

Symantec Enterprise Security Manager™ Modules for Sybase Adaptive Server Enterprise User's Guide

Release 2.1 for Symantec ESM 6.0, 6.1.1, 6.5.x, and 9.0

For Sybase Adaptive Server Enterprise on AIX, HP-UX, and Solaris



Symantec Enterprise Security Manager™ Modules for Sybase ASE v2.1

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Introducing Symantec ESM modules for Sybase Adaptive Server Enterprise

This chapter includes the following topics:

- [About the Symantec ESM modules for Sybase ASE](#)
- [What you can do with the Symantec ESM modules for Sybase ASE](#)
- [Template](#)

About the Symantec ESM modules for Sybase ASE

The Symantec Enterprise Security Manager (ESM) modules for Sybase Adaptive Server Enterprise (ASE) database servers extends Symantec ESM protection to your Sybase ASE servers.

These modules implement 60 new checks and options, which are specific to Sybase ASE servers, to protect them from exposure to known security problems. The modules may be installed locally on the Symantec ESM agent that resides on your Sybase ASE server. The modules may also assess Sybase servers over the network and be installed on an ESM agent that has the Sybase ASE client installed.

You can use the Symantec ESM modules for Sybase ASE in the same way that you use other Symantec ESM modules.

What you can do with the Symantec ESM modules for Sybase ASE

You can perform the following tasks by using the Symantec ESM modules for Sybase ASE:

- Create a policy
- Configure the policy
- Create a rules template
- Run the policy
- Review the policy run
- Correct security problems from the console
- Create reports

Template

Several of the documented modules use templates to store authorized agent and object settings. Differences between current agent and object settings and template values are reported when the modules run. Modules use templates to store authorized agent and object settings.

[Table 1-1](#) shows the modules and checks that use template files in Symantec ESM Modules for Sybase ASE databases.

Table 1-1 Modules and checks that use template files in the Sybase modules

Module	Check name	Template name	Pre-defined template
Sybase ASE Auditing	Procedure Audit Options	Sybase Procedure Audit Options	none
	Object Audit Options	Sybase ASE Object Audit Options	none
	Login Audit Options	Sybase ASE Login Audit Options	none
	Database Audit Options	Sybase Database Audit Options	none
	Global Audit Options	Sybase ASE Global Audit Options	none

Table 1-1 Modules and checks that use template files in the Sybase modules

Module	Check name	Template name	Pre-defined template
Sybase ASE Configuration	Configuration Parameters	Sybase Configuration Parameter	none
	Device Status	Sybase ASE Device Status	none
Sybase ASE Object	Object Permission	Sybase ASE Object Permissions	none
	Exclude granted object perm	Sybase Granted object perm	excludegrantedobjperm.gop
Sybase ASE Patches	Patch templates	Sybase ASE Patch	none

Where you can get more information

See the latest versions of the Symantec Enterprise Security Administrator's Guide and the Symantec ESM Security Update User's Guide for more information about Symantec ESM modules and Security Updates.

For more information on Symantec Enterprise Security Manager (ESM), Symantec ESM Security Updates, and Symantec ESM support for database products, see the Symantec Security Response Web site at the following URL:

<http://securityresponse.symantec.com>

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| Where you can get more information

Installing Symantec ESM modules for Sybase ASE

This chapter includes the following topics:

- [Before you install](#)
- [System requirements](#)
- [Installing the ESM modules for Sybase ASE](#)
- [Silently installing the ESM modules for Sybase ASE](#)
- [Silently configuring the ESM modules for Sybase ASE](#)

Before you install

Before you can install the Symantec ESM modules for Sybase ASE, you must do the following:

- Ensure that connectivity to all Sybase ASE servers is established. There must be a valid interfaces file on the target host.
- Log on as root to install the .tpi.

System requirements

[Table 2-1](#) lists the system requirements and the supported operating systems on which you can install the ESM modules for Sybase ASE.

Table 2-1 System requirements for installing ESM Sybase module

Supported operating systems	Architecture	Supported OS versions
AIX (32-bit)	RS 6000	5.2
AIX (64-bit)	PPC 64	5.3
Sun Solaris (32-bit and 64-bit)	SPARC	2.8, 2.9, 2.10
HP-UX (32-bit and 64-bit)	PARISC	11, 11.11

[Table 2-2](#) lists the Sybase operating systems on which the ESM application modules for Sybase can report.

Table 2-2 Sybase operating systems for ESM application modules

Supported operating systems	Architecture	Supported OS versions	Supported Sybase versions
AIX (32-bit)	RS 6000	5.2	12.5.x, 15.x.x
AIX (64-bit)	PPC 64	5.3	12.5.x, 15.x.x
Sun Solaris (32-bit and 64-bit)	SPARC	2.8, 2.9, 2.10	12.5.x, 15.x.x
HPUX (32-bit and 64-bit)	PARISC	11, 11.11	12.5.x
HPUX (64-bit)	Itanium®	11.23	12.5.x

AIX, HP-UX, and Solaris can be used in a host-based or network-based, agentless environment.

