

Jamf Software Server Installation and Configuration Guide for Mac

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Jamf has made all efforts to ensure that this guide is accurate.

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About This Guide

The Jamf Software Server (JSS) is a web application that functions as the administrative core of the Casper Suite. The JSS allows you to perform inventory and remote management and configuration tasks on managed computers and mobile devices. All other administrative applications in the Casper Suite communicate with the JSS.

This guide provides step-by-step instructions for installing and setting up the JSS on the Mac platform. It also explains how to perform advanced configuration tasks.

Additional Resources

For information about setting up and managing the JSS after it is installed, see the *Casper Suite Administrator's Guide*, available at:

https://www.jamf.com/resources/casper-suite-administrators-guide/



Applications and Utilities

This section provides an overview of the applications and utilities that you need to install and maintain the Jamf Software Server (JSS), and Jamf Distribution Server (JDS) instances.

Jamf Software Server

The Jamf Software Server (JSS) is a web application that functions as the administrative core of the Casper Suite. The JSS allows you to perform inventory and remote management and configuration tasks on managed computers and mobile devices. All other administrative applications in the Casper Suite communicate with the JSS.

JSS Installer for Mac

The JSS Installer for Mac is a standard .pkg installation package that allows you to install and upgrade the JSS on Mac. It is signed by Jamf.

The JSS Installer for Mac also allows you to create your initial JDS instance during a fresh installation. For more information on JDS instances, see Jamf Distribution Server Instances.

JSS Database Utility

The JSS Database Utility allows you to back up and restore the jamfsoftware database. It also allows you to restart Apache Tomcat and MySQL and modify their settings.

The JSS Database Utility is installed automatically when you run the JSS Installer. It is located in:

/Library/JSS/bin/JSSDatabaseUtil.jar

JDS Installers

The JDS Installer for Mac (.pkg) and the JDS Installer for Linux (.run) allow you to install JDS instances on Mac or supported Linux operating systems.

A JDS instance is a distribution point that is managed by the JSS, similar to a computer or mobile device. For more information on JDS instances, see <u>Jamf Distribution Server Instances</u>.

To obtain the JDS Installers, log in to Jamf Nation and go to the following page:

https://www.jamf.com/jamf-nation/my/products

Installed Files and Folders

The following files and folders are installed when you run the JSS Installer:

JSS web application

The files that make up the JSS web application are stored in the following location:

/Library/JSS/Tomcat/webapps/ROOT/

Apache Tomcat

Tomcat is the web application server that runs the JSS web application. A directory named Tomcat is installed in the following location:

/Library/JSS/

For more information about the version of Tomcat installed by the JSS Installer, see the <u>Apache</u> <u>Tomcat Version Installed by the JSS Installer</u> Knowledge Base article.

server.xml

The JSS Installer installs a modified copy of Tomcat's server.xml file. This file enables SSL, ensures that the JSS appears in the root context, and enables database connection pooling. It is installed in the following location:

/Library/JSS/Tomcat/conf/

com.jamfsoftware.tomcat.plist

This is the launchd item that controls Tomcat. It is installed and loaded in the following location: /Library/LaunchDaemons/

keystore

Tomcat requires a .keystore file to provide connections over SSL. The JSS Installer creates a default .keystore file and stores it in the following location:

/Library/JSS/Tomcat/

JSS Database Utility

The JSS Database Utility (${\tt JSSDatabaseUtil.jar}$) is installed in the following location:

/Library/JSS/bin/

Database backup location

By default, the JSS Database Utility stores database backups in the following location:

/Library/JSS/Backups/Database/

Logs

Logs for the installation and for the JSS are stored in the following location:

/Library/JSS/Logs/

JDS Instance

This is the distribution point created by default for a fresh installation. Most JDS components are installed in the following location:

/Library/JDS/

For a complete list of JDS components and their locations, see the <u>Components Installed on JDS Instances</u> Knowledge Base article.

Requirements

This section lists the requirements for the applications and utilities you need to install and maintain the Jamf Software Server (JSS), and Jamf Distribution Server (JDS) instances.

Jamf Software Server

You can host the JSS on any server that meets the following requirements:

- Java 1.7 or Java 1.8 (Java 1.8 is recommended)
- MySQL 5.6.x or 5.7.x (MySQL 5.7.x is recommended)
- Apache Tomcat 7 or 8.0.x (Tomcat 8.0.x is recommended)

Tested Mac operating systems include:

- macOS 10.10
- macOS 10.11
- macOS 10.12

Although you can install the JSS on any server that meets the minimum requirements, the JSS Installer for Mac has additional requirements. (For more information, see the next section.)

Tested browsers for the JSS are as follows:

- Safari
- Mozilla Firefox
- Google Chrome
- Microsoft Internet Explorer 10 or later

JSS Installer for Mac

The JSS Installer for Mac requires the following:

- Minimum operating systems:
 - macOS 10.7
 - macOS 10.8
 - macOS 10.9
- Recommended operating systems:
 - macOS 10.10
 - macOS 10.11
 - macOS 10.12

In addition, you need the following:

A 64-bit capable Intel processor

- 2 GB of RAM
- 400 MB of disk space available
- macOS 10.7 or later
- macOS Server (recommended)
- Java SE Development Kit (JDK) 1.7 or 1.8 for Mac
 You can download the JDK from:
 http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
- Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 1.7 or 1.8 (must be the same version as Java)

You can download the JCE from:

http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html

- MySQL 5.6.x or 5.7.x (MySQL 5.7.x is recommended)
 You can download MySQL from:
 https://www.mysql.com/downloads/
- Ports 8443 and 9006 available

JSS Database Utility

The JSS Database Utility requires a server with MySQL 5.6.x or 5.7.x (MySQL 5.7.x is recommended) installed.

JDS Installer for Mac

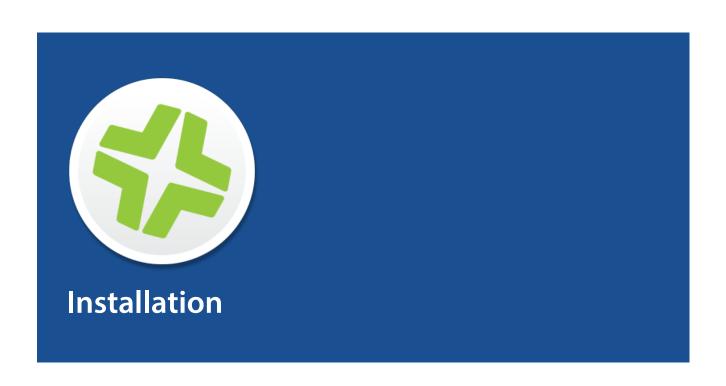
The JDS Installer for Mac requires a computer with:

- An Intel processor
- 2 GB of RAM
- 100 GB of disk space available
- macOS 10.7 or later with macOS Server 1.4.3 or later installed

JDS Installer for Linux

The JDS Installer for Linux requires a computer with:

- An Intel processor
- 2 GB of RAM
- 100 GB of disk space available
- One of the following operating systems:
 - Ubuntu 10.04 LTS Server
 - Ubuntu 12.04 LTS Server
 - Red Hat Enterprise Linux (RHEL) 6.4, 6.5, 6.6, or 7.0
 Note: To install a JDS instance on a Linux operating system that is running on a virtual machine, you need a virtualization platform that provides SMBIOS information.



