

*Tivoli Endpoint Manager for  
Security and Compliance Analytics*

*Setup Guide*





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## Part One

# Introduction

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Tivoli® Endpoint Manager for Security and Compliance Analytics (SCA) is a web-based application for security and risk assessment. SCA archives security compliance check results to identify configuration issues and report levels of compliance toward security configuration goals.

SCA is a component of Tivoli® Endpoint Manager for Security and Compliance, which includes libraries of technical controls and tools based on industry best practices and standards for endpoint and server security configuration. The technical controls enable continuous, automated detection and remediation of security configuration issues. More information about the technical controls is available in the Security Configuration Management documentation on the BigFix support website at <http://support.bigfix.com/resources.html#SCM>. SCA provides reporting tools for managing Security Configuration Management checks.

## System Requirements

Your SCA deployment must be configured according to the following requirements:

Supported browser versions:

- Internet Explorer 7.0 or 8.0
- FireFox 3

Supported Tivoli Endpoint Manager component versions:

- Console V7.2.5.21, 8.0, or 8.1
- Web Reports V7.2.5.21, 8.0, or 8.1
- Windows Client V7.2.5.21, 8.0, or 8.1
- UNIX Client V7.2.5.21, 8.0, or 8.1

SCA server operating system requirements:

- Microsoft Windows Server 2003
- Microsoft Windows Server 2008
- Microsoft Windows Server 2008 R2
- Oracle Java JDK 6 update 21 or later (available at <http://www.oracle.com/technetwork/java/javase/downloads/>)

SCA database server requirements:

- Microsoft SQL Server 2005
- Microsoft SQL Server 2008

SCA server, SCA database, and Tivoli Endpoint Manager database user permissions:

- To install and configure the SCA server, you must have Administrator privileges on the target SCA server, dbcreator permissions on the target SCA database server, and db\_owner permissions on the associated Tivoli Endpoint Manager database.



SCM mastheads and Fixlet sites:

- You might have “legacy” BigFix Fixlets, Tivoli Endpoint Manager Fixlets, and custom Fixlets for security compliance in your deployment. These Fixlets continue to function correctly, but only certain Fixlets display within the SCA reports.
- For a current list of SCM content sites that are supported with SCA, click [here](#) for the related Knowledge Base article.

## Setup Considerations

During setup, match your optimum deployment size to your hardware specifications. Use the recommendations below as general guidance.

- A 2-3 GHz CPU with 4 GB RAM is sufficient for several hundred Tivoli Endpoint Manager clients, but the requirements scale with the number of computers. To support up to 250,000 computers, you will likely need 16 cores and 64 GB RAM.
- Although you can install the SCA server on the same computer as your SQL Server, doing so might impact the SCA application performance. Carefully manage the SQL Server memory and use a dedicated SQL Server computer, if necessary.
- A minimum of 1 GB of free disk space is needed by the SCA Server.
- A minimum of 5 GB of free disk space is needed by the SCA database server for a few hundred Tivoli Endpoint Manager clients.
- Add 1 GB free disk space for the SCA database server for every 1,000 additional clients.
- The above disk space recommendations are based on the following assumptions:
  - Your deployment environment has an average of 2000 SCM checks
  - 2% check result change over each import (daily)
  - 5% of the checks have associated exceptions managed in SCA
  - All measured value analyses for all checks are activated
  - Your deployment contains one year of archived compliance data

You can add additional disk space for future growth of endpoint and additional security compliance checks.



Part Two

## Installation

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Before installing SCA, ensure that your system meets all prerequisites as described in the Systems Requirements section of this document.

Installing and configuring Tivoli Endpoint Manager Analytics is accomplished in two steps:

- Installation is performed with an MSI installer
- Initial configuration is performed using the web interface

## Download Tivoli Endpoint Manager Analytics

To download Tivoli Endpoint Manager Analytics, perform the following steps:

1. In the Tivoli Endpoint Manager console, add the SCM Reporting masthead.
2. In the Security Configuration domain in the console, open the SCA dashboard.
3. From the list of supported endpoints, select the target server and click Deploy Installer. An action opens that downloads the SCA software into a Tivoli Endpoint Manager Analytics folder inside the Tivoli Endpoint Manager client folder on that server, for example, c:\Program Files\BigFix Enterprise\TEMA).