To install the ESM modules for Sybase ASE, you must have the following free disk space:

Table 2-3 Disk space requirements

Supported Operating Systems	Architecture	Supported OS Version	Disk space
AIX (32-bit)	RS 6000	5.2	88 MB

Table 2-3 Disk space requirements

Supported Operating Systems	Architecture	Supported OS Version	Disk space
AIX (64-bit)	PPC 64	5.3	99 MB
Sun Solaris (32-bit and 64-bit)	SPARC	2.8,2.9,2.10	47 MB
HP-UX (32-bit and 64-bit)	PARISC	11, 11.11	86 MB

Unsupported operating systems

The following operating systems are not supported since July 1, 2007:

- AIX 5.1
- Solaris 2.7

The following support is no longer provided for the above mentioned operating systems:

- Application modules
- Updates
- Engineering support

The Symantec ESM modules for Sybase ASE documents will not contain any references to these unsupported operating systems from this release onwards.

Installing the ESM modules for Sybase ASE

You must install the modules on a Symantec ESM agent that is installed on the Sybase ASE server or on an ESM agent that has the Sybase ASE client configured to communicate with the Sybase ASE server. Installation is the same on each platform.

Modules are in an installation package that is named `esmsyb1.tpi`. The package does the following:

- Extracts and installs module executables, configuration (.m) files, and template files.
- Registers the .m and template files using your agent's registration program.
- Calls the `SybaseSetup` program to create the `SYMESMDBA` account. See [“Silently installing the ESM modules for Sybase ASE”](#) on page 13 for more information.

The password for the SYMESMDBA account is 12 characters long and is generated randomly. The SYMESMDBA account performs only read operations.

■ Grants the following default roles:

- sa_role
- sso_role

The privileges of these default roles can be changed in the esmsybaseenv.dat file. Add a “config SymEsmDbRole <name of new roles>” entry to the SYMESMDBA account, separated by a comma or a space.

In the ESM modules for Sybase ASE release, the password must contain at least one upper-case, one lower-case, one number (0-9), and one special character. The default special characters are: _ and #.

This is the character set that is used if the “config PassSpecString” entry is not defined in the /esm/config/esmsybaseenv.dat file.

To use another set of special characters, you must add, for example, a "config PassSpecString \$#_" entry into the /esm/config/esmsybaseenv.dat file before running the tpi or SybaseSetup program.

To install the ESM modules for Sybase ASE:

- 1 From a command prompt, install the module tune-up/installation package. The install package is named esmsyb1.tpi.
- 2 Type **2** to select the option that installs the module.
- 3 Do one of the following:
 - Type **yes** to register the template or .m files.
 - Type **no** if you have already registered these .m files when you installed the module on another agent on the same platform that is registered to this manager. This option is the default.
- 4 Type **yes** to continue and add configuration records.
- 5 Type the Sybase path. This is the path to your \$SYBASE install directory.
- 6 Type the SYBASE_OCS directory or press Enter to accept the default. This is the directory from which you want to run the SQL (isql) client. It is a subdirectory of \$SYBASE.
- 7 Type **yes** to add a configuration record for the listed Sybase ASE servers.
- 8 Type the login for the first server.

This login should be the SA login or a login with equivalent privileges. This login will be used to create a SYMESMDBA account that the modules will use to perform the security checks.

- 9 Type the password for the first server.
- 10 Retype the password for the first server.
- 11 Confirm that the information is correct.
- 12 Type **no** when you have finished adding configuration information for the listed servers.

Note: The encryption that is used to store the credentials is 256-bit AES encryption algorithm.

Silently installing the ESM modules for Sybase ASE

You can silently install the ESM modules for Sybase ASE by using the `esmsyb2.tpi`.

[Table 2-4](#) lists the command line options for silently installing the ESM modules for Sybase ASE.

Table 2-4 Options to silently install the ESM modules for Sybase ASE

Option	Description
-i	Install this tune-up/third-party package.
-d	Display the description and contents of this tune-up/third-party package.
-U	Specify the ESM access record name.
-e	Don't execute the before and after executables (installation without configuration).
-P	Specify the ESM access record password.
-p	Specify the TCP port to use.
-m	Specify the ESM manager name.
-t	Connect to the ESM manager by using TCP.
-x	Connect to the ESM manager by using IPX (Windows only).
-g	Specify the ESM agent name to use for registration.
-K	Do not prompt for and do the re-registration of the agents.

