

# Covene Cohesion — Server Installation Guide

A Modular Platform for Pexip Infinity Management
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# **Table of Contents**

١.	0	verview3
2.	U	pgrading an Existing Installation4
3.	C	ovene Cohesion Server Installation4
	1.	Recommended System Specifications
	2.	Server Domain Requirements
,	3.	Exchange Integration Requirements
	4.	User Groups in AD
	5.	Install & Configure IIS on the Cohesion Server
	1.	IIS Tasks
(	6.	Open Windows Firewall Ports11
	7.	Install Covene Cohesion Server Software
	8.	Cohesion Server Software Installation
	9.	Configure the Cohesion Webserver in IIS
	1.	SSL Certificates
	10.	Post-Installation Configuration
	1.	Copy the License File
	2.	Restart the Server
	3.	Configure the Cohesion Settings
1.	A	ppendix A: Installer Parameters19
	1.	Cohesion Server Installer Parameters
	1.	Supported Parameters19



# 1. Overview

The Covene Cohesion server installation process defines the steps required to install the Cohesion platform and the modules it supports. The installation process will step through the creation of groups, configuration of IIS, setup of the server to integrate with the Pexip Infinity management node, and ready the system for use.

# 2. Upgrading an Existing Installation

If a new installation is being installed, proceed to the next section.

In the case that a current version of Cohesion is already installed. Simply run the new installer on the server with the existing installation. If the installer was run from command line with a custom installation path specified, make sure the same installation path is specified again. The MongoDB and Cohesion Windows Service services will be automatically stopped during installation. Once installation has completed, proceed with the instructions in the Post-Installation Configuration section in this document.

NOTE: It is highly recommended that the existing installation is backed up prior to installation of the new system, so that the system can be restored in the event that there is an error during installation, migration, or other technical problems preventing the new installation from working properly. To make a backup, copy the existing installation directory to a secure location (the default path is C:\Program Files (x86)\Covene\Covene Cohesion Server\).

# 3. Covene Cohesion Server Installation

# 1. Recommended System Specifications

The following are the minimum required resources. If hosting more than 1000 users more memory and CPU should be allocated.

OS: Microsoft Windows Server 2012 R2

CPU: Intel Xeon CPU 2.8GHz

Memory: 16GB

OS & App Storage: 200 GB recommended (60GB min. for Server 2012 R2 OS &

application)

**Port Usage:** TCP 5424 inbound to the server

Administrative Workstation Web Browser: Google Chrome Version 35 or greater; Firefox

Version 30 or greater

## 2. Server Domain Requirements

Covene Cohesion utilizes a read-only connection to Active Directory (AD) to authorize accounts and must be installed on a Windows Server that is joined to your AD domain.

## 3. Exchange Integration Requirements

Integration is supported for Exchange Server 2013, and 2016. Integration with O365 is also supported.



# 4. User Groups in AD

Covene Cohesion uses two groups in AD to identify accounts that are administrators of the system and accounts that are standard users of the platform. By default, the group names are:

- Covene Cohesion User
- Covene Cohesion Admin

You may use different group names but you must ensure the same names are supplied to the installer during installation. You will need Domain Admin rights to create these groups within the AD Users & Computers management application.

NOTE: At least one account must exist in the Covene Cohesion Admin group (or the name you choose) in order to login and configure the platform.



## 5. Install & Configure IIS on the Cohesion Server

The following instructions are instructions for installing IIS and generally apply to Server 2012. Your organization may have specific requirements for the installation of web servers, the certificates to be used, and the configuration settings of the web server such as file and directory location and hierarchy.

Your organization's requirements may be incorporated if the following basic requirements and their dependencies are met:

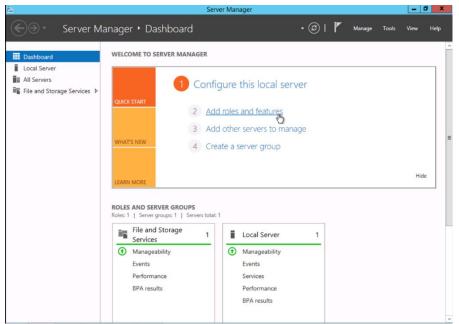
- Microsoft Windows Server 2012 R2
  - o IIS 8
  - .NET Framework Features 4.5
  - ASP.NET 4.5
  - IIS Hostable Web Core
  - Windows Authentication for Security
  - Application Development .NET 4.5 Extensibility
  - Application Development ASP.NET 4.5

IMPORTANT: Do not install the Cohesion server on server acting as a domain controller. Doing so may prevent the software from correctly reading Active Directory information.

