guide, which provides step-by-step instructions for creating and managing groups, creating models that contain rules, and customizing and managing rules.
- The Oracle® Adaptive Risk Manager™ Dashboard and Reporting Guide, which provides detailed instructions on how to use the dashboard and reporting functionality within the Oracle® Adaptive Risk Manager Online. The Oracle® Adaptive Risk Manager Online includes a dashboard that provides a high-level overview of users and devices that have generated alerts and the alerts themselves, and it contains a comprehensive collection of reports on users, locations, devices, and security alerts.
- The Oracle® Adaptive Risk Manager™ Customer Care Administration Guide, which provides information on creating new customer cases and administering them.

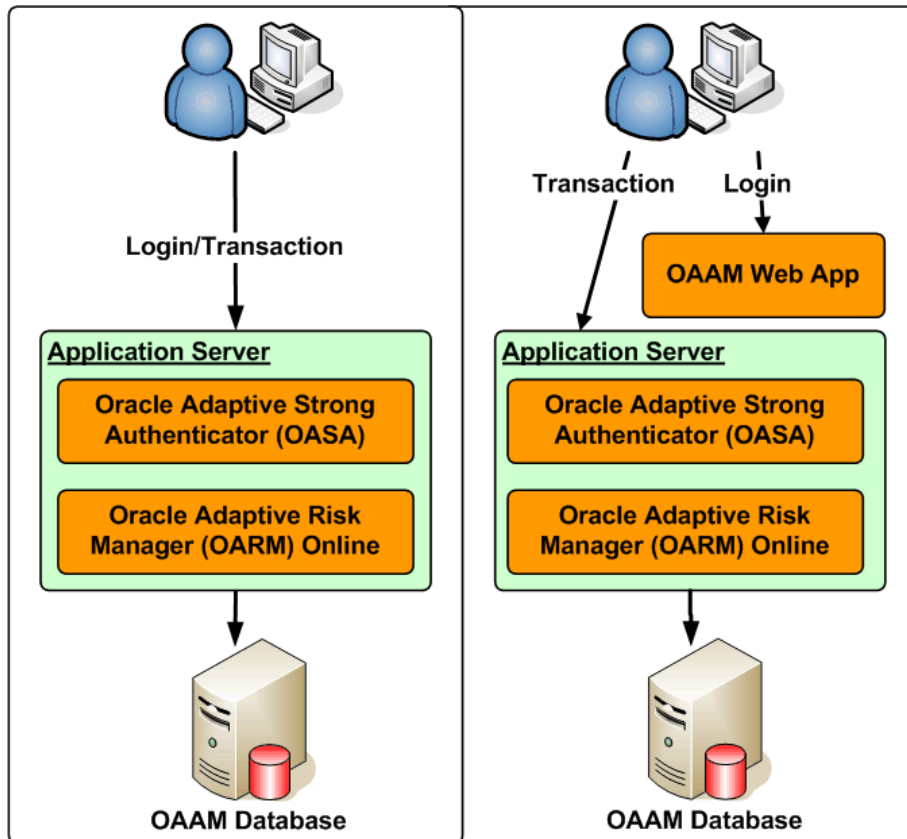
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Overview

The Oracle Adaptive Access Manager Application Server which hosts Adaptive Risk Manager Online and/or Adaptive Strong Authenticator products needs access to the database server that contains the Adaptive Access Manager schema and it needs to be populated with some initial data. The Adaptive Access Manager Application Server accesses the Adaptive Access Manager Database through database access properties defined in the `bharosa_server.properties` file of the Adaptive Access Manager Application Server.

Figure 1 - Deployment Overview



This document provides the steps and information about the scripts to be run for installation and initialization of the Adaptive Access Manager Database on SQL Server 2005.

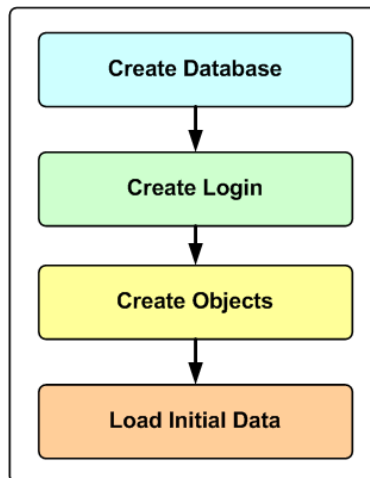
Installation Steps

Installing and initializing the Adaptive Access Manager Database schema is a four-step process.