Table 2-4 Options to silently install the ESM modules for Sybase ASE

Option	Description
-n	No return is required to exit the tune-up package (Windows only).
-N	Do not update the report content file on the manager.
-Y	Update the report content file on the manager.

To silently install the ESM modules for Sybase ASE without configuration

1 At the command prompt, type the following:

```
./esmsyb2.tpi -it -m <Manager Name> -u <Username> -p <5600> -P
<password> -g <Agent Name> -e
```

For information on other options, see [Table 2-4](#).

If the installation succeeds, the return value is 0. If the installation fails, the return value is 1.

Silently configuring the ESM modules for Sybase ASE

You can silently configure the ESM modules for Sybase ASE by using the SybaseSetup.

[Table 2-5](#) lists the command line options for silently configuring the ESM modules for Sybase ASE.

Table 2-5 Options to silently configure the ESM modules for Sybase ASE

Option	Description
-h	Display help.
-S <sybase dir>	Directory path of Sybase ASE.
-O <OCS dir>	Directory of Sybase OCS.
-A <account>	The sa for Sybase server to create SYMESMDBA account, or pre-created account for ESM to perform checks.
-P <password>	The password for Sybase server login.
-n	Do not delete the existing SYMESMDBA account before creating the SYMESMDBA account.

To silently configure the ESM modules for Sybase ASE

1 At the command prompt, type the following:

```
./SybaseSetup -a <SID> -S <sybase dir> -O <OCS dir> -A <account> -P <password>
```

Note: -n is an optional switch.

For information on other options, see [Table 2-5](#).

If the configuration succeeds, the return value is 0. If the configuration fails, the return value is 255.

After running the SybaseSetup, logs are created in /esm/tmp/EsmSybaseConfig.log.

Editing configuration records

After installing Symantec ESM Modules for Sybase ASE, you can edit the configuration records. A configuration record is created for each Sybase server when you enable security checking during installation.

You can add, modify, or remove the Sybase ASE servers that are configured for Symantec ESM security checks by using the SybaseSetup program. By default, SybaseSetup is located in the \ESM\bin\<platform>\directory.

[Table 2-6](#) lists the options that you can use when running the SybaseSetup.

Table 2-6 Editing configuration records

Action	Command
Display help.	SybaseSetup -h
Create configuration records for detected Sybase ASE servers.	SybaseSetup -c
Add a new configuration record for undetected Sybase ASE servers.	SybaseSetup -a
Modify existing Sybase ASE configuration records.	SybaseSetup -m
List existing Sybase ASE configuration records.	SybaseSetup -l

Note: If no option is specified, SybaseSetup runs with the -h option.

Symantec ESM module checks for Sybase ASE

This chapter includes the following topics:

- [About Symantec ESM module checks for Sybase ASE](#)
- [Sybase ASE Account](#)
- [Sybase ASE Auditing](#)
- [Sybase ASE Configuration](#)
- [Sybase ASE Object](#)
- [Sybase ASE Password Strength](#)
- [Sybase ASE Patches](#)
- [Sybase ASE Roles and Groups](#)

About Symantec ESM module checks for Sybase ASE

By default, the checks are disabled when you install the module. To enable the checks, use the module properties functions. See the Symantec Enterprise Security Manager Administrator's Guide for more information on using module properties.

Sybase ASE Account

The Sybase account checks evaluate computers for security risks that are associated with Sybase ASE accounts.

Servers to check

The Servers to check option specifies the servers that are included or excluded by all Sybase ASE account security checks.

Automatically update snapshots

Enable this option to update snapshots automatically with current information.

Enabled default logon accounts

The Enabled default logon accounts check reports default logon accounts that are enabled and should be disabled. Use the include list to specify logon names that should be disabled on the server.

[Table 3-1](#) shows the new message for the Enabled default logon accounts check.

Table 3-1 Enabled default logon accounts message

Message name	Title	Severity
ESM_SYBASE_DEFAULT_LOGON_ACCOUNT	Enabled default logon accounts	Yellow-2

Logon accounts

The Logon accounts check reports logon accounts and status. Use the name list to include or exclude logon names for this check.

[Table 3-2](#) shows the new message for the Logon accounts check.

Table 3-2 Logon accounts message

Message name	Title	Severity
ESM_SYBASE_LOGON_ACCOUNTS	Logon accounts	Yellow-2

New logon accounts

The New logon accounts check reports logon accounts that were added to the database after the last snapshot update. Use the name list to include or exclude logon names for this check.

[Table 3-3](#) shows the new message for the New logon accounts check.

Table 3-3 New logon accounts message

Message name	Title	Severity
ESM_SYBASE_NEW_LOGON_ACCOUNTS	New logon accounts	Yellow-2

Deleted logon accounts

The Deleted logon accounts check reports logon accounts that were deleted from the database after the last snapshot update. Use the name list to include or exclude logon names for this check.