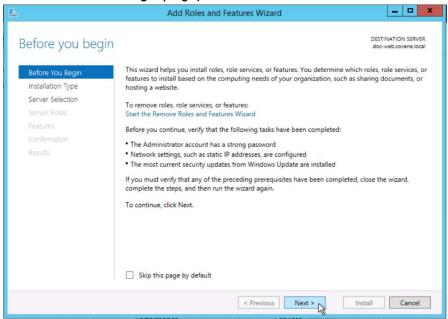


#### 1. IIS Tasks

1. Open the **Server Manager** on the Cohesion server; navigate to **Dashboard** > **Add roles** and **features** to launch the Add Roles and Features Wizard.

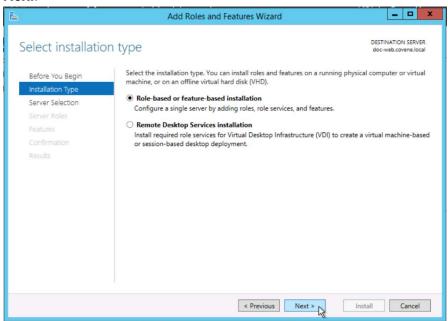


2. On the Before You Begin page, click Next.

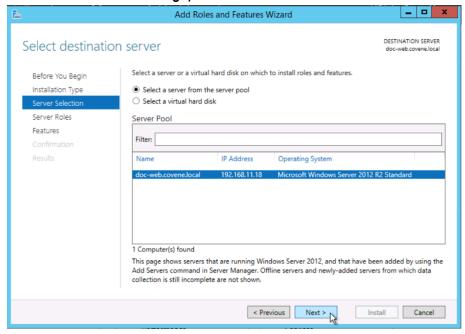




 On the Installation Type Page, select "Role-based or feature-based installation". Click Next.

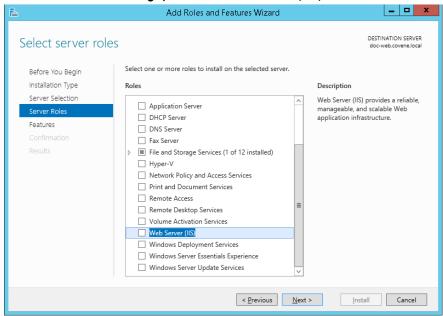


4. On the Server Selection Page, select a destination and click Next.

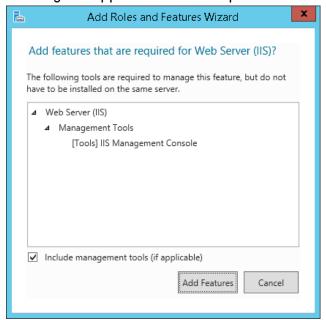




5. On the Server Roles Page, select "Web Server (IIS)".

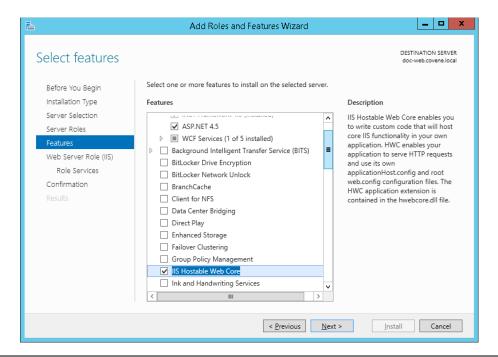


6. A dialog will appear to confirm dependencies for Web Server (IIS). Click Add Features.



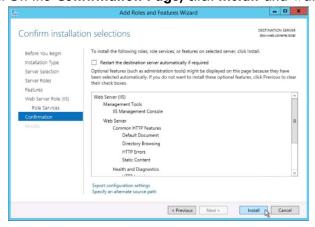
- 7. When returned to the Web Server Role (IIS) Page, click Next.
- 8. On the Features Page, check the boxes next to .NET Framework 4.5 Features > ASP.NET 4.5 and IIS Hostable Web Core, then click Next.





NOTE: Depending on your environment, the following may appear under the Server Roles if installing on a server where IIS was already installed.

- 9. On the Web Server Role (IIS), click Next.
- 10. On the **Role Server Page**, check the following check boxes (click **Add Features** if prompted to add any feature dependencies):
  - a. Web Server > Security > Windows Authentication,
  - b. Web Server > Application Development > .NET 4.5 Extensibility
  - c. Web Server > Application Development > ASP.NET 4.5
- 11. Click Next.
- 12. On the Confirmation Page, click Install and wait for the features to complete installation.



