Getting Started with LANrev MDM

macOS Version



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HEAT Software USA Inc., 490 N. McCarthy Blvd., Milpitas, California USA 95035.

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Getting Started with LANrev MDM

Introduction

Thank you for choosing LANrev! The LANrev suite is a uniquely seamless, multiplatform client management solution for managing all of your iOS and Android devices in a single unified console on a Windows or macOS computer, combining sophisticated profile management with inventory and tracking functions. You'll find that there are often multiple ways to accomplish the same task within LANrev so it's up to you to decide which one fits into your workflows and works best in your computing environment.

This guide is by no means comprehensive but is meant to help you quickly get up and running with LANrev in the shortest possible amount of time. It does not explain nor show you how to use some of the more advanced and subtle features of the suite. For more information or help with LANrev, the following resources are available:

- The built-in context sensitive help. This is accessible via the **Help** menu.
- The complete LANrev user guides. The macOS user guide PDF can be found at the root level of the distribution DMG disk image. The Windows user guide can be accessed from the LANrev program group in the Windows Start menu.
- The LANrev support forums at <u>community.heatsoftware.com/</u> <u>community/products/heat-unified-endpoint-management</u>.
- The LANrev tech notes at <u>http://support.heatsoftware.com</u>.
- LANrev technical support at <u>www.heatsoftware.com/support</u>.

Minimum system requirements

Server:

- macOS 10.6 or up
- Windows Vista or Server 2003 or above On Windows Server 2016, PowerShell 2.0 or above is required.

Admin:

- macOS 10.10 or up
- Windows Vista or Server 2003 or above

Mobile client:

- iOS 4.0 and up
- Android 2.2 and up

Preparing for MDM support

1. Get an SSL/TLS certificate for the computer on which you will install the MDM server. It must either be a wildcard certificate for the domain or a certificate specifically for the computer.

If the certificate is not signed by a root certification authority (CA), you also need the signer certificate of the CA which has signed your certificate.

- 2. Set up your firewall to allow connections from the MDM server to:
 - gateway.push.apple.com on port 2195 (if you want to manage iOS devices)
 - android.apis.google.com on port 443 (if you want to manage Android devices)

Installing LANrev Server

Installing LANrev Server is a very simple process. On a Mac, open LANrev Server.pkg; on a PC, open setup.exe for LANrev Server, accept the license agreement, and click **Next** or **Continue** through the rest of the prompts to complete the installation. You will be asked to authenticate with admin user credentials required to perform the installation.

Installing the LANrev admin console and activating LANrev

Upon first launch of the LANrev admin console you will be required to register your LANrev installation and create a default superadministrator account. Store this information in a safe place. You should create a separate admin account for everyday use instead of using the default superadministrator account.

 Copy the LANrev Admin application to the Applications folder. Launch the admin console. When prompted, enter the IP address or DNS name of your LANrev server (do not enter "localhost", "127.0.0.1", or "::1", even if the admin console is installed on the same computer as the server), leave the Name and Password fields blank, and click Login. Logging into the admin console for the first time

4. Click **Next** or **Continue** through the rest of the prompts until you reach the registration screen.

	Registration Information				
Introduction	Please enter your name, the name of your company, and the serial				
	number and activation key that you received with your LANrev package. To use LANrev as a 45-day demo, limited to ten users, enter your and your company's names and click the Demo button.				
Registration					
Server Setup					
Credentials					
Finish	Name:				
	Company:				
	Serial number:				
	Activation key:				
		Demo			

 At the registration dialog, enter your registration information. If you do not have any, complete the Name and Company fields and click the Demo button for a 45-day 10-seat evaluation. Then click Next or Continue until you reach the administrator setup screen.

	The second second second	
 Introduction Registration Server Setup Credentials Finish 	Enter below the infor superadministrator p desired; you can also (Superadministrators administrators. In pa administrators.) Account name:	ev, an administrator account must always exist. mation for the initial account with rivileges. You can later add more accounts as o modify the account your are specifying below. Is have more privileges than a normal rticular, they can set access rights for other uperadmin
	Verify password:	

6. Enter the username and password you want to use for the default superadministrator account. Click **Continue** and then **Setup**.

Logging into the admin console for the first time

Launch the LANrev Admin application. At the authentication dialog, enter the IP address or DNS name of your server and the credentials for the default superadministrator account you created previously.

