

ObserveIT Database Maintenance

The ObserveIT databases have to be maintained on a regular basis in order for the system to work properly and efficient.

The main activities are: Archiving, Re-indexing and Update-Statistics.

Archiving of Information

A Database needs to be kept in a manageable size in order to maintain performance and keep the system in a good operation status.

The Archiving process moves obsolete and irrelevant data from the main ObserveIT database to the Archive database(s), information that is not required for day to day operation.

The Archiving is configured on the Web-Console and should be scheduled to run every day.

Below screen shot as an example:

The screenshot displays the ObserveIT Enterprise web console interface. The top navigation bar includes links for Server Diary, User Diary, DBA Activity, Configuration (selected), Search, Reports, Threat Detection, and About. A secondary navigation bar shows Schedule, Storage Management, Log, Diary, and Search. The left sidebar contains a menu with categories like Console Users, Identification, Servers, Server Groups, Server Policies, Security, Alerts & Events, Identity Theft Detection, Messages, Ticket Integration, License, SMTP Settings, Monitor Log, LDAP Settings, Storage, Archive (selected), Saved Sessions, Audit, and System Log. Below this is a 'Latest Sessions' section showing a session for 'S2-WIN08SQ8' with an 'Admini...' user. The main content area is titled 'Schedule Archive' and features a 'Save Schedule' button. It is divided into three sections: 'Schedule Status and Information', 'Date Range for archiving', and 'Schedule'. The 'Schedule Status and Information' section shows the archive is 'Enabled' and 'Active', with the next running date set for 5/30/2014 at 1:00 AM. The 'Date Range for archiving' section shows data older than 1 month(s) will be added to the current active archive database, with a date range from May 15, 2014, to May 22, 2014. The 'Schedule' section shows the frequency is set to 'Recurs every: 1 Day(s)' at '1:00 AM'.

observe **it**
Enterprise

Record and Replay
Windows & Unix Sessions

Server Diary | User Diary | DBA Activity | **Configuration** | Search | Reports | Threat Detection | About

Schedule | Storage Management | Log | Diary | Search

Schedule Archive

Save Schedule

Schedule Status and Information

Enabled: ☒

Status: Active

Previous Running Date: -

Next Running Date: 5/30/2014 1:00 AM
Data older than 4/30/2014 12:00 AM will be affected.
Current DB time is: 5/29/2014 1:01:13 PM

Sessions To Archive: 0

Screenshots To Archive: 0

Schedule created on: 5/29/2014 1:00 PM

Date Range for archiving

☒ Older than: 1 Month(s) Data will be added to the current active archive database.

Start Date: May 15 2014 End Date: May 22 2014

☐ Date Range : May 15 2014 May 22 2014

Note: Cutoff time is always at midnight.

Schedule

Select frequency.

Recurs every: Days

Recurs every: 1 Day(s)

at: 1:00 AM

You have to watch the size of the archive database; when the size of the archive database is about 450GB, you should navigate to 'storage management' and choose to 'Add New Archive Database'.

Below screen shot shows the location of 'Storage Management':

The screenshot displays the ObserveIT Enterprise web interface. At the top, there is a navigation bar with the ObserveIT logo and a banner for 'Record and Replay Windows & Unix Sessions'. Below the banner, a horizontal menu includes 'Server Diary', 'User Diary', 'DBA Activity', 'Configuration', 'Search', 'Reports', 'Threat Detection', and 'About'. The 'Configuration' menu is expanded, showing sub-options: 'Schedule', 'Storage Management', 'Log', 'Diary', and 'Search'. The 'Storage Management' sub-option is selected, leading to the 'Archive Storage Management' page.

The 'Archive Storage Management' page is divided into two main sections:

- Active Archive Database:** This section contains configuration details for the active archive database. The fields are as follows:
 - Archive data stored in: SQL Server
 - Database Server: WIN-459707VGBK2
 - Database Name: ObserveIT_Archive_1
 - Database path: c:\program files\microsoft sql server\mssql10_50.mssqlserver\mssql\data\Obs...
 - Date range of included sessions: N/A
 - Size of archive database: 0.10 GB (0 Slides)
 - Low DB space notification: Not Configured (with a 'Change...' button and a help icon)At the bottom of this section is a button labeled 'Add New Archive Database' with a help icon.
- Historical Data Storage Locations:** This section displays a table of historical data storage locations. The table has the following columns: 'DB and Related Screen Data Locations', 'First Session Date', 'Last Session Date', 'Sessions DB Size (GB)', and 'Freeze Date'. The table shows 1 result, indicated by '1 - 1 of 1' and a page number '1'.

On the left side of the interface, there is a vertical sidebar menu with the following items: 'Console Users', 'Identification', 'Servers', 'Server Groups', 'Server Policies', 'Security', 'Alerts & Events', 'Identity Theft Detection', 'Messages', 'Ticket Integration', 'License', 'SMTP Settings', 'Monitor Log', 'LDAP Settings', 'Storage', 'Archive', 'Saved Sessions', 'Audit', and 'System Log'. The 'Archive' item is currently selected. Below this menu, there are links for 'Latest Sessions' (showing 'S2-WIN08SQ8 Admini...'), 'Quick Help', 'Installation Guide', 'User Guide', and 'Configuration Guide'.

Re-Index and Update Statistics on ObserveIT's Database

Database re-indexing is a process that reorganizes the data of the Table's Indexes to increase the performance of SQL Queries and overall performance of the database.

Indexes that are fragmented are not efficient and introduce additional resources on the system, instead of helping the database perform better, it does the opposite and derogates the performance.

The Update-Statistics is a process that collects information about queries in the database and helps the Execution-Planner in the database reach better results when selecting an Execution Plan for queries.

The result of these two processes is in faster queries execution and faster data retrieval; in overall increase in Database performance.

-NOTE: You should execute the re-indexing on the ObserveIT databases at least once a week and Update-Statistics on a daily basis.

Before you can execute the re-index and update-statistics, you need to execute a preparation script that will create a stored-procedure that is used by these two activities.

The script is called: **dbmaintprepare.sql** and is packed with this document in the ZIP file.

Next step is to execute the SQL Script "**OIT-DB-Maint-Create-Jobs.sql**", this will create two scheduled jobs that will be executed automatically on the database server on a schedule.

-NOTE: Remember to execute the **dbmaintprepare.sql** before and only once.

If you would like to execute the update-statistics manually, navigate to 'SQL Server Agent ->Jobs -> OIT-DB-Maint-UpdateStatistics', 'right-click -> Start Job at Step ...' and click 'Start'.

If you would like to execute the re-indexing manually, navigate to 'SQL Server Agent ->Jobs -> OIT-DB-Maint-ReIndex', 'right-click -> Start Job at Step ...' and click 'Start'.