Refer to the “Prerequisites” section, to ensure that you have completed the preliminary steps before using the scripts.

For information on running the scripts, refer to the “Troubleshooting” section at the end of this document.

Figure 2 - Steps for installing and initializing Adaptive Access Manager Database



Prerequisites

Ensure the following pre-installation tasks have been completed before you install and initialize your database.

1. Create the directories for the database files. For example: x:\sqldata
2. Update the 010_cr_bharosa_db.sql with the directory path for the database using the same path that you used in step 1.
3. Optionally, you can change the database name. If you change the name, you need to update all the files manually for the new database. The default database name is bharosa_db.

Scripts

Use the following SQL scripts to set up the database for the Adaptive Access Manager Database.

Create Database

010_cr_bharosa_db.sql - This script creates the **bharosa_db** database. Modify the location of data file prior to executing this script.

Create Login

020_cr_bharosa_db_login.sql - This script creates the database user called **brsamain** and grants the appropriate privileges. Update the script for the password in order to set a non-default password.

Create Objects

030_cr_bharosa_db_obj.sql - This script creates objects for the **bharosa_db** database.

Load Initialization Data

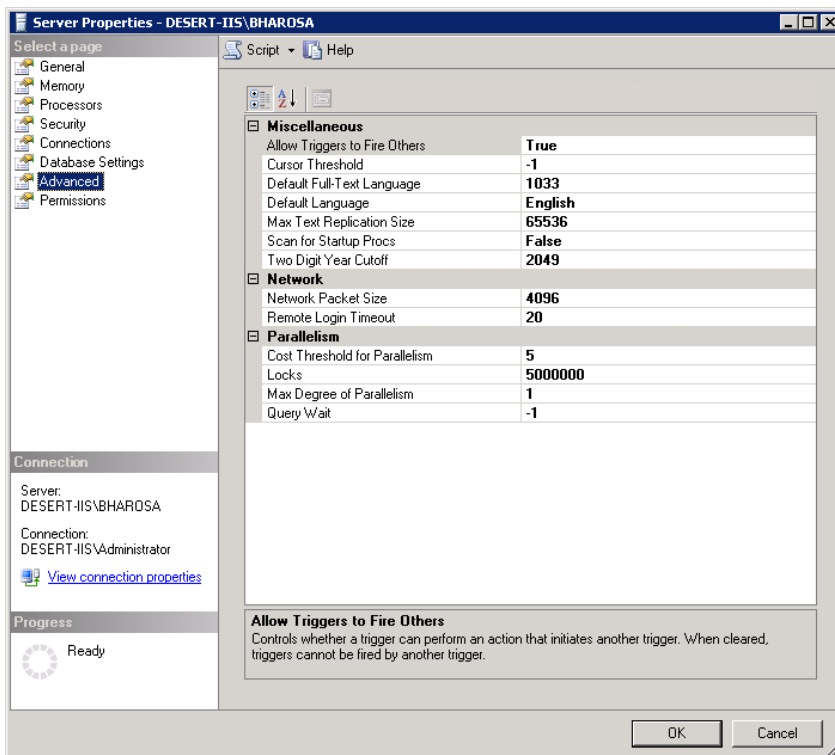
- **040_mssql_user_init.sql** - This script populates the user group as part of the database initialization.
- **050_mssql_policy_init.sql** - This script creates the default policy and policy set as part of the data base initialization process.
- **060_mssql_default_questions.sql** - This script creates default questions (seed data) as part of the database initialization process. The set of User Challenge Questions are loaded through this script. Note: This script is only included if you are using Challenge Questions.
- **070_mssql_scoringpolicy.sql** – This script will populate the seed data for challenge question scoring.
- **080_mssql_answerhints.sql** – This script will populate the default answer hints set.
- **090_mssql_validations.sql** – This script will populate the seed data for the validation of the challenge questions.
- **100_mssql_bharosaconfig.sql** – This script will populate the Bharosa configuration table with the Bharosa configuration.

