

# **Proof Of Concept**

Last Modified on 05.22.25

## Install and Configure SQL

Installing SQL is an optional step that can be skipped if you have a separate SQL instance that you will be using for your Recast Management Server database.

**SQLExpress is used in these instructions for demonstration purposes**. It can serve as a temporary database at the Proof-Of-Concept stage, but its limited size will not support web dashboard and dashboard trends in a Recast Management Server deployment. The steps for installing and configuring a licensed version of SQL will be similar.

To install SQLExpress:

1. Download SQLExpress from Microsoft. When you begin installation, you will be presented with the installation type screen. Select **Basic** installation.

2. Accept the SQL Server License Terms.

3. Choose the install location and click Install.

4. After installation completes, we recommend that you install SQL Server Management Studio (SSMS). To download SSMS from the Microsoft site, see Download SQL Server Management Studio (SSMS).

To change the network configuration:

1. Open SQL Server Configuration Manager.

#### 2. Select SQL Server Network Configuration and double-click on Protocols for SQL Express.

🚡 Sql Server Configuration Manager	—	×
File Action View Help		
🗢 🔿   🚈   🖾 🗟   🔽		
<ul> <li>SQL Server Configuration Manager (Local)</li> <li>SQL Server Services</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Native Client 11.0 Configuration (32bit)</li> <li>SQL Server Network Configuration</li> <li>SQL Server Network Configuration</li> <li>SQL Native Client 11.0 Configuration</li> </ul>		
< >>		

### 3. Select **TCP/IP**.

🚟 Sql Server Configuration Manager			_	$\times$
File Action View Help				
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<ul> <li>SQL Server Configuration Manager (Local)         <ul> <li>SQL Server Services</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Native Client 11.0 Configuration (32bit)</li> <li>SQL Server Network Configuration</li> <li>SQL Server Network Configuration</li> <li>SQL Protocols for SQLEXPRESS</li> <li>SQL Native Client 11.0 Configuration</li> </ul> </li> </ul>	Protocol Name Shared Memory Named Pipes	Status Enabled Disabled Disabled		
< >				

#### 4. Change **Enabled** to 'Yes'.

TCP/IP Properties		?	×		
Protocol IP Addresses					
General					
Enabled	Yes		-		
Keep Alive	Yes				
Listen All	No				
Enabled Enable or disable TCP/IP protocol for this server instance					
OK Can	cel Apply	Help	)		

5. Select the **IP Addresses** tab and scroll down to the **IPAII** section.

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		Dellies

?	×

1	TCP Dynamic Ports	0	^
1	TCP Port		
	IP3		
1	Active	Yes	
E	Enabled	No	
	IP Address	::1	
1	TCP Dynamic Ports	0	
1	TCP Port		
	IP4		
1	Active	Yes	
E	Enabled	No	
	IP Address	127.0.0.1	
1	TCP Dynamic Ports	0	
1	TCP Port		
Ξ	IPAII		
1	TCP Dynamic Ports	0	
1	TCP Port		

6. Add port 1433 as the TCP Port (this is the standard port for SQL).

	TCR Dynamic Ports	0	
	TCP Dynamic Ports	U	
Ξ	IP3		
_	Active	Yes	
	Enabled	No	
	IP Address	::1	
	TCP Dynamic Ports	0	
	TCP Port		
Ξ	IP4		
	Active	Yes	
	Enabled	No	
	IP Address	127.0.0.1	
	TCP Dynamic Ports	0	
	TCP Port		
Ξ	IPAII		
	TCP Dynamic Ports	0	
	TCP Port	1433	

7. You will need to stop and restart the service for changes to take effect. Return to the front page of the SQL Server Configuration Manager and right-click on the running SQL server instance. Select **Restart**.

🚟 Sql Server Configuration Manager			- 0	×
File Action View Help				
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SQL Server Configuration Manager (Local)	Name	State	Start Mode Other (Boot, Syste	Log O
<ul> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Native Client 11.0 Configuration (32bit)</li> <li>SQL Server Network Configuration</li> <li>Protocols for SQLEXPRESS</li> <li>SQL Native Client 11.0 Configuration</li> </ul>	SQL Server 0	SOLE Rupping Start Stop Pause	Automatic Other (Boot, Syste	NT Ser NT AU
< >>	<	Restart Properties		>

You are now ready to install the Recast Management Server .

## Install Recast Management Server

To install Recast Management Server:

After downloading Recast Management Server from the Recast Portal, open the installer by double-clicking on the .msi file.