Exporting an SSL certificate for the server

Setting up a LANrev installation requires you to specify an SSL certificate in several places to allow the system to authenticate the server. Export this certificate now:

1. In LANrev Admin. choose **Window** > Server Center.

The Server Center window is displayed.

2. In the sidebar at the left of the window, click **Server** > **Server** Settings.

The server settings are displayed in the main part of the window.

3. Click the **Save Certificate** button at the bottom right of the window.

A standard Save dialog is displayed.

4. Save the certificate in a convenient location.

You can name it as desired, as long as you keep the "pem" filename extension.

Installing the MDM server

1. Run the MDM server installer package on the computer where you want to install it. (This may be the computer on which LANrev Server is installed or a different one.)

When you are prompted for the website SSL certificate, specify the one you got from the CA (see "Installing the LANrev admin console and activating LANrev" on page 2).

When you are prompted for the LANrev Server certificate, specify the one you exported from the server (see "Exporting an SSL certificate for the server" on page 4).

When you are prompted for a DNS address, make sure to use the fully gualified form, not just the local part (e.g. "mdm.mycompany.com" instead of just "mdm").

- 2. On Windows, you are done. On macOS, you are not prompted for the certificates during the installation. Instead, rename the website certificate "lighttpd.pem" and the LANrev Server certificate "TrustedCertificates.pem" and copy both to /etc/lighttpd/certs.
- 3. If the LANrev Server certificate was signed with an intermediate certificate (as opposed to a CA root certificate), append the content of the intermediate certificate to the content of your certificate by executing the command cat IntermediateCA.pem >> TrustedCertificates.pem

(This assumes that your intermediate certificate is named IntermediateCA.pem.)

- 4. On the computer on which the MDM server is installed, open the /Library/Preferences/com.heatsoftware.LANrevMDMServer.plist file (using the Property List Editor utility) and enter in the AMServerHostname key the IP address or DNS name of the LANrev server.
- On the computer on which the MDM server is installed, start the MDM server by running the Start_MDM_Server.command shell script provided on the LANrev installation disk.

Importing the SSL key into the certificate

If you have received an SSL certificate that does not contain the SSL private key (e.g., a .p12 certificate), you must convert it. This procedure is not required if you already have a .pem certificate.

- 1. Import the certificate into the macOS Keychain, e.g., by dragging it into the main window of Keychain.
- 2. Export the certificate and key to disk in Personal Information Exchange (.p12) format.
- 3. Convert the resulting file to Privacy Enhanced Mail (.pem) format using the ConvertSSLCertificate.command script provided in the Extras folder on the LANrev installation image.

Configuring the LANrev server preferences

These settings affect the server and are stored on the server itself. Of particular importance are the database maintenance and backup settings for disaster recovery.

- 1. Choose Window > Server Center.
- Click Server Setup in the category bar at the top of the Server Center window and click Server > Server Settings in the left-hand sidebar.

General Client Info Titles License Monitoring ODBC	Export	Active Directory	MDM	Notification	FOG	NAG
Offline threshold:	15	minutes				
Maximum number of entries in license history:	1000					
Connection timeout:	3	seconds				
Maximum number of connections:	100					
Server admin port:	3971					
Server agent port:	3971					
MDM server port:	3971					
Use administrator information from server:	none			Set		
Use custom fields from server:	none			Set		
Discard device tracking data after:	30 da	ys				
Sackup database every	1 da	ys at 11:45	DM C	Run Now		
	keep 14	backups				
Run database maintenance every	1 da	ys at 11:00	M C	Run Now)	
	When ma	intenance fails	•		-	
	Sen	d e-mail:				
	Sen	d SMS:				
Server unique identifier: 9EB6012A-B3EE-4F4B-9AE4-45AF						
er certificate fingerprint: 66:28:37:4B:F9:DB:C7:03:0F:5F:AE	:67:59:C7:	7:D0:34:DE:B0:5	54		Save Ce	rtifica

3. In the **General** tab enable the database maintenance and backup.

Consult the LANrev Disaster Recovery Guide for best practices on configuring these settings. We recommend that you run the database maintenance every day, back up the database every three days, and keep seven backups. These values can be adjusted depending on the amount of free disk space available and the size of your LANrev databases.