Database Properties

The recommended properties to be set at the Instance Level are described below.

1. From the Start menu, select All Programs; then, Microsoft SQL Server Management.
2. Connect to MSSQL 2005 Database Server
3. Right click Instance > Properties

Figure 3 - Select the page Advanced from Server Properties



Advanced:

Number of Locks: 5000000

Max Degree of Parallelism: 1

Processors:

Maximum Worker Threads: 255

Troubleshooting

To run the scripts:

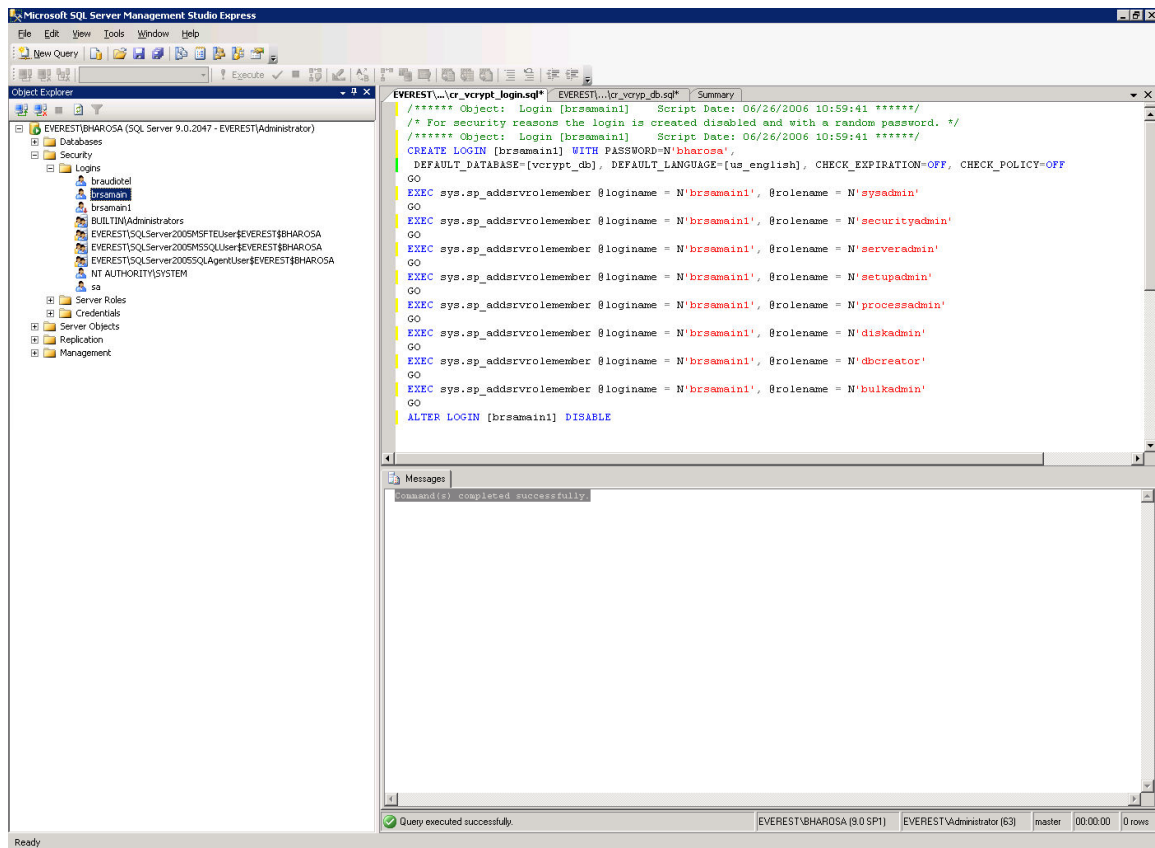
1. Connect to Microsoft SQL Server Management:
Start > All Programs > Microsoft SQL Server Management
2. Run scripts: File > open > select the SQL scripts to run

When the scripts have run, you will see the following messages:

"Example of DB Successful Creation: DBCC execution completed. If DBCC printed error messages, contact your system administrator" or "Command(s) completed successfully."

If there are any errors, see the Messages section for the error and recommended action.

Figure 4. Example of Command(s) scripts: Command(s) completed successfully.



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