When the Recast Management Server Setup Wizard opens, click Next.

#### IIS

To configure IIS:

1. On the **IIS Configuration** page, change the **Server Name** only if the client is going to use a DNS alias.

2. Set the **IIS Port**. The default IIS Port is **TCP 444**, to prevent conflicts when Recast Management Server is installed on Configuration Manager servers. The IIS Port can be changed to 443, or any open TCP port, to suit your environment.

Recast Management Ser	ver - Setup	×
IIS Configuration		
Server Name	DEMO-RMS-TEST.demo.recastsoftware.com	
IIS Port	444	
(?)	Previous Next	Cancel

## Certificates

Recast Management Server requires a certificate for secure communication with Right Click Tools and any Recast Proxies.

To configure a certificate:

On the **Certificate Configuration** page, we recommend that you **Use an Existing IIS Certificate** issued by a trusted Certificate Authority (CA). If you choose to **Generate a Self-Signed Certificate**, you must import the Recast Management Server self-signed certificate to the Trusted Root Certificate Authorities store on devices running Right Click Tools, Recast Agent, or Recast Proxy.

Recast Management Server - Setup			×
Certificate Configuration			
<ul> <li>Generate Self-Signed Certificate</li> <li>Use Existing IIS Certificate</li> </ul>			
DEMO-RMS-TEST.demo.recastsoftwa	are.com (071AB	634FE32B6894E0	525EF01F1E1D0
<			>
2			
(?)	Previous	Next	Cancel

## SQL Server

Set the SQL information from the SQL instance we installed earlier. If you used the default information from the install instructions above, your **SQL Configuration** page will look like the one below. Click **Test SQL Connection** to verify that you can connect to the SQL installation.

Recast Management Service	rer - Setup	×
SQL Configuration		
If you would like the installe add the user running setup This role can be removed a	er to automatically create the database and setup per to the sysadmin role on the SQL server before clickir ter the installation finishes.	missions, 19 Next.
SQL Server Name	localhost\SQLEXPRESS	
SQL Server Port	1433	
Test SQL Connect	ion	
Success		
?	Previous Next (	Cancel

## **Import License**

To download your Enterprise license:

1. On the **Import License** page, enter your Recast Portal email address and password.

2. Click **Download License**. The license information will appear in the right-hand column.

**NOTE**: If your server does not have internet access, click **Browse for License** to browse the filesystem for a license file that has been exported from the Recast Portal.

Recast Ma	anagement Server - Setup		×
Import	License		
Sign in with License. If yo Portal to exp	your Recast Software accoun ou do not have internet acces oort a copy of your license an	t to download your s on this computer, d use the Add Licer	Recast RCT Enterprise visit the Recast Software use button to add it.
Email		Expiration	8/7/2022 12:00:00 AM
Password		Device Count	1500
	Download License		Browse for License
0		Previous	Next Cancel

### Proxy

On the **Proxy Configuration** page, enter the Service Account information you would like to use for the Recast Proxy. The proxy must be installed for scheduling of Builder/Kiosk Manager actions, to have Right Click Tools actions run as a Service Account, or to access Web Dashboards in the Recast Management Server. It is recommended that you install Recast Proxy during your POC.



To configure the proxy during RMS installation:

- 1. On the installer's Proxy Configuration page, enter the service account Domain, Username, and Password.
- 2. Click **Test Credentials** to verify service account details.

Recast Man	nagement Server - Setup	$\times$
Proxy Cor	nfiguration	
A Recast Prox Recast securit	y is required for scheduling Kiosk Manager and Builder actions as w y scopes.	ell as
Domain	demo.recastsoftware.com	
User	TestProxy	
Password	*****	
	Test Credentials Do Not Install Recast Proxy	
User creden	tials valid	
?	Previous Next Ca	incel

#### Domain

To configure your domain:

1. On the **Domain Configuration** page, enter the **Domain Name**.

2. Click **Test Domain Connection** to verify that the service account has access to read from your domain. The test should show **Success**.

Recast Management Server - Setup	$\times$
Domain Configuration	
Enter and verify the information necessary to read from your Active Directory dom	ain.
Domain Name demo.recastsoftware.com	
Test Domain Connection	
Success	
Previous         Next         Ca	ncel

### Configuration Manager

Check that your Proxy Service Account has permissions to read from your Configuration Manager installation. Your Service Account must have permission as at least a **Read Only Analyst** in Configuration Manager, and must be allowed to read from the ConfigMgr Database directly.