[Table 3-4](#) shows the new message for the Deleted logon accounts check.

Table 3-4 Deleted logon accounts message

Message name	Title	Severity
ESM_SYBASE_DELETED_LOGON_ACCOUNT	Deleted logon accounts	Yellow-2

Sybase ASE Auditing

The following checks evaluate computers for security risks that are associated with Sybase ASE auditing.

Servers to check

The Servers to check option specifies the servers that are included or excluded by all Sybase ASE audit security checks.

Auditing enabled

The Auditing enabled check reports Sybase ASE servers that do not have auditing enabled in the configuration parameters.

[Table 3-5](#) shows the new message for the Auditing enabled check.

Table 3-5 Auditing enabled message

Message name	Title	Severity
ESM_SYBASE_AUDITING_NOT_ENABLED	Auditing enabled	Red-4

Auditing threshold procedure

The Auditing threshold procedure check reports Sybase ASE servers that do not have an auditing threshold procedure enabled. It checks the sybsecurity database to see if a valid audit procedure is defined for each audit segment.

This check requires the Audit segments check to be selected.

Use the name list to define valid threshold procedure names. An empty name list will return a message for each segment list in the Audit segments check name list.

[Table 3-6](#) shows the new message for the Auditing threshold procedure check.

Table 3-6 Auditing threshold procedure message

Message name	Title	Severity
ESM_SYBASE_NO_THRES HOLD_PROCEDURE	Auditing threshold procedure	Red-4

Audit segments

The Audit segments check specifies which audit segments to check for an audit threshold procedure. This check is required by the Auditing threshold procedure check and must be run at the same time.

Use the name list to define the audit segments to check. An empty name list will return a message for every audit segment in the sybsecurity database.

Audit queue size

The Audit queue size check reports Sybase ASE servers that have an audit queue size larger than the specified value.

When you set the audit queue size, consider that a large value may lose audit records if the system goes down before writing records to the table. However, a value that is too low may result in frequent saves to the disk and may significantly slow the system.

[Table 3-7](#) shows the new message for the Audit queue size check.

Table 3-7 Audit queue size message

Message name	Title	Severity
ESM_SYBASE_AUDIT_ QUEUE_SIZE	Audit queue size	Red-4

Suspend audit when dev is full

The Suspend audit when dev is full check reports Sybase ASE servers that have a value for Suspend audit when dev is full that does not match the specified value. A value of 0 causes the server to truncate the next audit table and begin using it as the latest audit table once the current audit table fills. A value of 1 causes the server to suspend the audit process and all user processes that cause an auditable event until an empty table is set as the current audit table.

[Table 3-8](#) shows the new message for the Suspend audit when dev is full check.

Table 3-8 Suspend audit when dev is full message

Message name	Title	Severity
ESM_SYBASE_SUSPEND_AUDITING	Suspend audit when dev is full	Red-4

Trunc transaction log on chkpt

The Trunc transaction log on chkpt check reports Sybase ASE servers and their databases that are not configured to truncate transaction logs when performing a checkpoint. Use the Databases name list to include or exclude databases from this check.

[Table 3-9](#) shows the message for the Trunc transaction log on chkpt check.

Table 3-9 Trunc transaction log on chkpt message

Message name	Title	Severity
ESM_SYBASE_TRUNCATE_LOG	Truncate transaction log on checkpoint	Red-4

Procedure Audit Options

The Procedure Audit Options check reports the audit configuration settings of stored procedures and triggers. The report includes default audit options that are used for any new procedure or trigger created on the specified database.

[Table 3-10](#) shows the message for the Procedure Audit Options check.

Table 3-10 Procedure Audit Options check messages

Message name	Title	Severity
ESM_SYBASE_AUDIT_OPTION	Audit Option	Red-4

Object Audit Options

The Object Audit Options check reports object-specific auditing configurations on tables and views. Examples include selecting, inserting, updating, or deleting rows of a particular table or view.

[Table 3-11](#) shows the message for the Object Audit Options check.

Table 3-11 Object Audit Options check messages

Message name	Title	Severity
ESM_SYBASE_AUDIT_OPTION	Audit Option	Red-4

Login Audit Options

The Login Audit Options check reports the audit configuration settings for the specified user login.

[Table 3-12](#) shows the message for the Login Audit Options check.

Table 3-12 Login Audit Options check messages

Message name	Title	Severity
ESM_SYBASE_AUDIT_OPTION	Audit Option	Red-4

Database Audit Options

The Database Audit Options check reports audit configuration settings of databases. Examples include altering a database, bulk copy (bcp in) of data into a database, granting or revoking access to objects in a database, and creating objects in a database.