4. If you plan on basing your LANrev admin accounts on Active Directory (AD) user accounts, switch to the **Active Directory** tab and enter the name of any user groups from which you want LANrev to be able to pull user accounts for this purpose. Your

Configuring the LANrev server preferences

LANrev server must be bound for AD for this to work. Click the plus sign and enter just the name of the desired AD user group itself.

General	Client Info Titles	License Monitoring	ODBC Export	Active Directory	MDM	Notification	FOG	NAC
	Active Directory groups to be displayed in the Server Center's Administration section:							
	Administra	ators						
	+ -							
	Domain	ectory domain crede	Usernam	-				
	Johnan		Userian					
	+ -							

- 5. In the **MDM** tab, enter:
 - A descriptive name for the deployment profile in the **Profile name** field
 - A unique identifier for the profile in the **Profile identifier** field
 - The name of your organization in the **Organization** field
 - A text explaining the profile's purpose to mobile users in the **Description** field

If you want to manage iOS devices, click the upper **Configure** button and create or select an Apple push certificate.

If you want to manage Windows Phone devices, fill in the Microsoft Exchange Server information as well.



Setting up an admin hierarchy

Sufficient care should be taken in determining who on your IT staff has access to which computers and what they can do on them. LANrev's granular role-based administration model allows you to do just that. The following instructions will show you how to add a regular superadministrator account for yourself for everyday usage.

- 1. Choose **Window** > **Server Center**.
- Click Administrators in the category bar at the top of the Server Center window and click Administration > Administrators in the left-hand sidebar.
- Right-click Administrators and choose Administrator Setup > New Administrator from the context menu.
- 4. Fill in the **Name**, **Password**, and **Verify** fields, enable the **Superadministrator** and **Can manage all computers** options, and click **OK**.
- To create a LANrev admin account based on an Active Directory account, click Administration > Active Directory in the left-hand sidebar and then drag an Active Directory user account from the right-hand pane onto the Administrators entry in the left-hand sidebar.

6. Quit the LANrev admin console and log back in using your new credentials.

Enrolling mobile devices

Any mobile devices you want to manage through LANrev must first be enrolled.

NOTE The enrollment process described below requires an Active Directory or (if LANrev Server is installed on macOS) Open Directory server on which the users of all mobile devices that you want to enroll have an account. An alternate process without this requirement is described in the LANrev user guide. Certain Apple devices can also be enrolled through Apple's servers, which is also described in the user guide.

Send an e-mail to all mobile devices that are to be managed. Include in the e-mail the enrollment URL (see below) and instruct the users to click on it to start the enrollment process.

The enrollment URL is: https://<server address>/Profile/enrollment.mdm where <server address> is the DNS name of your MDM server, e.g., mdm.mycompany.com.

When users click on the URL, they will need to enter their Active Directory or Open Directory credentials, including the Active Directory domain if applicable.

For iOS and Windows phone users, the rest of the process is automatic. Android users need to manually launch the LANrev Apps.apk file, which is downloaded in the process. Android users also need to allow the installation of content from sources other than the Android Market.

Once a device has been enrolled in this manner, you can manage it through LANrev.

Creating a custom inventory report

Creating an inventory report involves two basic steps:

- 1. Narrowing down the field to just the devices you want to include in the report
- 2. Deciding which inventory items you want to display about them

To create a new standard group in the **Mobile Devices** window select all the devices you want to include, right-click and choose **New Policy with Selected Devices** from the context menu. To create a smart group, right-click anywhere in the left-hand sidebar of the **Mobile Devices** window and choose **New Smart Group: Mobile Devices** from the context menu. Enter the name of any information items you want to use for selection criteria on the left, choose a comparison operator in the middle, and enter the comparison value on the right. You can get a list of available information items by choosing **Window** > **Information Items**. Copy or drag desired information items into the smart group definition. Alternatively you can also start typing the name of the desired information item and LANrev will try to autocomplete the name for you. To add more selection criteria, click the plus button.



To change which information items are displayed in the custom inventory report, click the **Configure Columns** icon in the upper left corner of the Computers window. Information items can be added by copying or dragging them from the **Information Items** window into the columns drawer. To remove information items select them and click the **Remove** button. To search for an information item in the **Information Items** window enter a part of its name in the search field at the top and press the Enter key.