13. After successful installation, click Close.

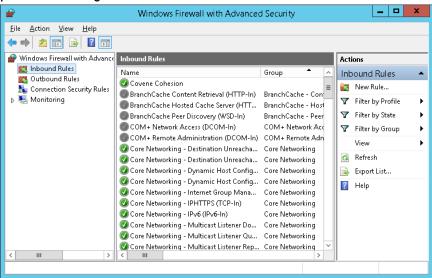
The operating system is now configured with the roles and features required to support the Cohesion service and web server.



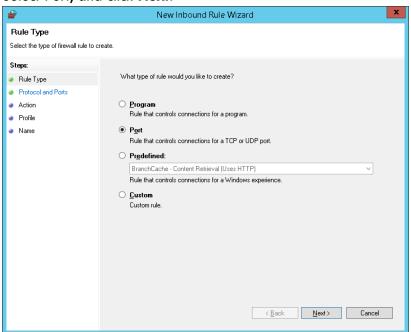
## 6. Open Windows Firewall Ports

The following specifies how to open ports for the Windows Firewall, if enabled. Should a firewall be in place between the clients of the Cohesion Platform and the server, then **TCP** port **5424** must be opened on the respective firewall device.

- From the Server Manager, select Tools > Windows Firewall with Advanced Security.
- Select Inbound rules on the left panel, then select New Rule... from the Actions panel on the right.

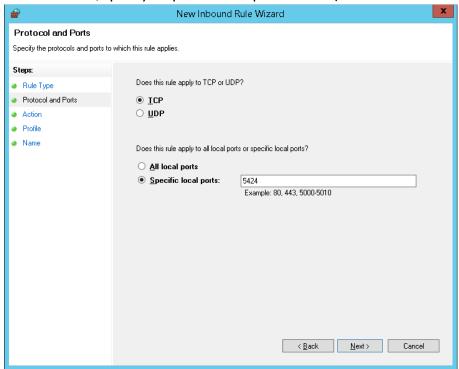


3. Select Port, and click Next.

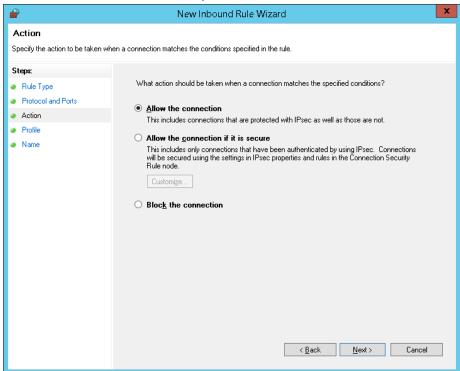




4. Select TCP, specify a specific local port of 5424, and click Next.



5. Click Allow the connection, and click Next.



- 6. Click Next on the next page, then name the rule and click Finish.
- 7. The firewall is now correctly configured to allow incoming connections to reach the Cohesion service.



#### 7. Install Covene Cohesion Server Software

The following instructions will install the Cohesion Server service and webserver.

NOTE: Administration privileges are required to run the installer.

- 1. Copy the **CoveneCohesionServerSetup-<ver>.msi** file to the deployment system, where <ver> is the version number of the Covene Cohesion installer.
- 2. Double-click the file to run the installer.
- 3. Depending on your security settings, you may be prompted by User Account Control to allow the program to make changes to the computer. If prompted, click **Yes**.
- 4. Follow the instructions directed by the installer. If prompted to allow the installer to make changes to the computer, click **Yes**.

#### 8. Cohesion Server Software Installation

- 1. Launch the installer, accept the terms of the license agreement to proceed.
- 2. Click Install to complete the setup wizard and begin installation.
- 3. Upon confirmation of successful installation from the installer, the Cohesion service and webserver will be installed and ready to start.
- 4. Please continue with instructions including reboot before attempting to login

## 9. Configure the Cohesion Webserver in IIS

The Covene Cohesion Server installs a website in IIS that requires configuration before it will be operational. The following steps are required to configure the website so that it is accessible.

WARNING: The Cohesion Server is intended to be installed as the primary website bound to port 443 of the server.

#### 1. SSL Certificates

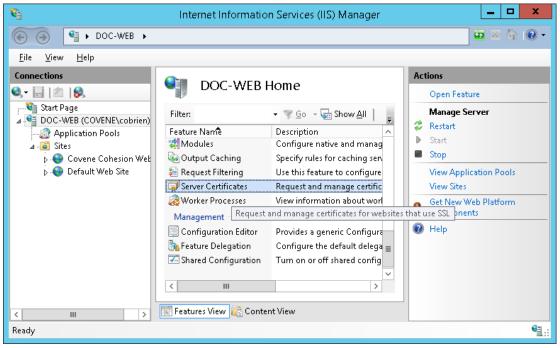
SSL Certificates are required to secure communication between browsers and the Cohesion Server web interface. If the use of a domain certificate is desired, the instructions below will guide the creation and application of the certificate. Otherwise, a third party certificate authority should be used to generate the certificate.