Installing the JSS

Installing the Jamf Software Server (JSS) involves the following steps:

- 1. Install the required software (if you haven't already).
- 2. Create the jamfsoftware database.
- 3. Run the JSS Installer.

Before you begin, make sure your server meets the JSS Installer requirements. (For more information, see <u>Requirements</u>.)

Note: If you are installing the JSS on a server with macOS Server v5.0.x installed, the macOS Server Profile Manager service will not be accessible after the installation is complete.

Step 1: Install the Required Software

Java and MySQL must be installed on the server before you can create the jamfsoftware database and run the JSS Installer. For instructions on how to install and configure Java and MySQL, see the following Knowledge Base article:

Installing Java and MySQL

Step 2: Create the jamfsoftware Database

Create a MySQL database in which the JSS can store its data and a MySQL user that can access the database.

A default MySQL database name, username, and password are used throughout the instructions in this section. It is recommended, however, that you use a custom username and password that comply with your organization's security requirements. It is also recommended that you not use "root" as the username. A different database name can also be set if desired.

The default MySQL settings used in the instructions below are:

- Database name: jamfsoftware
- Username: jamfsoftware
- Password: jamfsw03

Note: If you customize any of the MySQL settings, you will be prompted to enter them on the Database pane when you run the JSS Installer.

1. Open Terminal and access the MySQL command line as "root" by typing:

```
mysql -u root -p
```

If MySQL is not in the path or it is installed in a custom location, access the MySQL command line by updating the path or by typing:

```
/path/to/mysql -u root -p
```

Note: The default path for MySQL is /usr/local/mysql/bin/.

- 2. When prompted, enter the password for the MySQL "root" user. If you did not create a root password, press the Return key.
- 3. Create a database by executing:

```
CREATE DATABASE jamfsoftware;
```

You can customize the database name by replacing jamfsoftware with the desired name as shown in the following example:

```
CREATE DATABASE myDatabaseName;
```

4. Create a new MySQL user:

```
CREATE USER 'jamfsoftware'@'localhost' IDENTIFIED BY 'jamfsw03';
```

5. Grant access to that user so that it can access the database:

```
GRANT ALL ON jamfsoftware.* TO 'jamfsoftware'@'localhost';
```

You can customize the MySQL username and password by replacing 'jamfsoftware' and 'jamfsw03' with the desired username and password as shown in the following examples:

```
CREATE USER 'customUsername'@'localhost' IDENTIFIED BY 'customPassword';
```

```
GRANT ALL ON myDatabaseName.* TO 'customUsername'@'localhost';
```

Step 3: Run the JSS Installer

The JSS Installer for Mac (JSS Installer.mpkg) installs Apache Tomcat and the JSS web application.

To run the JSS Installer for Mac, copy it to the server. Then open the installer and follow the onscreen instructions.

Related Information

For related information, see the following section in this guide:

Installed Files and Folders

Learn about the files and folders that are installed by the JSS Installer.

For related information, see the following Knowledge Base article:

Apache Tomcat Version Installed by the JSS Installer

View the Tomcat version that is installed by the JSS Installer.

Upgrading the JSS

This section explains how to upgrade the Jamf Software Server (JSS).

Note: To take full advantage of all new features, bug fixes, and enhancements available in the Casper Suite, it is recommended that you use the latest version of the JSS and the client applications. To upgrade the client applications, simply replace the existing applications with the latest version.

- 1. Back up the current database using the JSS Database Utility. For more information, see <u>Backing Up the Database</u>.
- 2. Copy the latest version of the JSS Installer for Mac (JSS Installer.pkg) to the server.
- 3. Double-click the installer and follow the onscreen instructions to complete the upgrade.



Setting Up the JSS

The first time you connect to the Jamf Software Server (JSS), the JSS Setup Assistant guides you through the following setup tasks:

- Accept the license agreement.
- Enter your activation code.
- Create your first JSS user account.
- Enter your JSS URL.
 The JSS URL is the URL that client applications, computers, and mobile devices will connect to when communicating with the JSS.

After you complete the JSS Setup Assistant, you can click the setup tips that are displayed onscreen to start configuring commonly used settings.

You may also want to make changes to the following pre-configured settings to ensure they meet the needs of your organization. These settings are important because over time, they can significantly affect the size of your database and your levels of network traffic:

- "Update Inventory" policy—Determines how often computers submit inventory to the JSS.
 For more information, see "Computer Inventory Collection" in the Casper Suite Administrator's Guide.
- **Recurring check-in frequency**—Determines the interval at which computers check in with the JSS for available policies.
 - For more information, see "Recurring Check-in Frequency" in the Casper Suite Administrator's Guide.
- **Mobile device inventory collection frequency**—Determines how often mobile devices submit inventory to the JSS.
 - For more information, see "Mobile Device Inventory Collection Settings" in the *Casper Suite Administrator's Guide*.

Related Information

For related information, see the following Knowledge Base article:

Network Ports Used by the Casper Suite

Learn about the network ports that you may need to configure when setting up the JSS.

JSS User Accounts and Groups

The Jamf Software Server (JSS) is a multi-user application. JSS user accounts and groups allow you to grant different privileges and levels of access to each user.

When configuring a JSS user account or group, you can grant access to the full JSS or to a specific site. You can grant privileges by choosing one of the following privilege sets:

- Administrator—Grants all privileges.
- Auditor—Grants all read privileges.
- Enrollment Only—Grants all privileges required to enroll computers and mobile devices.
- **Custom**—Requires you to grant privileges manually.

If there are multiple users that should have the same access level and privileges, you can create a group with the desired access level and privileges and add accounts to it. Members of a group inherit the access level and privileges from the group. Adding an account to multiple groups allows you to grant a user access to multiple sites.

There are two ways to create JSS user accounts and groups: you can create standard accounts or groups, or you can add them from an LDAP directory service.

Important: It is recommended that you have at least one account that is not from an LDAP directory service in case the connection between the JSS and the LDAP server is interrupted.

The JSS User Accounts and Groups settings also allow you to do the following:

- Configure account preferences for each JSS user account.
- Configure the password settings in the Password Policy for all standard JSS user accounts.
- Unlock a JSS user account that is locked.

Requirements

To add accounts or groups from an LDAP directory service, you need an LDAP server set up in the JSS. (For more information, see "Integrating with LDAP Servers" in the *Casper Suite Administrator's Guide*.)

Creating a JSS User Group

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 4. Click JSS User Accounts & Groups ...
- 5. Click New .
- 6. Do one of the following:

- To create a standard JSS user group, select Create Standard Group and click Next.
- To add a JSS user group from an LDAP directory service, select Add LDAP Group and click Next.
 Then follow the onscreen instructions to search for and add the group.
- 7. Use the Group pane to configure basic settings for the group.
- 8. If you chose "Custom" from the **Privilege Set** pop-up menu, click the **Privileges** tab and select the checkbox for each privilege that you want to grant the group.
- 9. Click Save.

