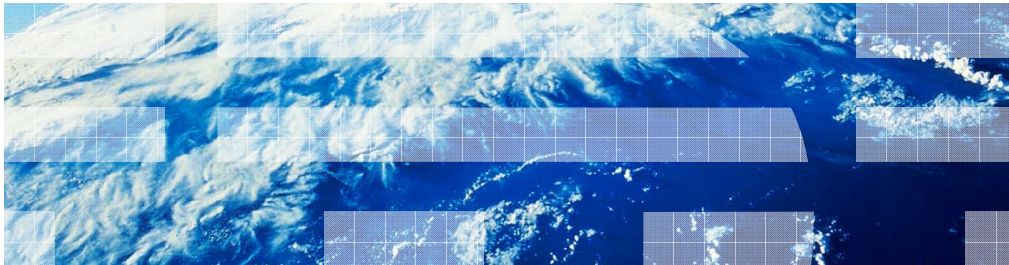


Tivoli Security Operations Manager 4.1.1

Running and scheduling reports



This training module is about running and scheduling reports with Tivoli® Security Operations Manager 4.1.1.

Introduction

In this module, you learn:

- How to schedule reports with Tivoli Security Operations Manager
- How to set advanced report parameters including publishing and trigger options
- How to format and archive reports

In this module, you learn how to schedule reports, based on time and triggers. You also learn how to format and archive reports, and how to send report notifications to third parties.

Running reports on demand

The screenshot shows the Tivoli Security Operations Manager interface. The top navigation bar includes 'Report Sets', 'Schedule', 'On Demand', 'Preferences', and 'Logout'. The left sidebar shows a tree view with 'My Reports' and 'Public Reports' expanded. The main content area displays a table of report sets under the path '/DB2/AggregatedEvent'. A red arrow points to the 'Play' icon in the 'Control' column of the first row.

Name	Type	Description	Control	Last
Aggregated Event Frequency By Time.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/
Aggregated Event Frequency For Domain.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/
Aggregated Event Frequency For EventClass.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/
Aggregated Event Frequency For EventClass.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/
Aggregated Event Frequency For Prot Dest Port Domain.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/
Aggregated Event Frequency For Prot Dest Port Sensor.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/
Aggregated Event Frequency For Prot Src Port Domain.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/
Aggregated Event Frequency For Sensor.ds	ReportSet		▶ ⏪ ⏩ ⏹	2009/04/

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 javascript:doSchedule("Aggregated Event Frequency By Time.ds", 1)

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For this module, an aggregated event-type report is being used as an example. Generating reports from other events uses a similar process to the one described here. To run a report on demand, you log in to the report console and go to the aggregated event window. Click the **Play** icon to proceed to the next stage.

Running reports on demand

The screenshot displays the Tivoli Security Operations Manager web interface. The top navigation bar includes the Tivoli logo, the text "Security Operations Manager", the user name "User: admin", and the date "Date: 2010/03/11 17:31:28". Below this is a menu with "Report Sets", "Schedule", "On Demand", "Preferences", and "Logout".

The main content area is divided into two panes. The left pane, titled "User Directory", shows a tree view of report categories: "My Reports", "Public Reports", "DB2", "AggregatedEvent", "AssetInfo", "EventActivity", "Overview", "Ticketing", "TopTopic", "UserSpecific", "Orade", "PCIReports_DB2", and "PCIReports_Orade".

The right pane, titled "Parameters", shows the configuration for a specific report. It includes the following fields:

- Report Set: /DB2/AggregatedEvent/Aggregated Event Frequency By Time.ds
- Catalog: /DB2/AggregatedEvent/AggregatedEvent.cat
- Select a start time: 2010/03/06 16:37:50
- Enter how long to run on: 1 (Numbers should be in decimal format)
- Select Time Range: Day(s)
- Show me data points every: 1 (Numbers should be in decimal format)
- Select Report Interval: Day(s)

At the bottom of the page, there is a page number "4", the text "Running and scheduling reports", and the copyright notice "© 2010 IBM Corporation".