[Table 3-13](#) shows the message for the Database Audit Options check.

Table 3-13 Database Audit Options check messages

Message name	Title	Severity
ESM_SYBASE_AUDIT_OPTION	Audit Option	Red-4

Global Audit Options

The Global Audit Options check reports audit configuration settings of global that affect the entire server. Global options apply to commands that affect the entire server, such as booting the server, disk commands, and allowing ad hoc, user-defined audit records.

[Table 3-14](#) shows the message for the Global Audit Options check.

Table 3-14 Global Audit Options check messages

Message name	Title	Severity
ESM_SYBASE_AUDIT_OPTION	Audit Option	Red-4

Sybase ASE Configuration

The following checks evaluate computers for security risks that are associated with Sybase ASE server configurations.

Servers to check

The Servers to check option specifies the servers that are included or excluded by all Sybase ASE Configuration security checks.

Version and product level

The Version and product level check reports the Sybase ASE server's version and product level.

[Table 3-15](#) shows the new message for the Version and product level check.

Table 3-15 Version and product level message

Message name	Title	Severity
ESM_SYBASE_VERSION_LEVEL	Sybase version and product level	Green-0

Configuration parameters

The Configuration parameters check reports server configuration parameters that do not match values specified in the template.

[Table 3-16](#) shows the new messages for the Configuration parameters check.

Table 3-16 Configuration parameters messages

Message name	Title	Severity
ESM_SYBASE_SYP_GREEN_LEVEL	Sybase Configuration Parameters	Green-1
ESM_SYBASE_SYP_YELLOW_LEVEL	Sybase Configuration Parameters	Yellow-2

Table 3-16 Configuration parameters messages

Message name	Title	Severity
ESM_SYBASE_SYP_RED_LEVEL	Sybase Configuration Parameters	Red-4
ESM_SYBASE_SYP_NOT_FOUND	Sybase Configuration Parameters	Yellow-2

Master dev default disk status

The Master dev default disk status check reports servers that have the master device default disk status turned on. The default disk status is turned on by default. This allows user databases to be installed on the master device.

[Table 3-17](#) shows the new message for the Master dev default disk status check.

Table 3-17 Master dev default disk status message

Message name	Title	Severity
ESM_SYBASE_DEVICE_DEFAULT	Master dev default disk status	Yellow-2

Device status

The Device status check reports device status as specified in enabled Sybase ASE Device Status templates.

[Table 3-18](#) shows the new message for the Device status check.

Table 3-18 Device status messages

Message name	Title	Severity
ESM_SYBASE_SYD_GREEN_LEVEL	Device status	Green-1
ESM_SYBASE_SYD_YELLOW_LEVEL	Device status	Yellow-2
ESM_SYBASE_SYD_RED_LEVEL	Device status	Red-4

Sybase ASE Object

The following checks evaluate computers for security risks that are associated with Sybase ASE server objects.

Servers to check

The Servers to check option specifies the servers that are included or excluded by all Sybase ASE object security checks.

Automatically update snapshots

Enable this option to update snapshots automatically with current information.

Database status

The Database status check reports databases and status that are configured to the Sybase ASE. Use the name list to include or exclude database names for this check.

[Table 3-19](#) shows the new message for the Database status check.

Table 3-19 Database status message

Message name	Title	Severity
ESM_SYBASE_DATABASE	Database status	Green-0

User access to database

The User access to database check reports Sybase ASE databases that allow user access, such as guest. Use the Databases name list to include databases for this check. Use the value field to include user names for this check. The user names must be separated by a comma.

If you drop the guest user from the master database, server users who have not been added to any databases will not be able to log in to the Adaptive Server.

[Table 3-20](#) shows the new message for the User access to databases check.

Table 3-20 User access to database message

Message name	Title	Severity
ESM_SYBASE_USER_ACCESS_DATABASE	Databases	Yellow-2

New database

The New database check reports databases that were added to the Sybase ASE after the last snapshot update. Use the name list to include or exclude database names for this check.

[Table 3-21](#) shows the new message for the New database check.

Table 3-21 New database message

Message name	Title	Severity
ESM_SYBASE_NEW_DATABASE	New database	Yellow-2

Deleted database

The Deleted database check reports databases that were deleted from the Sybase ASE after the last snapshot update. Use the name list to include or exclude database names for this check.

[Table 3-22](#) shows the new message for the Deleted database check.

Table 3-22 Deleted database message

Message name	Title	Severity
ESM_SYBASE_DELETED_DATABASE	Deleted database	Yellow-2

Object permission

The Object permission check reports unauthorized object permissions as specified in the enabled Sybase ASE Object Permission templates.

[Table 3-23](#) shows the new message for the Object permission check.