Creating a JSS User Account

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click **System Settings**.
- 4. Click JSS User Accounts & Groups 🏝 .
- 5. Click New .
- 6. Do one of the following:
 - To create a standard JSS user account, select Create Standard Account and click Next.
 - To add a JSS user account from an LDAP directory service, select **Add LDAP Account** and click **Next**. Then follow the onscreen instructions to search for and add the account.
- 7. On the Account pane, enter information about the account as needed.
- 8. Choose an access level from the **Access Level** pop-up menu:
 - To grant full access to the JSS, choose "Full Access".
 - To grant access to a site, choose "Site Access".
 Note: The "Site Access" option is only displayed if there are sites in the JSS. For more information on adding sites to the JSS, see "Sites" in the Casper Suite Administrator's Guide.
 - To add the account to a standard group, choose "Group Access".
 Note: The "Group Access" option is only displayed if there are standard groups in the JSS. For more information on creating groups, see Creating a JSS User Group.
- 9. Do one of the following:
 - If you granted the account full access or site access, choose a privilege set from the Privilege Set pop-up menu. Then, if you chose "Custom", click the Privileges tab and select the checkbox for each privilege that you want to grant the account.
 - If you added the account to a group, click the **Group Membership** tab and select the group(s) you want to add the account to.
- 10. Click Save.

Configuring Account Preferences

You can configure Language & Region and Search preferences for each JSS user account. Language & Region preferences allow you to configure settings such as date format and time zone. Search preferences allow you to configure settings for computer, mobile device, and user searches.

- 1. Log in to the JSS with a web browser.
- 2. At the top of the page, click the disclosure triangle next to your username and then click **Preferences**.
- 3. Click the **Language & Region** tab and use the pop-up menus to configure language and region preferences.
- 4. Click the **Search Preferences** tab and use the pop-up menus to configure search preferences. **Note:** The default search preference is "Exact Match". For most items, the option can be changed to either "Starts with" or "Contains".
- 5. Click Save.

Configuring the Password Policy

The Password Policy in the JSS allows you to configure the password settings. The Password Policy applies to all standard JSS user accounts. You can configure the following password settings:

- Number of login attempts allowed before a JSS user is locked out of the account
- Password length and age
- Password reuse limitations
- Password complexity
- Settings to allow a user to unlock their own account

Note: The settings configured in the Password Policy do not apply to JSS user accounts added from an LDAP directory service.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 4. Click JSS User Accounts & Groups ...
- 5. Click **Password Policy** .
- 6. Click Edit.
- 7. Use the settings on the pane to specify the password settings.
- 8. Click Save.

The settings are applied immediately.

Unlocking a JSS User Account

A JSS user could be locked out of their account if they exceed the specified number of allowed login attempts. If the Password Policy is configured to allow the user to unlock their account, the user can reset their password to unlock their account. In this case, an email is immediately sent to the email address associated with the account in the JSS allowing the user to unlock their account by resetting their password. For an email to be sent, an SMTP server must be set up in the JSS. (For more information, see Integrating with an SMTP Server.)

In addition, a JSS user account that is locked can be manually unlocked from the JSS by another JSS user with the Administrator privilege set.

The access status of the account is displayed as "Disabled" in the JSS until the account is unlocked.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click **System Settings**.
- 4. Click JSS User Accounts & Groups ... A list of JSS user accounts and groups is displayed.
- 5. Click the JSS user account that has an access status of "Disabled", which means the account is locked.
- 6. Click Edit.
- 7. Choose "Enabled" from the **Access Status** pop-up menu to unlock the account.
- 8. Click Save.

The JSS user account is unlocked immediately.

Related Information

For related information, see the following section in the Casper Suite Administrator's Guide:

"Sites"

Learn about sites and how to add them to the JSS.

Activation Code

The Activation Code settings in the Jamf Software Server (JSS) allow you to update the activation code for your license. You can also change the organization name associated with the license and view licensing information.

Updating the Activation Code

Every time you receive a new activation code, it must be updated in the JSS.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 4. Click **Activation Code** 4.
- 5. Click Edit.
- 6. Enter the new activation code.
- 7. Click Save.

Integrating with an SMTP Server

Integrating with an SMTP server allows you to do the following:

- Send email notifications to Jamf Software Server (JSS) users when certain events occur. (For more information, see "Email Notifications" in the Casper Suite Administrator's Guide.)
- Send enrollment invitations via email.
- Send mass emails to end users.

To integrate with an SMTP server, you need to configure the SMTP Server settings in the JSS.

Configuring the SMTP Server Settings

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 4. Click SMTP Server .
- 5. Click Edit.
- 6. Configure the settings on the pane.
- 7. Click Save.

Testing the SMTP Server Settings

Once the SMTP Server settings are configured, you can send a test email from the JSS.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 4. Click **SMTP Server** .
- 5. Click Test.
- 6. Enter a test email address and click **Test** again.

A message displays, reporting whether or not the email was sent successfully.

Related Information

For related information, see the following sections in the Casper Suite Administrator's Guide:

- "Email Notifications"
 Learn about the different email notifications that can be sent JSS users.
- "User-Initiated Enrollment for Computers"
 Find out how to send computer enrollment invitations via email.
- "User-Initiated Enrollment for Mobile Devices"
 Find out how to send mobile device enrollment invitations via email.
- "Performing Mass Actions for Computers"Find out how to send a mass email to computer users.
- "Performing Mass Actions for Mobile Devices"
 Find out how send a mass email to mobile device users.

Change Management

Change Management allows you to track the changes that happen in the Jamf Software Server (JSS), such as the creation of a JSS user account. The Change Management settings in the JSS allow you to log those changes to a log file (JAMFChangeManagement.log) on the JSS host server and/or log the changes to a syslog server.

The Change Management logs can also be viewed in the JSS. The information displayed includes:

- Date/time the change took place
- Username of the administrator who made the change
- Object type (such as a JSS user account)
- Object name (such as the username of a JSS user account)
- Action (such as "Created")
- Details about the change

In addition, you can view the changes to a specific object in that object's history. (For more information, see "Viewing the History of a JSS Object" in the *Casper Suite Administrator's Guide*.)

Requirements

To log changes to a log file, the account used to run Tomcat must have write permissions for the directory where the JAMFChangeManagement.log file is located.

Configuring the Change Management Settings

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 5. Click Edit.
- 6. Configure the settings on the pane.
- 7. Click Save.

Viewing Change Management Logs in the JSS

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** ...
- 3. Click System Settings.
- 5. Click **Logs**.
 The Change Management logs are displayed on the pane.
- 6. Do one of the following:
 - To view the object associated with a change, click the object in the Object Name column.
 - To view details about the change, click **Details** in the Details column.

Related Information

For related information, see the following Knowledge Base article:

Change Management with the Casper Suite: macOS Setup Guide

If you are hosting the JSS on a server with macOS Server installed, learn about setting up the syslogd utility so you can log changes to a syslog server.