If you are using Tivoli Endpoint Manager version 7.2, you will not see the SCA dashboard in your console.

You can manually download the installation files from the following location:

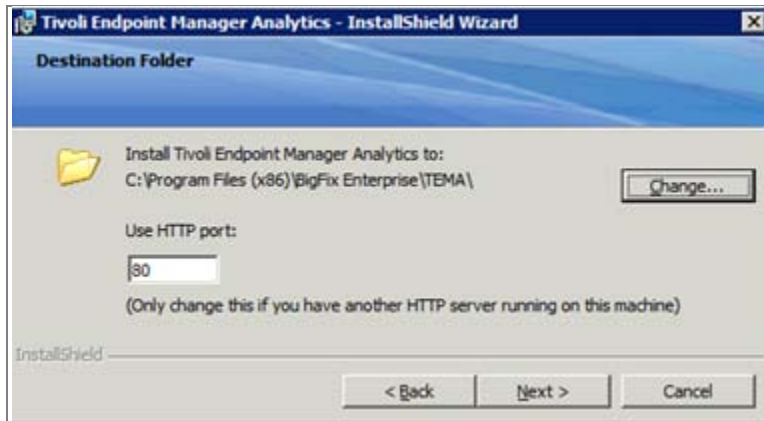
<http://support.bigfix.com/dss/install/downloaddssam.html#TEMSCA>.

## Install Software

If you install SCA on a Windows system with User Account Control active, you must perform the following steps as an *Administrator*.

In Windows Explorer, open \Program Files\BigFix Enterprise\TEMA\tema.msi to begin installation.

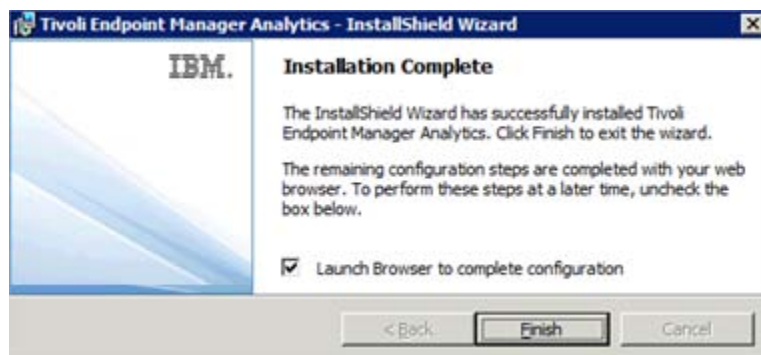
During installation, you can change the installation path as well as the TCP port.



By using the installer, you can specify the user account that runs the Tivoli Endpoint Manager Analytics service. If you configure Tivoli Endpoint Manager Analytics to connect to the SQL Server through a Windows-authenticated user, the Tivoli Endpoint Manager Analytics service must be configured to run as that same user.



After the installation completes, the Tivoli Endpoint Manager Analytics server setup must be completed by using the web interface. The final screen of the installer prompts you to launch a web browser to complete the setup.



If you configure the system at a later time, you must launch a supported web browser on the Tivoli Endpoint Manager Analytics server and go to <http://localhost:<port>>, replacing <port> with the port that you configured during installation.





## Perform Initial Configuration

To set up the database connection, perform the following steps:

1. Enter the host and database name fields.
2. Select a type of authentication.
3. Click *Create* to create a new administrative user.