Table 3-23 Object permission messages

Message name	Title	Severity
ESM_SYBASE_SYB_OBJ_RED_LEVEL	Object existence	Red-4
ESM_SYBASE_SYB_OBJ_YELLOW_LEVEL	Object existence	Yellow-2
ESM_SYBASE_SYB_OBJ_GREEN_LEVEL	Object existence	Green-0
ESM_SYBASE_SYB_RED_LEVEL	Object permissions	Red-4
ESM_SYBASE_SYB_YELLOW_LEVEL	Object permissions	Yellow-2

Table 3-23 Object permission messages

Message name	Title	Severity
ESM_SYBASE_SYB_ GREEN_LEVEL	Object permissions	Green-0

Object types to check (name list)

Use the Object types to check name list to specify object types (stored procedure, user table, or system table) to include or exclude for the Sybase ASE object checks following the name lists.

Databases to check (name list)

Use the Databases to check name list to specify databases to include or exclude for the Sybase ASE object checks following the name lists.

Object actions to check (name list)

Use the Object actions to check name list to specify object actions (Grant, Deny) to include or exclude for the Sybase ASE object checks following the name lists.

Objects to check (name list)

Use the name list to specify object names to include or exclude for the Sybase ASE object checks following the name lists. The object names may be the name of an object, stored procedure, view, trigger, etc. Wild cards may be used as well.

Grantors to check (name list)

Use the name list to specify grantors to include or exclude for the Sybase ASE object checks following the name lists.

Grantable object permission

The Grantable object permission check reports object permissions that are grantable. Use the name list to include or exclude grantee names for this check.

[Table 3-24](#) shows the new message for the Grantable object permissions check.

Table 3-24 Grantable object permissions message

Message name	Title	Severity
ESM_SYBASE_ GRANTABLE_PERM	Grantable object permissions	Red-4

Granted object permission

The Granted object permission check reports object permissions that are granted. Use the name list to include or exclude grantee names for this check.

[Table 3-25](#) shows the new message for the Granted object permissions check.

Table 3-25 Granted object permissions message

Message name	Title	Severity
ESM_SYBASE_GRANTED _PERM	Granted object permissions	Green-0

New granted object permission

The New granted object permission check reports objects or granted object permissions that were added to the Sybase ASE after the last snapshot update. Use the name list to include or exclude grantee names for this check.

[Table 3-26](#) shows the new message for the New granted object permissions check.

Table 3-26 New granted object permissions messages

Message name	Title	Severity
ESM_SYBASE_NEW_OBJ_ ACTION	New granted object permissions	Yellow-2
ESM_SYBASE_NEW_OBJ_ COLUMN	New granted object permissions	Yellow-2
ESM_SYBASE_NEW_ OBJECT	New granted object permissions	Yellow-2

Deleted granted object perm

The Deleted granted object perm check reports objects or granted object permissions that were deleted from the Sybase ASE after the last snapshot update. Use the name list to include or exclude grantee names for this check.

[Table 3-27](#) shows the messages for the Deleted granted object permissions check.

Table 3-27 Deleted granted object permissions messages

Message name	Title	Severity
ESM_SYBASE_DELETED_OBJ_ACTION	Deleted granted object permissions	Yellow-2
ESM_SYBASE_DELETED_OBJ_COLUMN	Deleted granted object permissions	Yellow-2
ESM_SYBASE_DELETED_OBJECT	Deleted granted object permissions	Yellow-2

Exclude granted object perm

The Exclude granted object perm check excludes granted object permissions that are reported by Granted object permission check. Use the name list to specify a template which contains entries to be excluded. This check references the Granted object permission check.

Sybase ASE Password Strength

The following checks evaluate computers for security risks that are associated with Sybase ASE passwords.

Servers to check

The Servers to check option specifies the servers that are included or excluded by all Sybase ASE password security checks.

Empty password

The Empty password check reports Sybase ASE logins with empty or NULL passwords.

[Table 3-28](#) shows the new message for the Empty password check.

Table 3-28 Empty password message

Message name	Title	Severity
ESM_SYBASE_NULL_PASSWORD	Empty password	Red-4

Password = login name

The Password = login name check reports Sybase ASE logins with matching login names and passwords. To apply this check to role passwords, enable this check and the role password check in the Password policy.

[Table 3-29](#) shows the new message for the Password = login name check.

Table 3-29 Password = login name message

Message name	Title	Severity
ESM_SYBASE_GUESSED_PASSWORD	Password = login name	Yellow-2

Password = any login name

The Password = any login name check reports Sybase ASE logins with passwords that match any login name. To apply this check to role passwords, enable this check and the Role password check in the Password policy.

[Table 3-30](#) shows the new message for the Password = any login name check.