Integrating with GSX

Integrating with Apple's Global Service Exchange (GSX) allows you to look up and populate the following purchasing information for computers and mobile devices:

- Purchase date
- Warranty expiration date
- Apple Care ID (warranty reference number)

Note: GSX may not always return complete purchasing information. Only the information found in GSX is returned.

To integrate with GSX, you need to configure the GSX Connection settings in the JSS, which involves entering GSX account information and uploading an Apple certificate.

You can also use the JSS to test the connection and upload a renewed Apple certificate when needed.

Requirements

To configure the GSX Connection settings, you need:

- A GSX account with the "Manager" role, access to Web Services, and access to coverage/warranty information
- An Apple certificate (.pem or .p12)

For instructions on creating a GSX account and obtaining an Apple certificate, see the <u>Integrating</u> with Apple's Global Service Exchange (GSX) Knowledge Base article.

Configuring the GSX Connection Settings

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Global Management.
- 4. Click GSX Connection 💂.
- 5. Click Edit.
- Select Enable Connection to GSX.

Note: This and some of the other settings on this pane may already be configured if the JSS was used to generate a CSR.

- 7. Enter the username and account number for the GSX account.
- 8. Configure the region and URI settings as needed.
- 9. Select **Certificate-based Authentication** and click **Upload**.

10. Follow the onscreen instructions to upload the Apple certificate (.pem or .p12).

Testing the GSX Connection

Once the GSX Connection settings are configured, you can test the connection to make sure it works.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Global Management.
- 4. Click **GSX Connection** ...
- 5. Click Test.
- 6. Click Test again.

A message displays, reporting the success or failure of the connection.

Renewing the Apple Certificate

You can use the JSS to upload a renewed Apple certificate without removing the existing certificate so the connection with GSX is not lost. A notification is displayed 31 days prior to the expiration date of the Apple certificate.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Global Management.
- 5. Click Edit.
- 6. Click Renew.
- 7. Follow the onscreen instructions to upload a renewed Apple certificate.

Related Information

For related information, see the following sections in the Casper Suite Administrator's Guide:

- "Performing Mass Actions for Computers"
 Find out how to mass look up and populate purchasing information from GSX.
- "Performing Mass Actions for Mobile Devices"
 Find out how to mass look up and populate purchasing information from GSX.

- "Viewing and Editing Inventory Information for a Mobile Device"
 You can look up and populate purchasing information for a single mobile device by editing the device's inventory information in the JSS.
- "Viewing and Editing Inventory Information for a Computer"
 You can look up and populate purchasing information for a single computer by editing the computer's inventory information in the JSS.
- "Local Enrollment Using Recon"
 Find out how to look up and populate purchasing information when enrolling a computer by running Recon locally.
- "Remote Enrollment Using Recon"
 Find out how to look up and populate purchasing information when enrolling a computer by running Recon remotely.

JSS Summary

The JSS Summary is a custom report that allows you to view information about your Jamf Software Server (JSS). The JSS Summary can be useful for troubleshooting JSS issues, and for providing information to Jamf for purposes of support or license renewal.

By default, the JSS Summary includes the following information about the JSS:

- Number of managed and unmanaged computers
- Number of managed mobile devices
- Operating system on the JSS host server
- Path to the JSS web application
- Apache Tomcat version
- Information about the version of Java installed on the JSS host server
- Information about the MySQL connection and configuration

You can also add information to the JSS Summary from the following categories as needed:

- Computers
- Mobile Devices
- Users
- System Settings
- Global Management
- Computer Management
- Computer Management–Server Infrastructure
- Computer Management–Management Framework
- Mobile Device Management
- Network Organization
- Database

You can view the JSS Summary in a browser window or send the JSS Summary to Jamf.

Requirements

To send the JSS Summary to Jamf, you need a valid Jamf Nation account.

To create a Jamf Nation account, go to: https://www.jamf.com/jamf-nation/users/new

Viewing the JSS Summary

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click JSS Information.
- 4. Click JSS Summary 2.
- 5. Select the checkboxes next to the items you want to include.
- Click Create.The JSS Summary displays in a browser window.
- 7. Click the **Back** button in the web browser to return to the JSS Summary pane in the JSS.

Sending the JSS Summary to Jamf

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click JSS Information.
- 4. Click JSS Summary 2.
- 5. Select the checkboxes next to the items you want to include.
- 6. Click **Send Summary to Jamf**.
- 7. Enter your Jamf Nation credentials, and then click **Send**.

The JSS Summary is sent to Jamf via Jamf Nation.

Related Information

For information about Customer Experience Metrics (CEM), see the following Knowledge Base article:

Customer Experience Metrics

Learn about Customer Experience Metrics and how to configure the setting in your JSS environment.

For additional information about Customer Experience Metrics, visit the following webpage: https://www.jamf.com/products/jamf-pro/customer-experience-metrics/



About Distribution Points

Distribution points are servers used to host files for distribution to computers and mobile devices. The following types of files can be distributed from a distribution point using the Casper Suite:

- Packages
- Scripts
- In-house apps
- In-house eBooks

The Casper Suite supports three types of distribution points:

- File share distribution points
- A cloud distribution point
- Jamf Distribution Server (JDS) instances

You can use any combination of these types of distribution points.

By default, the first distribution point you add to the Jamf Software Server (JSS) is the master distribution point. The master distribution point is used by all other distribution points as the authoritative source for all files during replication. You can change the master distribution point at any time.

When planning your distribution point infrastructure, it is important to understand the differences between each type of distribution point. The following table explains the key differences:

	File Share Distribution Point	Cloud Distribution Point	JDS Instance
Description	Standard server that is configured to be a distribution point	Distribution point that uses one of the following content delivery networks (CDNs) to host files:	Distribution point that is managed by the JSS, similar to a computer or mobile device
		Rackspace Cloud FilesAmazon Web ServicesAkamai	
Maximum Number per JSS	Unlimited	One	Unlimited
Server /Platform Requirements	Any server with an Apple Filing Protocol (AFP) or Server Message Block (SMB) share	None	Mac or Linux

	File Share Distribution Point	Cloud Distribution Point	JDS Instance
Protocol	AFP, SMB, HTTP, or HTTPS	HTTPS	HTTPS
Ports	AFP: 548SMB: 139HTTP: 80HTTPS: 443	443	443
Authentication Options	 AFP or SMB: No authentication Username and password HTTP or HTTPS: No authentication Username and password Certificatebased authentication 	None	 No authentication Certificate-based authentication
Files that Can Be Hosted	PackagesScripts	 Packages In-house apps In-house eBooks Note: If you use the cloud distribution point, scripts are stored in the jamfsoftware database. 	 Packages In-house apps In-house eBooks Note: If you use one or more JDS instances, scripts are stored in the jamfsoftware database.
Parent-Child Capabilities	No	No	Yes
File Replication Method	Replication to file share distribution points must be initiated from Casper Admin.	Replication to a cloud distribution point must be initiated from Casper Admin.	Replication to root JDS instances must be initiated from Casper Admin. Replication to non-root JDS instances happens automatically and immediately.