On the **Parameters** tab, you specify a start time to run the report. You also specify how long you want the report to run and the time range. If you want to run the report for a week, for example, select the option **Week**. You can then provide data point options. If you want individual barcode data points every day of the week, you select **1** in the data points field and select a reporting interval of **Days**. In reports where this option is not available, you supply the start days and end days for data collection.

Advanced parameters

Tivoli Security Operations Manager User: admin Date: 2010/03/11 17:31:28

Report Sets Schedule On Demand Preferences Logout

User Directory x My Reports Public Reports

Path: /DB2/AggregatedEvent Catalog: Aggregated

Properties Publish to Local Server Publish to Remote Server Preferences Parent Path View Mode

Name	Type	Description	Control	Last M
Aggregated Event Frequency By Time.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1
Aggregated Event Frequency For Domain.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1
Aggregated Event Frequency For Event.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1
Aggregated Event Frequency For EventClass.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1
Aggregated Event Frequency For Prot Dest Port Domain.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1
Aggregated Event Frequency For Prot Dest Port Sensor.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1
Aggregated Event Frequency For Prot Src Port Domain.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1
Aggregated Event Frequency For Sensor.ds	ReportSet		▶ ⏪ ⏩ ⏹ ⏸ ⏹	2009/04/1

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 javascript:doSchedule("Aggregated Event Frequency By Time.ds", 1)

When you click **Advanced Execution**, the next icon in the series is available for greater control over reporting parameters.

Advanced parameters

The screenshot shows the Tivoli Security Operations Manager interface. At the top, it displays 'User: admin' and 'Date: 2010/03/11 17:31:28'. Below this is a navigation bar with 'Report Sets', 'Schedule', 'On Demand', 'Preferences', and 'Logout'. A left-hand navigation pane shows a tree structure under 'User Directory' with folders like 'My Reports', 'Public Reports', 'DB2', 'AggregatedEvent', 'AssetInfo', 'EventActivity', 'Overview', 'Ticketing', 'TopTopic', 'UserSpecific', 'Orade', 'PCIReports_DB2', and 'PCIReports_Orade'. The main area is titled 'General' and contains the following configuration options:

- Report Set: /DB2/AggregatedEvent/Aggregated Event Frequency By Time.ds
- Catalog: /DB2/AggregatedEvent/AggregatedEvent.cat [Select Another Catalog](#)
- Report Set Version: 2009/04/16 13:05:20
- Catalog Version: 2009/04/16 13:05:23

Below these are tabs for 'General', 'Format', and 'Archive'. A section titled 'Select a report to run from the report set.' contains a table:

Report Name	Instance Name	Description
report1	report1	

A 'Parameters' section follows with the following fields:

- Select a start time: [input field]
- Enter how long to run on: 1 Numbers should be in decimal format
- Select Time Range: Day(s)
- Show me data points every: 1 Numbers should be in decimal format

At the bottom of the window, there is a status bar with 'Done' and a progress indicator.

Advanced execution also provides more formatting options. In general, you need to provide the same information as given previously, such as start time, how long to run, and so on.

Format reports

The screenshot shows the 'Format' tab in the Tivoli Security Operations Manager interface. The interface includes a top navigation bar with 'Report Sets', 'Schedule', 'On Demand', 'Preferences', and 'Logout'. A left sidebar displays a tree view of report categories: 'User Directory', 'My Reports', 'Public Reports', 'DB2', 'AggregatedEvent', 'AssetInfo', 'EventActivity', 'Overview', 'Ticketing', 'TopTopic', 'UserSpecific', 'Orade', 'PCIReports_DB2', and 'PCIReports_Orade'. The main content area is divided into three tabs: 'General', 'Format', and 'Archive'. The 'Format' tab is active and contains the following settings:

- Select Format for Viewing Report: HTML (dropdown)
- No Margin
- Single File
- Relative Font Size
- Drill Down
- Use Chart: Applet Chart Image Chart
- Resolution: -1 (input field)
- Web Browser: IE (dropdown)
- Text Overflow: HIDDEN (dropdown)
- Enable Style Group
- Enable Converting Encoding
- Enable NLS
- Using Language: English [en] (dropdown)

At the bottom of the window, there is a copyright notice: '© Copyright 1998-2006 Jinfonet Software, Inc. All rights reserved.' and a 'Done' button.