Host: localhost  
Database Name: tem\_analytics  
Authentication:  Windows Authentication  SQL Server Authentication  
Create

In the next screen:

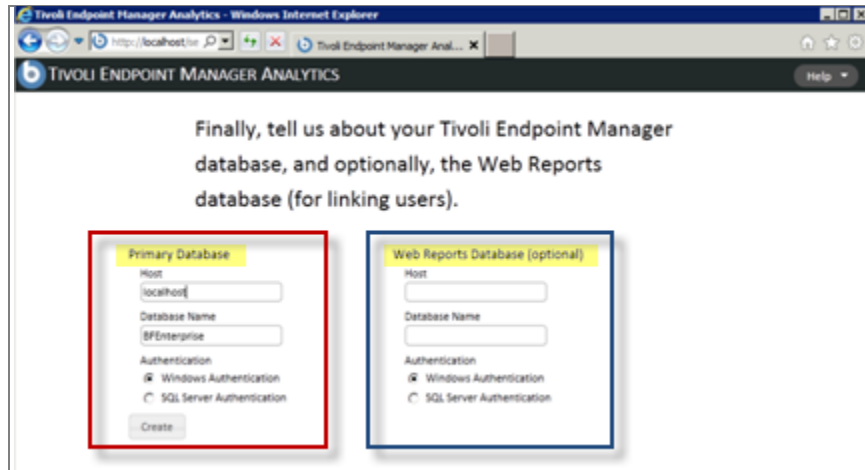
1. Enter a username and password for the new administrator account.
2. Click *Create*.

Username:   
Password:   
Password Confirmation:   
Create

Next, connect to your Tivoli Enterprise Manager database.

1. Enter the host, database name, and authentication method for your primary Tivoli Endpoint Manager database
2. Click *Create*.

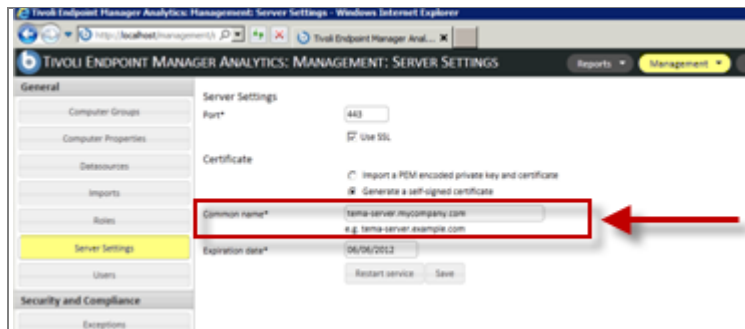
You can also set up a Web Reports database in the fields on the right side of the screen.



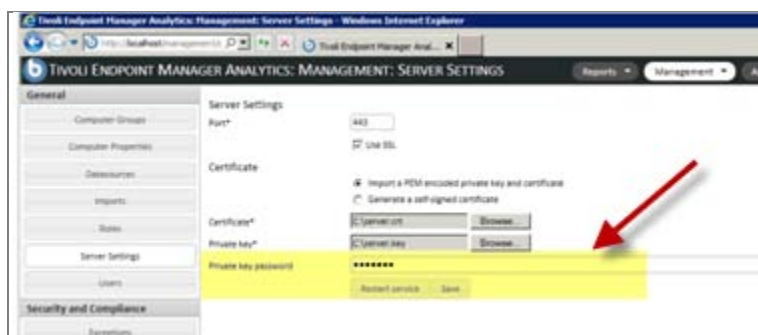
## Configure HTTPS

Tivoli Endpoint Manager Analytics administrators can configure SSL and the TCP ports from the Management/Server Settings section of the web interface. When turning on SSL, you can provide a pre-existing private key and certificate or have the system automatically generate a certificate. If you change the port or SSL settings, you must restart the service for the changes to take effect.

If you generate a certificate, you must specify a certificate subject *common name*. The common name must correspond to the DNS name of the Tivoli Endpoint Manager Analytics server.



If you provide a pre-existing private key and certificate, they must be PEM-encoded. If your private key is protected with a password, you must enter it in the *Private key password* field.





*Part Three*

# *Support*

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## Technical Support

The Tivoli Endpoint Manager technical support site offers a number of specialized support options to help you learn, understand, and optimize your use of this product:

- [Tivoli Endpoint Manager Info Center](#)
- [BigFix Support Site](#)
- [Documentation](#)
- [Knowledge Base](#)
- [Forums and Communities](#)





Part Four

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