	File Share Distribution Point	Cloud Distribution Point	JDS Instance
Selective Replication	Not available when replicating to file share distribution points.	Available when replicating to a cloud distribution point if the master distribution point is a JDS instance or file share distribution point. The files for replication must be specified in the JSS and the replication initiated from Casper Admin.	Not available when replicating to root JDS instances. Available when replicating to non-root JDS instances. The files for replication must be specified in the JSS. The replication from non-root parent to child instances is initiated on check in with the JSS.

Related Information

For related information, see the following sections in this guide:

- File Share Distribution Points
 Find out how to manage file share distribution points in the JSS.
- Cloud Distribution Point
 Find out how to manage the cloud distribution point.
- Jamf Distribution Server Instances
 Find out how to install and manage JDS instances.

File Share Distribution Points

Any server with an AFP or SMB share can be used as a file share distribution point. Before you can use a file share distribution point with the Casper Suite, you must set up the distribution point and add it to the Jamf Software Server (JSS).

For information on setting up a file share distribution point, see the following Knowledge Base article: Setting Up a File Share Distribution Point

When you add a file share distribution point to the JSS, you can do the following:

- Make it the master distribution point.
- Choose a failover distribution point.
- Configure HTTP downloads.

Adding a File Share Distribution Point

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Server Infrastructure.
- 4. Click **File Share Distribution Points** a.
- 5. Click New +.
- 6. Use the General pane to configure basic settings for the distribution point.
- 7. Click the **File Sharing** tab and enter information about the AFP or SMB share.
- 8. (Optional) Click the **HTTP** tab and configure HTTP downloads.
- 9. Click Save.

Replicating Files to a File Share Distribution Point

During replication, all files on the master distribution point are replicated to the file share distribution point that you choose.

- 1. Open Casper Admin and authenticate to the JSS.
- 2. In the sidebar, select the file share distribution point you want to replicate files to.
- 3. Click Replicate.

Related Information

For related information, see the following section in the Casper Suite Administrator's Guide:

"Network Segments"

You can use network segments to ensure that computers and mobile devices use the closest distribution point by default.

For related information, see the following Knowledge Base articles:

- Setting Up a File Share Distribution Point on Linux Using Samba
 Find out how to use Samba to set up a file share distribution point with an SMB share on a Linux server.
- <u>Using Apache HTTP Server to Enable HTTP Downloads on a Linux File Share Distribution Point</u>
 Find out how to use Apache HTTP Server to enable HTTP downloads on a Linux file share distribution point.
- <u>Using IIS to Enable HTTP Downloads on a Windows Server 2008 File Share Distribution Point</u>
 Find out how to activate Internet Information Services (IIS) and use it to enable HTTP downloads on a Windows Server 2008 file share distribution point.

Cloud Distribution Point

The cloud distribution point uses a content delivery network (CDN) to host packages, in-house apps, and in-house eBooks. The Jamf Software Server (JSS) supports the following content delivery services:

- Rackspace Cloud Files
- Amazon S3 or Amazon CloudFront
- Akamai NetStorage
- Jamf Cloud Distribution Service (JCDS)

When you configure the cloud distribution point in the JSS, you can choose to make it the master. You can also choose whether to replicate specific files or the entire contents of the master distribution point if the master is a JDS instance or file share distribution point.

The JSS supports the use of signed URLs created with Amazon CloudFront. It also supports Akamai Remote Authentication. For more information about signed URLs created with CloudFront, see the following website:

http://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-signed-urls.html

For more information about Akamai Remote Authentication, contact your Akamai Account Manager.

Requirements

If you plan to use Akamai for your cloud distribution point, Akamai must be configured to use File Transfer Protocol (FTP).

Note: If you have upgraded from the Casper Suite v8.x, you must migrate the scripts and packages on your master distribution point before configuring the cloud distribution point. (For more information, see the <u>Migrating Packages and Scripts</u> Knowledge Base article.)

Files that are uploaded to a cloud distribution point cannot have filenames that include the following characters:

/:?<>*|"[]@!%^#

Configuring the Cloud Distribution Point

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Server Infrastructure.
- 4. Click Cloud Distribution Point .
- 5. Click Edit.
- 6. Choose a content delivery network from the **Content Delivery Network** pop-up menu.
- 7. Configure the settings on the pane.
- 8. Click Save.

Testing the Cloud Distribution Point

Once the cloud distribution point is configured, you can test the connection to the content delivery network.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Server Infrastructure.
- 4. Click Cloud Distribution Point .
- 5. Click Test.
- 6. Click Test again.

A message displays, reporting the success or failure of the connection.

Replicating Files to the Cloud Distribution Point

During replication, files on the master distribution point are replicated to the cloud distribution point via Casper Admin. The files that are replicated depend on whether the cloud distribution point is configured to replicate specific files or the entire contents of the master.

- 1. Open Casper Admin and authenticate to the JSS.
- 2. In the sidebar, select the cloud distribution point you want to replicate files to.
- 3. Click Replicate.

Related Information

For related information, see the following section in the Casper Suite Administrator's Guide:

"Network Segments"

You can use network segments to ensure that computers and mobile devices use the closest distribution point by default. For related information, see the following Knowledge Base article:

<u>Information Required to Configure a Cloud Distribution Point in the JSS</u>

Learn about the information that must be obtained from your cloud services provider to configure the cloud distribution point in the JSS.

For more information about content delivery services, visit the following websites:

- Rackspace Cloud Files http://www.rackspace.com/cloud/files/
- Amazon S3 http://aws.amazon.com/s3/
- Amazon CloudFront http://aws.amazon.com/cloudfront/
- Akamai NetStorage
 http://www.akamai.com/html/solutions/netstorage.html
- Jamf Cloud Distribution Service <u>http://www.jamfsoftware.com/products/jamf-cloud/</u>

Jamf Distribution Server Instances

Requirements

The JDS Installer for Mac requires a computer with:

- An Intel processor
- 2 GB of RAM
- 100 GB of disk space available
- macOS 10.7 or later with macOS Server 1.4.3 or later installed

The JDS Installer for Linux requires a computer with:

- An Intel processor
- 2 GB of RAM
- 100 GB of disk space available
- One of the following operating systems:
 - Ubuntu 10.04 LTS Server
 - Ubuntu 12.04 LTS Server
 - Red Hat Enterprise Linux (RHEL) 6.4, 6.5, 6.6, or 7.0
 Note: To install a JDS instance on a Linux operating system that is running on a virtual machine, you need a virtualization platform that provides SMBIOS information.

To manage JDS instances in the JSS, you need a valid SSL certificate on the JSS host server. (For more information, see SSL Certificate.)

Note: If you have upgraded from the Casper Suite v8.x, you must migrate the scripts and packages on your master distribution point before configuring JDS instances. (For more information, see the <u>Migrating Packages and Scripts</u> Knowledge Base article.)

Installing a JDS Instance on Mac

1. Copy the JDS Installer for Mac (JDS Installer.pkg) to the server on which you plan to install a JDS instance.

Note: To obtain the JDS Installer for Mac, log in to Jamf Nation and go to the following page: https://www.jamf.com/jamf-nation/my/products

- 2. Double-click the installer.
- 3. Follow the onscreen instructions to complete the installation.