You can use options on the **Format** tab to control the way that reports are displayed. You can control in what format reports are generated. You also have chart options, including event charts or applet charts.

Archive reports

The screenshot shows the 'Archive' configuration window in the Tivoli Security Operations Manager. The window title is 'Tivoli Security Operations Manager' with 'User: admin' and 'Date: 2010/03/11 17:31:28'. The main menu includes 'Report Sets', 'Schedule', 'On Demand', 'Preferences', and 'Logout'. A left-hand navigation pane shows a tree structure under 'User Directory' with folders like 'My Reports', 'Public Reports', 'DB2', 'AggregatedEvent', 'AssetInfo', 'EventActivity', 'Overview', 'Ticketing', 'TopTopic', 'UserSpecific', 'Oracle', 'PCIReports_DB2', and 'PCIReports_Oracle'. The main area has three tabs: 'General', 'Format', and 'Archive'. The 'Archive' tab is active and contains the following settings:

- Auto Archive Properties
- Archive Location:
 - Built-in Version Folder
 - My Reports Folder Input archive destination and result name /USERFOLDERPATH/admin /Aggregated Event Freq
 - The Public Reports Folder Input archive destination and result name Aggregated Event Freq
- Apply Archive Policy
 - Maximum Number of Versions:
 - Result Auto-Delete

At the bottom of the window are 'Submit', 'Reset', and 'Cancel' buttons. A footer bar contains the copyright notice '© Copyright 1998-2006 Jinfonet Software, Inc. All rights reserved.', a 'Done' button, and the page number '8'. The page title 'Running and scheduling reports' and the copyright '© 2010 IBM Corporation' are also visible at the bottom of the slide.

You can use the **Archive** tab to set archive options for reports, such as autoarchive of reports, archive location, maximum number of folders for archives, and other options.

Schedule a report

The screenshot shows the Tivoli Security Operations Manager interface. At the top, it displays 'Tivoli Security Operations Manager', 'User: admin', and 'Date: 2010/03/11 17:31:28'. Below this is a navigation bar with 'Report Sets', 'Schedule', 'On Demand', 'Preferences', and 'Logout'. The main content area is divided into 'My Reports' and 'Public Reports' tabs. A left-hand navigation pane shows a tree structure with folders like 'My Reports', 'Public Reports', 'DB2', 'AggregatedEvent', 'AssetInfo', 'EventActivity', 'Overview', 'Ticketing', 'TopTopic', 'UserSpecific', 'Orade', 'PCIReports_DB2', and 'PCIReports_Orade'. The main pane shows a table of report sets under the path '/DB2/AggregatedEvent'. A red arrow points to the 'Control' column of the table, specifically to the scheduling icon (a clock with a play button) for the first report set.

Name	Type	Description	Control	Last h
Aggregated Event Frequency By Time.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/
Aggregated Event Frequency For Domain.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/
Aggregated Event Frequency For Event.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/
Aggregated Event Frequency For EventClass.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/
Aggregated Event Frequency For Prot Dest Port Domain.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/
Aggregated Event Frequency For Prot Dest Port Sensor.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/
Aggregated Event Frequency For Prot Src Port Domain.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/
Aggregated Event Frequency For Sensor.ds	ReportSet		[Play] [Clock] [Refresh] [Delete]	2009/04/

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 javascript:doSchedule("Aggregated Event Frequency By Time.ds", 1)

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In the following demonstration, you see how to schedule a report. First, you click the icon to schedule a particular report.