To set up Configuration Manager for the proxy:

1. On the **Configuration Manager Configuration** page, enter the following information:

- Name of the site server that has your **SMS Provider** role
- Site Code
- Name of the SQL Server where your Configuration Manager SQL database is located
- SQL Database name

**NOTE**: You can skip the **Configuration Manager Configuration** page during Recast Management Server or Recast Proxy installation by removing any information from the text fields, selecting **Test ConfigMgr Connection** and the **Skip ConfigMgr Verification** checkbox, and clicking **Next.** 

2. Click **Test ConfigMgr Connection** to check that the service account has access.

Recast Management Server - Setup					
Configuration Manager Configuration					
Enter and verify the inform environment.	ation necessary to access your Configuration Manager				
SMS Provider	demo-memcm.demo.recastsoftware.com				
Site Code	RCT				
SQL Server	DEMO-MEMCM.demo.recastsoftware.com				
SQL Database	CM_RCT				
Test ConfigMgr C	onnection				
Success					
0	Previous Next Cancel				

For more information, see Manually Configure SQL Server Permissions.

#### MBAM

Check that your Proxy Service Account has permission to read from the MBAM database. MBAM configuration is only required for a separate MBAM Server. If you are using the ConfigMgr-integrated BitLocker or AD, you can skip this

section.

To configure MBAM:

#### 1. Tap Click Here to Configure MBAM.

Recast Management Serv	er - Setup X
MBAM Configuration	
Enter and verify the informa	tion necessary to access your MBAM environment.
Compliance Status DB	MBAM Compliance Status
Recovery & Hardwa	Here to Configure MBAM
	ection
0	Previous Install Cancel

2. Add your Administration URL and SQL Server information.

3. Click **Test MBAM Connection** to verify that the service account has access to MBAM.

Recast Management Serv	ver - Setup X				
MBAM Configuration					
Enter and verify the informa	ation necessary to access your MBAM environment.				
Administration URL https://demo-mbam.demo.recastsoftware.com/MBAMAdn					
SQL Server	demo-mbam.demo.recastsoftware.com				
Compliance Status DB	MBAM Compliance Status				
Recovery & Hardware DB	MBAM Recovery and Hardware				
Test MBAM Conn	ection				
Success					
0	Previous SInstall Cancel				

For more information, see Configure Permissions for the MBAM SQL Database .

## Initiate RMS Installation

Once you have filled in all the necessary information, click **Install**.

When Recast Management Server installation completes, click on the highlighted link to go to the Recast Management Server URL, or click **Finish** and navigate to your RMS URL at <a href="https://ServerFQDN:Port">https://ServerFQDN:Port</a> in a web browser (Chrome, Edge, or Firefox are recommended).

When asked to sign in, enter the username and password for the account used to install the Recast Management Server.

You are now ready to Configure your Recast Management Server.

## Enable IIS

The Recast Management Server requires IIS, which should be installed automatically during Recast Management Server installation. Otherwise, you can enable IIS manually in Server Manager.

To manually enable IIS, if necessary:

1. Open Server Manager and navigate to Manage > Add Roles and Features.



- 2. When the Add Roles and Features Wizard opens, click **Next**.
- 3. Select Role-based or feature-based installation and click Next.



4. Select your destination server and click **Next**.



#### 5. In Server Roles, click Web Server (IIS). Click Add Features.



- 6. Confirm that Web Server (IIS) is selected and click **Next**.
- 7. On the Web Server Role (IIS) page, click **Next**.
- 8. When the Role Services page opens, click **Next**. (The default settings are fine for our install.)



9. Confirm your installation selections and click Install.

## Enable .NET Framework

You can manually enable .NET version 8 via Server Manager.

To enable the required .NET framework:

1. Open Server Manager and navigate to Manage > Add Roles and Features.



2. When the Add Roles and Features Wizard opens, click Next.



3. Select Role-based or feature-based installation and click Next.



4. Select your destination server and click Next.

Defere Ver Deele	Select a server or a virtual	hard disk on which	to install roles and features.		
Installation Turo	Select a convertient to	a conver no el			
Server Selection	<ul> <li>Select a server from the</li> <li>Select a virtual hard d</li> </ul>	isk			
Server Boles	Sopror Pool				
Features	Server Poor				
	Filter:				
	Name	IP Address	Operating System		
	WIN-TR67M2RDHH5	169 254 30 26	Microsoft Windows Server 20	19 Standard	
	WIN-TR67M2RDHH5	169.254.30.26	Microsoft Windows Server 20	19 Standard	

- 5. On the **Select server roles** page, click **Next.**
- 6. On the Select features page, select .NET Framework > .NET Framework 8.x and click Next.
- 7. Confirm your installation selections and click Install.