Installing a JDS Instance on Linux

1. Copy the JDS Installer for Linux (JDS Installer.run) to the server on which you plan to install a JDS instance.

Note: To obtain the JDS Installer for Linux, log in to Jamf Nation and go to the following page: https://www.jamf.com/jamf-nation/my/products

- 2. Log in to the server as a user with superuser privileges.
- 3. Initiate the installer by executing a command similar to the following:

```
sudo /path/to/JDS Installer.run
```

- 4. When prompted, enter the JDS hostname. For example, "jds.mycompany.com".
- 5. When prompted, enter the JSS URL. For example, "https://jss.mycompany.com:8443/".
- 6. When prompted, enter credentials for a JSS user account with the "JDS" privilege.
- 7. Follow the onscreen instructions to complete the installation.

Configuring a JDS Instance

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Server Infrastructure.
- 4. Click **JDS Instances** .



- 5. Click the JDS instance you want to configure.
- 6. Click Edit.
- 7. Use the General pane to configure basic settings for the JDS instance.
- 8. Click the **Distribution Point** tab and configure distribution settings.
- 9. Click Save.

Replicating Files to the Root JDS Instance

During replication, all files on the master distribution point are replicated to the root JDS instance. Then, files are replicated to child JDS instances from their non-root parent instances on check in with the JSS. The files that are replicated to non-root JDS instances depend on whether each instance is configured to replicate specific files or the entire contents of their parent JDS instance.

- 1. Open Casper Admin and authenticate to the JSS.
- 2. In the sidebar, select the root JDS instance.
- 3. Click Replicate.

Viewing the Progress of File Replication

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Server Infrastructure.

- 4. Click JDS Instances .
- 5. Click **Grid View** at the top of the list.

The progress of file replication for each JDS instance is displayed. If your master distribution point is a JDS instance, it is marked with two asterisks (**). If your master distribution point is a different type of distribution point, the root instance is marked with a single asterisk (*).

Viewing Inventory Information for a JDS Instance

The JSS displays the following inventory information for each JDS instance:

- Whether or not it is the master distribution point
- Whether or not it is the root instance
- Hostname
- URL
- Reported IP address
- jamfds binary version
- Operating system
- Operating system version
- Total memory
- Available memory
- Hard drive size
- Hard drive used space
- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Server Infrastructure.
- 4. Click **JDS Instances** .
- 5. Click the JDS instance you want to view inventory information for.

Related Information

For related information, see the following section in the Casper Suite Administrator's Guide:

"Network Segments"

You can use network segments to ensure that computers and mobile devices use the closest distribution point by default.

For related information, see the following Knowledge Base articles:

- Components Installed on JDS Instances
 Find out what items are installed on JDS instances.
- Changing JDS Hierarchy
 Learn about the implications of changing your JDS hierarchy.
- Uninstalling a JDS Instance
 Find out how to uninstall a JDS instance.

Jamf Infrastructure Manager Instances

A Jamf Infrastructure Manager instance is a service that is managed by the Jamf Software Server (JSS). It can be used to host the following:

- LDAP Proxy—This allows traffic to pass securely between a JSS and an LDAP directory service. The
 Infrastructure Manager and the LDAP Proxy typically reside within the DMZ.
 The LDAP Proxy requires integration with an LDAP directory service.
 For more information, see "LDAP Proxy" in the Casper Suite Administrator's Guide.
- Healthcare Listener—This allows traffic to pass securely from a healthcare management system to a JSS.

For more information, see "Healthcare Listener" in the Casper Suite Administrator's Guide.

When you install an instance of the Infrastructure Manager, the JSS allows you to enable the LDAP Proxy or the Healthcare Listener. Infrastructure Manager instances can be installed on Linux and Windows. For more information, see the <u>Jamf Infrastructure Manager Installation Guide</u>.

Viewing Inventory Information for a Jamf Infrastructure Manager Instance

The JSS displays the following inventory information for each Infrastructure Manager instance:

- Last Check-in
- IP Address at Last Check-in
- Operating System
- Operating System Version
- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click Computer Management.
- 4. In the "Computer Management–Server Infrastructure" section, click **Infrastructure Managers** A list of Infrastructure Manager instances is displayed along with the services that are installed on each instance.
- 5. Click the Infrastructure Manager instance you want to view inventory information for.

Further Considerations

• When editing an Infrastructure Manager instance, only the display name and recurring check-in frequency can be changed.

Note: The default check-in frequency at which the Infrastructure Manager instance checks in with the JSS is 30 seconds.

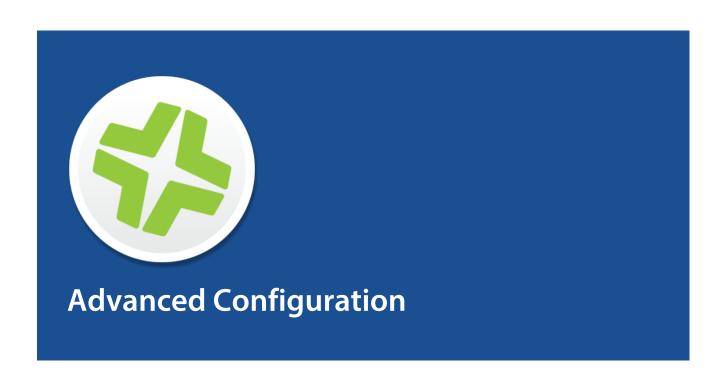
- An Infrastructure Manager instance cannot be deleted if there are dependencies for the Infrastructure Manager. For example, an Infrastructure Manager cannot be deleted if there is an LDAP Proxy hosted on it. To delete the Infrastructure Manager, you must first disable the LDAP Proxy.
- If a Healthcare Listener is hosted on the Infrastructure Manager, the Healthcare Listener is deleted when the Infrastructure Manager is deleted.

Related Information

For related information, see the following section in the Casper Suite Administrator's Guide:

"Email Notifications"

Learn how to enable an email notification in the event that an Infrastructure Manager instance does not check in with the JSS.



SSL Certificate

The Jamf Software Server (JSS) requires a valid SSL certificate to ensure that computers and mobile devices communicate with the JSS and not an imposter server.

The Apache Tomcat settings in the JSS allow you to create an SSL certificate from the CA that is built into the JSS. You can also upload the certificate keystore for an SSL certificate that was obtained from an internal certificate authority (CA) or a trusted third-party vendor.

Note: If your environment is hosted in Jamf Cloud, the Apache Tomcat settings are managed by Jamf Cloud and are not accessible.

Requirements

To create or upload an SSL certificate, the JSS must be installed as the "ROOT" web application, and the user running the Tomcat process must have read/write access to Tomcat's server.xml file.

Creating or Uploading an SSL Certificate

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 4. Click Apache Tomcat Settings 👛 .
- 5. Click Edit.
- 6. Select Change the SSL certificate used for HTTPS and click Next.
- 7. Follow the onscreen instructions to upload or create an SSL certificate.
- 8. Restart Tomcat for the changes to take effect.
 For instructions on how to restart Tomcat, see the following Knowledge Base article:
 Starting and Stopping Tomcat

Related Information

For related information, see the following Knowledge Base article:

Using OpenSSL to Create a Certificate Keystore for Tomcat

Find out how to use OpenSSL to create a certificate keystore that you can upload to the JSS.