Schedule a report

The screenshot shows the 'Schedule' configuration window for a report set in Tivoli Security Operations Manager. The window is titled 'Tivoli Security Operations Manager' and shows the user 'admin' and the date '2010/03/11 17:31:28'. The 'Report Sets' menu is open, and the 'Schedule' option is selected. The main window is divided into four tabs: 'General', 'Publish', 'Conditions', and 'Notification'. The 'General' tab is active and contains the following configuration options:

- Report Set:** /DB2/AggregatedEvent/AggregatedEvent Frequency By Time.ds
- Catalog:** /DB2/AggregatedEvent/AggregatedEvent.cat - Select Another Catalog
- Report Set Version:** Always the latest version
- Catalog Version:** Always the latest version
- Select reports to run from the report set:** A table with columns 'Report Name', 'Description', and 'Instance Name'. The table contains one entry: 'report1'.
- Parameters:**
 - Select a start time:** []
 - Enter how long to run on:** 1 (Numbers should be in decimal format)
 - Select Time Range:** Day(s)
 - Show me data points every:** 1 (Numbers should be in decimal format)
 - Select Report Interval:** Day(s)
 - Enable Style Group
 - Enable Converting Encoding
 - EnableNLS Using Language: English [en]
 - Encoding:** UTF-8
 - Name of the Schedule:** []
 - Catalog DataSource in Data Source 1:**
 - Use the default DB user and password defined in catalog
 - Use the DB User: [] Password: []
 - JNDI DataSource: []
 - Add TaskListener to be Invoked: []
 - Enable Auto Recover Task

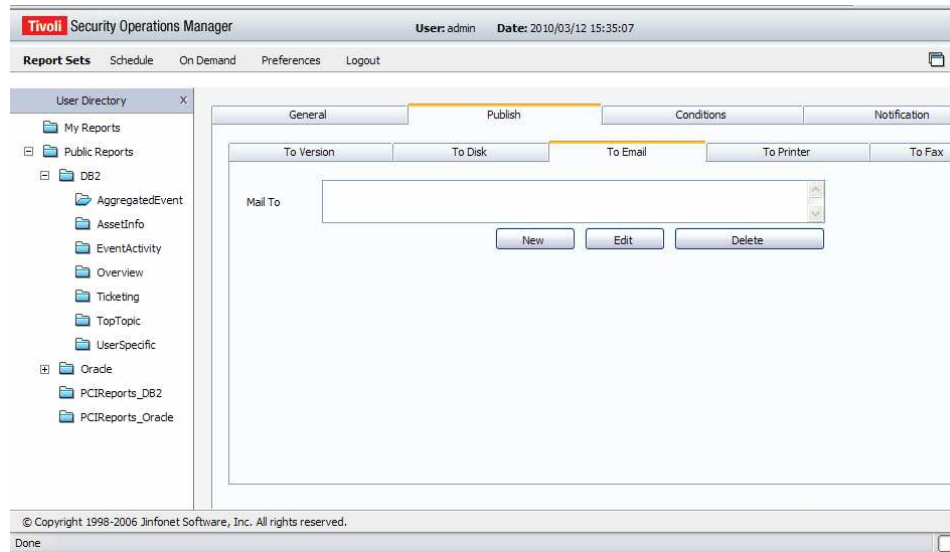
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Running and scheduling reports

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There are many options when scheduling a report. On the **General** tab, you provide the tasks for report execution. These tasks are the same ones that you provided for on-demand execution such as start time, how long to run, and so on. You can also assign a name for the report. If you want Tivoli Security Operations Manager to use another database for report creation, you can provide the details here.

Schedule a report: Publish options



On the **Publish** tab, you can define how the report is delivered: by email, fax, or disk. You can also provide destination delivery details here.