Table 3-30 Password = any login name message

Message name	Title	Severity
ESM_SYBASE_GUESSED_PASSWORD	Password = any login name	Yellow-2

Password = wordlist word

The Password = wordlist word check reports matches between the Sybase ASE login passwords and words in enabled word files. To apply this check to role passwords, enable this check and the Role password check in the Password policy.

Table 3-31 shows the new message for the Password = wordlist word check.

Table 3-31 Password = wordlist word message

Message name	Title	Severity
ESM_SYBASE_GUESSED_PASSWORD	Password = wordlist word	Yellow-2

Reverse order

When the Reverse order option is enabled, password checks that guess passwords report logins containing passwords that match the reverse order of login names or entries in enabled word files. To apply this option to role passwords, enable this option and the Role password check in the Password policy.

Double occurrences

When the Double occurrences option is enabled, password checks report logins containing passwords that match double versions of login names or entries in enabled word files. To apply this option to role passwords, enable this option and the Role password check in the Password policy.

Plural

When the Plural option is enabled, password checks report logins with passwords that match plural forms of login names or entries in enabled word files. To apply this option to role passwords, enable this option and the Role password check in the Password policy.

Prefix

When the Prefix option is enabled, password checks report logins with passwords that match forms of login names or entries in enabled word files with a prefix. Use the option's name list to specify the prefixes to be used. To apply this option to role passwords, enable this option and the Role password check in the Password policy.

Suffix

When the Suffix option is enabled, specified suffixes are added to the user names and wordlist words that are used to guess passwords, for example, mail and mailbox. Use the option's name list to specify the suffixes to be used. The

Suffix option affects the behavior of enabled Password = login name, Password = any login name, and Password = wordlist word security checks. To apply this option to role passwords, enable this option and the Role password check in the Password policy.

Password contains a digit

The Password contains a digit check reports Sybase ASE servers that do not have the configuration parameter enabled that requires new passwords to contain at least one character or digit.

[Table 3-32](#) shows the new message for the Password contains a digit check.

Table 3-32 Password contains a digit message

Message name	Title	Severity
ESM_SYBASE_PASS WORD_CONTAINS_DIGIT	Password contains a digit	Yellow-2

Minimum password length

The Minimum password length check reports Sybase ASE servers that have a minimum password length setting lower than the specified value for this check.

[Table 3-33](#) shows the new message for the Minimum password length check.

Table 3-33 Minimum password length message

Message name	Title	Severity
ESM_SYBASE_MIN_ PASSWORD_LEN	Minimum password length	Yellow-2

Minimum password age

The Minimum password age check reports Sybase ASE servers that have a system wide password expiration setting that is higher than the specified number days for this check.

[Table 3-34](#) shows the new message for the Minimum password age check.

Table 3-34 Minimum password age message

Message name	Title	Severity
ESM_SYBASE_MIN_ PASSWORD_AGE	Minimum password age	Yellow-2

Roles without password

The Roles without password check reports roles that do not have passwords. Use the Roles list to include or exclude roles for this check.

[Table 3-35](#) shows the new message for the Role without password check.

Table 3-35 Roles without password message

Message name	Title	Severity
ESM_SYBASE_ROLE_NO_PASSWORD	Role without password	Yellow-2

Sybase ASE Patches

The following options evaluate computers for security risks that are associated with Sybase ASE patches.

Servers to check

The Servers to check option specifies the servers that are included or excluded by all Sybase ASE patches security checks.

Patch templates

The Patch templates option specifies Sybase ASE Patch template files to be used by this module.

[Table 3-36](#) shows the new message for the Patch templates check.

Table 3-36 Patch templates message

Message name	Title	Severity
ESM_SYBASE_PATCH_NOT_FOUND	Patch templates	Red-4

Creating Sybase ASE patches template file

To create Sybase ASE patches template file, do the following:

- 1 Enter data in the following fields of the Sybase ASE patches template file:
 - **Sybase ASE version:** Enter the Sybase ASE version. Refer to the Sybase ASE version installed on the remote systems. To know the Sybase ASE version, refer to the name of the directory

where Sybase is installed.

For example, if the directory name is ASE-12_5, the installed Sybase ASE version is 12.5.

- **Platform:** Select the platform of the remote system on which the Sybase database is installed or the platform for which the patch is released.
 - **Product:** Enter the name of the database.
For example, Adaptive Server 12.5.
 - **Patch Id:** Enter the Sybase ASE patch id.
For example, 116591-05.
 - **Date:** Enter the date when the patch was released.
 - **Architecture:** Select the architecture of the remote system on which the Sybase database is installed or the architecture for which the patch is released.
 - **Description:** Enter the description for the patch installed.
For example, the patch 116591-05 is meant for the Sun Cluster 3.1:HA-Sybase Patch.
- 2 To add a new row, click **Add Row**.
A new row is added at the bottom of the table.
 - 3 To delete a row (or rows), select the row (or rows), and click **Remove Rows**.
 - 4 Click **Save** to save the template file.
 - 5 Click **Close** to close the template file.
 - 6 Click **Help** to know more about how to use the template editor.