Configuring Tomcat to Work with a Load Balancer

When the Jamf Software Server (JSS) is behind a load balancer, you must configure the remote IP valve, proxy port, and scheme in Tomcat's server.xml file. The Load Balancing settings in the JSS allow you to configure these settings without having to edit the server.xml file manually.

Requirements

To configure Load Balancing settings using the JSS, the JSS must be installed as the "ROOT" web application, and the user running the Tomcat process must have read/write access to Tomcat's server.xml file.

Configuring Load Balancing Settings

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- Click System Settings.
 On a smartphone or iPod touch, this option is in the pop-up menu.
- 5. Click Edit.
- 6. Select **Configure Tomcat for working behind a load balancer** and click **Next**.
- 7. Follow the onscreen instructions to configure the Load Balancing settings.
- 8. Restart Tomcat for the changes to take effect.
 For instructions on how to restart Tomcat, see the following Knowledge Base article:
 Starting and Stopping Tomcat

Tomcat Thread Pool Settings

Configuring the Tomcat Thread Pool settings using the Jamf Software Server (JSS) allows you to make modifications to Tomcat's server.xml file without having to edit it manually.

Requirements

To configure Tomcat Thread Pool settings using the JSS, the JSS must be installed as the "ROOT" web application, and the user running the Tomcat process must have read/write access to Tomcat's server.xml file.

Configuring Tomcat Thread Pool Settings

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click **System Settings**.
 On a smartphone or iPod touch, this option is in the pop-up menu.
- 4. Click Apache Tomcat Settings 👛 .
- 5. Click Edit.
- 6. Select Update the settings for Tomcat's thread pool and click Next.
- 7. Follow the onscreen instructions to configure the Thread Pool settings.
- 8. Restart Tomcat for the changes to take effect.
 For instructions on how to restart Tomcat, see the following Knowledge Base article:
 Starting and Stopping Tomcat

JSS Web Application Memory

The Jamf Software Server (JSS) allows you to view the amount of memory being used by the web application. If you need to change the amount of memory allocated to the web application, you can use the JSS Database Utility to do so.

Viewing Memory Usage

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- Click JSS Information.
 On a smartphone or iPod touch, this option is in the pop-up menu.
- 4. Click **Memory Usage** ... A pie chart of used and available memory is displayed.

Configuring Web Application Memory

- 1. Open the JSS Database Utility on the JSS host server. The JSS Database Utility is located in: /Library/JSS/bin/JSSDatabaseUtil.jar
- 2. Enter the username and password for an administrator account to the server, and then click **OK**.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to enter the path. Click **Continue** and enter the full path to the binary.
- 4. From the menu bar, choose **Utilities** > **Change Tomcat settings**.
- 5. Use the Maximum Memory and Minimum Memory sliders to configure the amount of memory allocated to the web application.



- 6. Click Apply Settings.
- 7. When prompted to restart Tomcat, click Yes.

Tomcat PermGen Size

You can use the JSS Database Utility to configure the minimum and maximum PermGen sizes for Tomcat.

Note: When upgrading from Tomcat 7 to Tomcat 8, the minimum and maximum PermGen sizes are automatically reset to 256 MB. When using Java 1.8, PermGen sizes do not need to be set.

Configuring Tomcat PermGen Size

- Open the JSS Database Utility on the JSS host server. The JSS Database Utility is located in: /Library/JSS/bin/JSSDatabaseUtil.jar
- 2. Enter the username and password for an administrator account to the server, and then click OK.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to enter the path. Click **Continue** and enter the full path to the binary.
- 4. From the menu bar, choose **Utilities** > **Change Tomcat settings**.
- 5. Use the PermGen Size sliders to configure the minimum and maximum PermGen sizes as needed.



- 6. Click Apply Settings.
- 7. When prompted to restart Tomcat, click **Yes**.

Viewing the Status of Database Tables

MySQL database tables can become corrupt if the database was not shut down properly or if the Jamf Software Server (JSS) host server is too slow to manage the number of computers in your organization. You can view the status of database tables right from the JSS.

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click **JSS Information**. On a smartphone or iPod touch, this option is in the pop-up menu.
- 4. Click Database Table Status 4.

Clustering

A clustered environment is one that has multiple instances of the Jamf Software Server (JSS) web application pointing to the same database. Clustering is useful in large environments that require multiple web applications, or environments with a web application in the DMZ.

When setting up a clustered environment, it is recommended that you configure the Clustering settings in the JSS using the web application that you plan to make the master, and then install other JSS web applications that point to the same database. However, if you already have multiple JSS web applications installed and pointed to the same database, you can configure the Clustering settings in the JSS after the fact. (For more information on setting up a clustered environment, contact Jamf Support.)

The Clustering settings in the JSS allow you to configure the frequency at which clustered web applications are synced with the database, and specify which web application should function as the master.

The master web application handles tasks such as upgrading the database schema and flushing logs from the database.

The JSS also allows you to view a list of web applications that are pointed to the same database and information about them.

Requirements

To cluster web applications that are not in the DMZ, you need a load balancer with the address of the JSS. For example:

https://jss.mycompany.com:8443/

The load balancer should route traffic to the servers running the web application.

Configuring Clustering Settings

- 1. Log in to the JSS web application with a web browser.
- 2. In the top-right corner of the page, click **Settings** ...
- 3. Click **System Settings**.
 On a smartphone or iPod touch, this option is in the pop-up menu.
- 4. Click **Clustering** .
- Click Edit.
- Configure the settings on the pane.
 To specify which web application should function as the master, select the **Master** option for the web application.

- 7. Click Save.
- 8. If you already have multiple JSS web applications pointed to the same database, restart Tomcat on any of the web applications for the changes to take effect.

For instructions on how to restart Tomcat, see the following Knowledge Base article: <u>Starting and Stopping Tomcat</u>

Related Information

For related information, see the following Knowledge Base articles:

Caching Configuration

Find out how to configure distributed caching for clustered JSS environments.

<u>Installing a JSS Web Application in the DMZ</u>

Find out how to install a web application in the DMZ, and learn when in the process you should configure the Clustering settings in the JSS.

Limited Access Settings

If you have a clustered environment, the Limited Access settings in the Jamf Software Server (JSS) allow you to disable the JSS interface and limit the types of devices that can communicate with the JSS. This is most commonly used if you have a web application in the DMZ.

For each JSS web application, you can choose one of the following Limited Access settings:

- Full Access
- Computer Access Only
- Mobile Device Access Only
- Computer and Mobile Device Access

Choosing anything other than "Full Access" disables the JSS interface.

Configuring the Limited Access Settings

- 1. Log in to any of the JSS web applications with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click **System Settings**.
 On a smartphone or iPod touch, this option is in the pop-up menu.
- 5. Select a setting for each JSS web application as needed.
- 6. Click Save.