Schedule a report: Trigger options

The screenshot displays the Tivoli Security Operations Manager interface. The main window is titled "Tivoli Security Operations Manager" and shows the user "admin" and the date "2010/03/17 13:16:13". The "Report Sets" menu is open, and the "Trigger" tab is selected. The interface is divided into several sections:

- Left Panel:** A tree view showing the report hierarchy: "User Directory" (expanded) contains "My Reports", "Public Reports", "DB2" (expanded), "AggregatedEvent", "AssetInfo", "EventActivity", "Overview", "Ticketing", "TopTopic", "UserSpecific", "Orade" (expanded), "PCIReports_DB2", and "PCIReports_Orade".
- Top Tabs:** "General", "Publish", "Conditions", and "Notification". The "Trigger" tab is active.
- Trigger Configuration:**
 - Time:** A dropdown menu.
 - Trigger:** A dropdown menu with a "Create New" button next to it.
 - Select a Trigger to Bind:** A dropdown menu.
 - OR:** A radio button.
 - Logic with time condition:** Four radio button options:
 - Trigger Only
 - Trigger and Time Condition
 - Time Condition after Trigger
 - Time Condition or Trigger (selected)
- Help Text:**
 - Trigger Only:** Only the firing of the trigger will run the report.
 - Trigger and Time Condition:** Run the report after both the time condition has arrived and the trigger has fired.
 - Time Condition after Trigger:** Run the report only if the trigger has fired before the time condition has arrived.
 - Time Condition or Trigger:** Run the report when either the trigger has fired or the time condition has arrived.
- Buttons:** "Submit", "Reset", and "Cancel".

At the bottom of the window, there is a copyright notice: "© Copyright 1998-2006 Jinfonet Software, Inc. All rights reserved." and a status bar with "Done".

On the **Trigger** tab, you can set conditions that are critical to report scheduling. Here, you define how you want to run a report. You can schedule when and under what conditions to run a report. You can run a report only when a certain condition is met. You can add time conditions to the trigger so that reports are run only when both the trigger and time conditions have been met. You can also specify a time condition after the trigger. The report runs only if the trigger condition has been satisfied before the time condition is satisfied. The last option is time condition or trigger. Execution of the report happens when either the trigger condition or the time condition has been satisfied.

Schedule a report: Email notification

The screenshot displays the Tivoli Security Operations Manager interface. The top bar shows the user as 'admin' and the date as '2010/03/11 17:31:28'. The main navigation pane on the left lists various report sets under 'User Directory', including 'My Reports', 'Public Reports', 'DB2', 'AggregatedEvent', 'AssetInfo', 'EventActivity', 'Overview', 'Ticketing', 'TopTopic', 'UserSpecific', 'Oracle', 'PCIReports_DB2', and 'PCIReports_Oracle'. The main content area has four tabs: 'General', 'Publish', 'Conditions', and 'Notification'. The 'Notification' tab is selected, showing two checkboxes: 'When task is successful' and 'When task fails'. Below these is a red warning message: 'From: The e-mail configuration settings are invalid. Contact your administrator for help.' Underneath is a text area for recipient details with labels for 'To:', 'Cc:', 'Bcc:', 'Subject:', and 'Comments:'. At the bottom are 'Submit', 'Reset', and 'Cancel' buttons. The footer contains the text '© Copyright 1998-2006 Jinfonet Software, Inc. All rights reserved.' and 'Done'.

In Tivoli Security Operations Manager, if you want to send email notification about whether a report has been successfully executed or not, you can use the option shown on the Notification tab. You provide the recipient's details here. Before using this email notification feature, be sure you have configured JReport with the SMTP server details under the administration configuration. If you have not configured JReport, the warning, **The email configuration settings are not valid. Contact your administrator for help**, is displayed.

Summary

In this module, you learned:

- How to schedule reports with Tivoli Security Operations Manager
- How to set advanced report parameters including publishing and trigger options
- How to format and archive reports

In this module, you learned how to schedule reports with Tivoli Security Operations Manager, how to set advanced report parameters including publishing and trigger options, and how to format and archive reports.

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