NOTE: By default, Firefox and Chrome do not inherently trust domain certificates. It is recommended domain certificates be trusted by Group Policy or use certificates signed by a third party Certificate Authority so all browsers will trust the certificates.

 From an administrative workstation or remote desktop to the Cohesion Server, launch Internet Information Services (IIS) Manager and manage the server upon which Cohesion Server was installed.

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2. Select the **Server Icon** under the **Start Page Icon** in the left panel tree-view, then double-click **Server Certificates** in the main view.

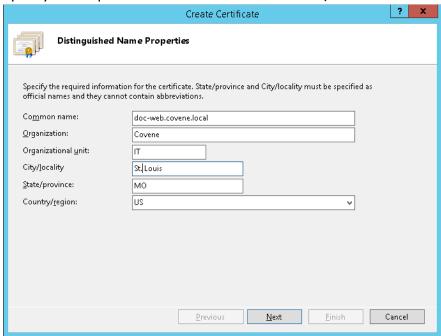


3. In the right Actions panel, click Create Domain Certificate.

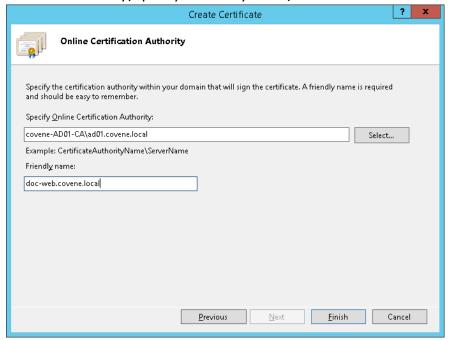




4. Specify the required information for the certificate, and click Next.



5. Select the authority, specify a friendly name, and click Finish.





6. The certificate will be listed.

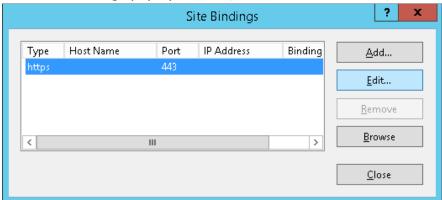


7. In the left panel under Sites, select Covene Cohesion Web Site. Navigate to Actions > Edit site > Bindings.

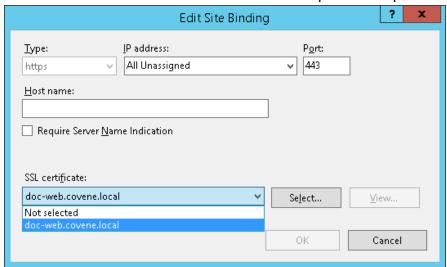




8. In the Site Bindings pop-up window, click Edit....



9. Select the **SSL Certificate** that was created in the previous step.



10. After selecting the SSL Certificate, click **OK**, then **Close**.

NOTE: The **Default Web Site** may be deleted if not in use.

11. The web server is now correctly configured to allow intranet traffic of a secure SSL connection.



# 10. Post-Installation Configuration

Once the server is initially installed, the following steps are required in order to ensure the system is operational.

### 1. Copy the License File

Before the system will be fully operational, the license must be configured. License files should be copied to the location of the Service directory. By default this location is: C:\Program Files (x86)\Covene\Covene Cohesion Server\Service.

#### 2. Restart the Server

Restart the server before you attempt to login to the Covene Cohesion website.

NOTE: After the server starts for the first time, it may take a few minutes to fully initialize and the database to be accessible.

### 3. Configure the Cohesion Settings

At this point installation is completed. Refer to the Administrator guide for instructions on configuring the system.



# 4. Appendix A: Installer Parameters

### 1. Cohesion Server Installer Parameters

The server installation can be customized by supplying additional parameters to the **Covene Cohesion Server Installer** during installation.

### 1. Supported Parameters

The following parameters may be provided when the installer is passed to the msiexec program:

- **INSTALLDIR:** Specifies the installation directory.
- PORT: Specifies the port the server will communicate with the Outlook Add-In application.

WARNING: Changing the port of the **TCP Address** will require changing the port in the **Address** option in the Outlook Add-in configuration file. See the Covene Cohesion Add-In for Microsoft Outlook User Guide for more information.