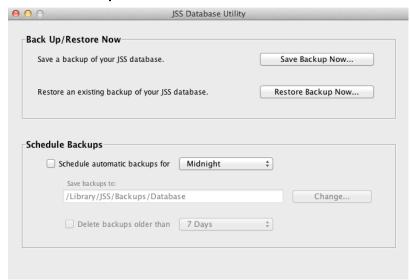
Backing Up the Database

You can create database backups as needed, or you can schedule database backups to be created automatically on a schedule. The time it takes to create a backup depends on the size of the database.

When you schedule database backups, you can also automate the deletion of scheduled backups that are older than a certain number of days.

Creating a Database Backup

- 1. Open the JSS Database Utility.
- 2. Enter the username and password for an administrator account to the server, and click **OK**.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to enter the path. Click **Continue** and enter the full path to the binary.
- 4. If the Database Connection Setup pane appears, configure the settings to match your database configuration and click **Apply Settings**.
- 5. Click Save Backup Now.



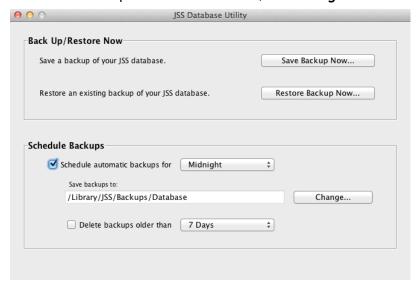
6. Select the location where you want to save the backup and click **Choose**.

The JSS Database Utility creates the backup and saves it as a .sql.gz file.

Scheduling Database Backups

- 1. Open the JSS Database Utility.
- 2. Enter the username and password for an administrator account to the server, and click OK.

- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to specify the path. Click **Continue** and enter the full path to the binary.
- 4. If the Database Connection Setup pane appears, configure the settings to match your database configuration and click **Apply Settings**.
- 5. Select the **Schedule automatic backups for** checkbox and choose the hour of the day that you want backups to occur.
- 6. To save the backups in a custom location, click **Change** and select a new location.



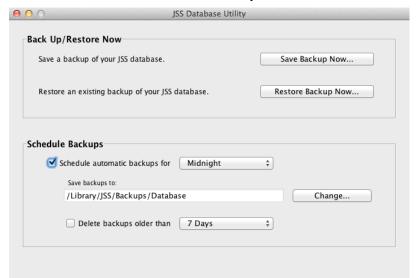
7. To automate the deletion of scheduled backups, select the **Delete backups older than** checkbox and choose the number of days after which backups should be deleted.

The JSS Database Utility creates daily backups at the hour you specified. It also deletes scheduled backups older than the number of days you specified.

Stopping Scheduled Database Backups

- 1. Open the JSS Database Utility.
- 2. Enter the username and password for an administrator account to the server, and click **OK**.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to enter the path. Click **Continue** and enter the full path to the binary.
- 4. If the Database Connection Setup pane appears, configure the settings to match your database configuration and click **Apply Settings**.

5. Deselect the **Schedule automatic backups for** checkbox.



The JSS Database Utility stops creating scheduled backups immediately.

Related Information

For related information, see the following section in this guide:

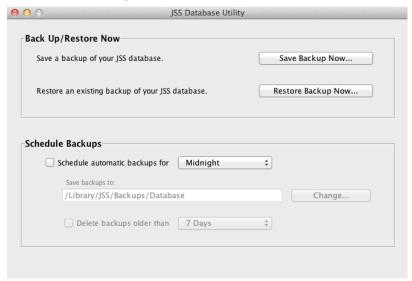
Restoring Database Backups

Find out how to restore a database backup.

Restoring Database Backups

If you need to revert to an earlier version of your database, you can restore a database backup.

- 1. Open the JSS Database Utility.
- 2. Enter the username and password for an administrator account to the server, and click **OK**.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to enter the path. Click **Continue** and enter the location of the binary.
- 4. If the Database Connection Setup pane appears, edit the settings to match your database configuration and click **Apply Settings**.
- 5. Click Restore Backup Now.



- 6. Select the backup that you want to restore (.sql or .sql.gz) and click **Choose**.
- 7. When prompted to restart Tomcat, click Yes.

The JSS Database Utility restarts Tomcat and replaces the current database with the one that you restored.

Flushing Logs

Flushing logs reduces the size of the database and can speed up searches. You can flush the following types of logs:

- Application Usage logs
- Computer Usage logs
- Policy logs
- Casper Remote logs
- Screen sharing logs
- Casper Imaging logs
- Computer and mobile device management history
- JDS management history
- Computer inventory reports (computer inventory information from past inventory submissions)
- Mobile device inventory reports (mobile device inventory information from past inventory submissions)
- JSS access logs
- Change Management logs
- Event logs

You can schedule log flushing to take place daily, or you can manually flush logs as needed. You can also choose to flush logs that are older than a certain number of days, weeks, or months.

For information on the types of data flushed with each log and the database tables affected, see the following Knowledge Base article:

Data and Tables Affected by Log Flushing

Scheduling Log Flushing

- 1. Log in to the JSS with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click **System Settings**.
- 4. Click **Log Flushing** .
- 5. Click Edit.
- 6. Use the pop-up menus to choose the number of days, weeks, or months after which each type of log should be flushed.

- 7. Choose a time of day from the **Time to Flush Logs Each Day** pop-up menu.
- 8. Click Save.

Manually Flushing Logs

- 1. Log in to any of the JSS web applications with a web browser.
- 2. In the top-right corner of the page, click **Settings** .
- 3. Click System Settings.
- 4. Click **Log Flushing** .
- 5. Click Flush Manually.
- 6. Select the checkbox for each type of log you want to flush.
- 7. From the **Flush Logs Older Than** pop-up menu, choose the number of days, weeks, or months after which logs should be flushed.
- 8. Click Flush.

A message displays, reporting the success or failure of the flush.

Related Information

For related information, see the following sections in the Casper Suite Administrator's Guide:

- "Viewing and Flushing Policy Logs for a Computer"
 Find out how to view and flush policy logs for a computer.
- "Viewing and Flushing Logs for a Policy"Find out how to view and flush logs for a policy.
- "Viewing the History for a Computer"Find out how to view the logs and the management history for a computer.
- "Viewing the Management History for a Mobile Device"
 Find out how to view the management history for a mobile device.

Migrating to Another Server

- 1. Back up the existing jamfsoftware database using the JSS Database Utility. For more information, see <u>Backing Up the Database</u>.
- 2. Ensure that the new server meets the requirements for the JSS Installer, and then follow the instructions in <u>Installing the JSS</u> to install the required software (if needed) and create the jamfsoftware database.
- 3. Copy the JSS Installer to the new server.
- 4. Install the JSS by launching the installer and following the onscreen instructions. For more information, see <u>Installing the JSS</u>.
- 5. Copy the database backup to the new server, and then use the JSS Database Utility to restore the backup.
 - For more information, see <u>Restoring Database Backups</u>.
- 6. Re-upload or create the SSL certificate. For more information, see <u>SSL Certificate</u>.
- Update the DNS entry to point to the new server's IP address.
 Note: If you can't change the DNS entry, you must change the JSS URL and re-enroll all mobile devices and computers.