Sybase ASE Roles and Groups

The following checks evaluate computers for security risks that are associated with Sybase ASE roles and groups.

Servers to check

The Servers to check option specifies the servers that are included or excluded by all Sybase ASE role and group security checks.

Role status

The Role status check reports roles and their status. Use the role list to include or exclude roles for this check.

[Table 3-37](#) shows the new message for the Roles status check.

Table 3-37 Role status message

Message name	Title	Severity
ESM_SYBASE_ROLE_STATUS	Roles status	Green-0

Role grantees

The Role grantees check reports role grantees. Use the role list to include or exclude roles for this check.

[Table 3-38](#) shows the new message for the Role grantees check.

Table 3-38 Role grantees message

Message name	Title	Severity
ESM_SYBASE_ROLE_GRANTEE	Role grantees	Green-0

New roles

The New roles check reports roles and members that were added to the database after the last snapshot update. Use the name list to include or exclude role names for this check.

[Table 3-39](#) shows the new message for the New roles check.

Table 3-39 New roles messages

Message name	Title	Severity
ESM_SYBASE_NEW_ROLE	New roles	Yellow-2
ESM_SYBASE_NEW_ROLE_GRANTEE	New roles	Yellow-2

Deleted roles

The Deleted roles check reports roles and members that were deleted from the database after the last snapshot update. Use the name list to include or exclude role names for this check.

[Table 3-40](#) shows the new message for the Deleted roles check.

Table 3-40 Deleted roles messages

Message name	Title	Severity
ESM_SYBASE_DELETED_ROLE	Deleted roles	Yellow-2
ESM_SYBASE_DELETED_ROLE_GRANTEE	Deleted roles	Yellow-2

Database groups

The Database groups check reports database groups. Use the name list to include or exclude databases for this check.

[Table 3-41](#) shows the new message for the Database groups check.

Table 3-41 Database groups message

Message name	Title	Severity
ESM_SYBASE_DATABASE_GROUP	Database groups	Green-0

Group members

The Group members check reports group members. Use the name list to include or exclude databases for this check.

[Table 3-42](#) shows the new message for the Group members check.

Table 3-42 Group members message

Message name	Title	Severity
ESM_SYBASE_GROUP_MEMBER	Group members	Green-0

New groups

The New groups check reports database groups and members that were added to the database after the last snapshot update. Use the name list to include or exclude databases for this check.

[Table 3-43](#) shows the new message for the New groups check.

Table 3-43 New groups messages

Message name	Title	Severity
ESM_SYBASE_NEW_GROUP	New groups	Yellow-2
ESM_SYBASE_NEW_GROUP_MEMBER	New groups	Yellow-2

Deleted groups

The Deleted check reports database groups and members that were deleted to the database after the last snapshot update. Use the name list to include or exclude database names for this check.

[Table 3-44](#) shows the new message for the Deleted groups check.

Table 3-44 Deleted groups messages

Message name	Title	Severity
ESM_SYBASE_DELETED_GROUP	Deleted groups	Yellow-2
ESM_SYBASE_DELETED_GROUP_MEMBER	Deleted groups	Yellow-2

Automatically update snapshots

Enable this option to update snapshots automatically with current information.

Troubleshooting

This chapter includes the following topics:

- [Encryption exception](#)
- [RDL error](#)

Encryption exception

An error may display when you run a policy asking you to reconfigure the module.

[Table 4-1](#) lists the error message that is displayed and the solution for the error.

Table 4-1 Encryption exception

Error	Solution
Encryption exception	<p>This error may occur if you have set <code>SSLConfigure=0</code> after configuring the Sybase ASE module. Or, if you have renamed or deleted the <code>AESConfigSYB.dat</code> file.</p> <p>To solve this problem, you need to reconfigure the Sybase ASE module.</p> <p>If you want to generate logs for encryption, add <code>Debugon=1</code> in the <code>AESConfigSYB.dat</code> file from the <code>esm\config</code> folder. This generates <code>SYBASEdebuglog.log</code> in the <code>esm\system\<<platform></code> folder.</p>

RDL error

The following list contains the RDL 6.5.3 error and its solution:

Table 4-2 RDL error and its solution

Error	Solution
If you have ESM modules for Sybase ASE and RDL 6.5.3 installed on the same computer, the RDL database does not get populated with correct module IDs of the Sybase modules.	Upgrade RDL 6.5.3 to RDL 6.5.3 SP2.

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