## Configure Recast Management Server

After installation, you'll need to configure your Recast Management Server. First, log into your Recast Management Server interface using the same account that you used to install the Recast Management Server. Your Recast Management Server can be accessed by navigating to https://<ServerFQDN>:<Port> in a web browser.

Windows Security Sign in to access this site					
Authorization required by https:// test.demo.recastsoftware.com:44	/demo-rms- 4				
User name					
Password					
Domain: DEMO					
ОК	Cancel				

When you initially log in, the Recast Management Server homepage will appear.

Recast Management Serv	Recast Management Server
Dashboards	Welcome to your Recast Management Server web portal.
Administration	<ul> <li>Set up <u>Recast Proxy</u> to run actions as a service account.</li> <li>Set up <u>Recast Agent</u> to run actions as local system.</li> <li>Get more information on configuring <u>Limiting Rules</u>.</li> </ul>
🔒 Home	Get <u>help</u> setting up Recast Management Server.
🔒 Privilege Manager	RMS: 5.9.2502.2105
Application Manager	*

To add yourself as a user:

1. Expand the **Administration** section in the navigation panel and select **Permissions**.

2. In the **Recast Users** section, click **Add User**.

3. In the **Add User** window that opens, enter your user account as the **Name** and click **Search**.

gement Server						
		Recast Users				
stration	^					ADD USE
		Name	Identifier	Gr	pup	
og		A No data available				
Sources			_			
s		Recast Roles	Add User	×		
			Name			
sions			SEARCH			
		Name				
		Administrators				RENAME PERM
						Records per
5	~					
ots		Recast Scopes				

4. Click **Add** to add the user to the Recast Management Server. The user will then appear in the **Recast Users** section.

Recast Users			
			ADD USER ADD GROUP
Name	Identifier	Group	Actions
Marty Miller	S-1-5-21-924190459-3760613922-2577449956-1129	false	2 1
			Records per page: 5 💌 1-1 of 1

All users must be assigned a role or they will not have permissions within Right Click Tools or the Recast Management Server.

To assign yourself a role:

1. Click on the Edit icon (pencil) to the right of your name.

2. Under Role Assignments, select the Administrators role and click Save.

To check that your proxy is connected to the Recast Management Server:

1. Select **Proxies** in the navigation panel.

2. Check that the proxy that you installed is showing as 'Connected' and 'Authorized'.

**Recast Proxies** 

Computer Name	Connected <b>Y</b>	Version <b>Y</b>	Authorized <b>Y</b>	Actions
DEV1-RMSPROX-01	~	5.8.2501.1312	~	
DEV2-RMSPROX-01	~	5.8.2501.1312	~	
DEV3-RMSPROX-01	$\checkmark$	5.8.2501.1312	~	1

In order to configure the Recast Management Server so that the Recast Proxy can function, you'll need to add a route for the Proxy.

To add a Recast Proxy route:

1. Select **Routes** in the navigation panel. By default, you should see the Recast Agent and Right Click Tools (Console Extension) routes listed in the table.

#### Routes

Routes determine where an action will be sent for execution. Drag and drop the routes to reorder them. They are priority based—the first route to successfully match is chosen.

Note: Routes apply only to device actions.

							Create
	Route ID <b>T</b>	Proxy Comp 🔻	Proxy Usern <b>T</b>	Role <b>T</b>	Scope ID 🛛 🔻	Route Type 🛛 🔻	Actions
=	1				1	Recast Agent	
=	25	DEV1-RMSPROX-01	SVC-RecastProxy	Administrators	1	Recast Proxy	
=	2				1	Console Extension	
=	3				1	Service Connection	
=	7	DEV1-RMSPROX-01	SVC-RecastProxy	Administrators	5	ConfigMgr Fast Channel	/

#### 2. Click **Create**.

3. In the **Create Route** window, set the route **Type** to **Recast Proxy**.

4. Select the proxy that was installed on your RMS server.

5. Under Role, select Administrators.

#### 6. Click **Create**.

Your new route will appear at the bottom of the Routes table. Click to **Save** this configuration.

**Optional Step**: If you would like to run actions as the Proxy Service Account, you can drag the Recast Proxy route from the bottom of the list to the top. This will ensure that the action is run as that service account.

You are now ready to install Right Click Tools.

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