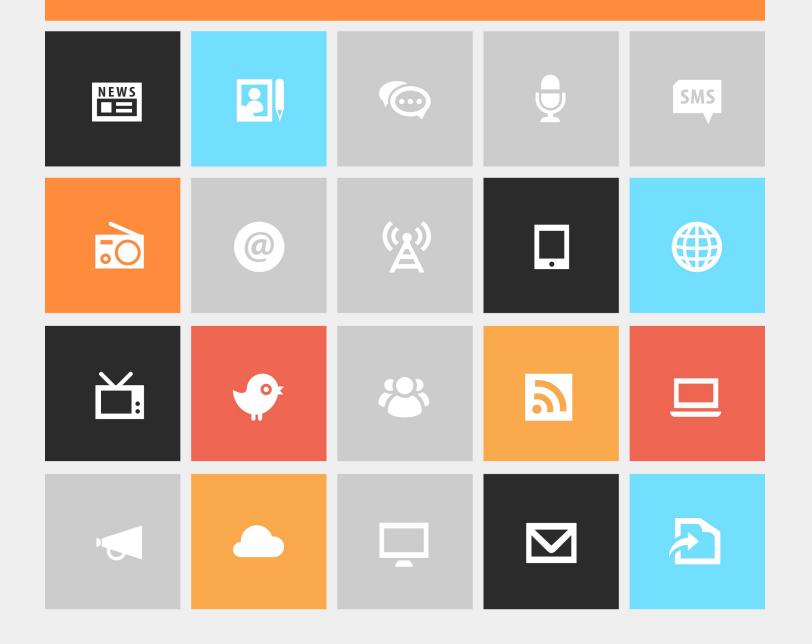
ROCK SOLID INTERNAL HOSTING





Introduction

Looking for information on how to host Rock internally? Well look no further. In this step-by-step guide we'll walk through the process of getting Rock up and running. Before we jump in, let's cover a few things to make sure we get started off on the right foot.

Preparing for Rock

In this chapter we will cover what you need for Rock to perform at its best.

System Requirements

Rock was developed on Microsoft's ASP.Net platform so it requires a Windows Server environment to run. Below are specific requirements of the hosting platform:

Small Installs

1,000-5,000 records One server with the following specs:

Server requirements for Small Installs

Server CPU: 2Ghz dual core or higher Memory: 2GB or higher Storage: 1TB Operating System: Windows Server 2016 or newer Software: SQL Server Express 2014 (free) or SQL Server 2014 Standard or higher Note that the server versions above are the minimum. We would of course recommend using the latest versions if you can. Starting with Rock v15, SQL

Keep in Mind PCI Compliance

Server 2016 will be required at a minimum.

While a single server configuration will do a lot quite well for small churches, you should be aware that it does not meet PCI requirements (which state you need to have your database and your web host in separate environments). So if you plan to take payments through your Rock site, or store financial information in Rock, you'll probably need to use the Medium Installs configuration instead (or use an external host).

Medium Installs 5,000-15,000 records Two servers with the following specs:

Server requirements for Medium Installs

Web Server	Database Server
 CPU: 2Ghz quad core Memory: 8GB or higher Storage: 1TB 	 CPU: 2Ghz quad core Memory: 8GB or higher Storage: 1TB Operating System: Windows Server 2016 or newer
 Operating System: Windows Server 2016 or newer 	 Software: SQL Server 2014 Standard (Starting with Rock v15, SQL Server 2016 will be required at a minimum)

Large Installs

15,000+ records

Two servers with the following specs:

Web Server	Database Server
 CPU: 2.5Ghz quad core Memory: 16GB or higher Storage: 1TB Operating System: Windows Server 2016 or newer 	 CPU: 2.5Ghz quad core Memory: 16GB or higher Storage: 1TB Operating System: Windows Server 2016 or newer Software: SQL Server 2014 Standard (Starting with Rock v15, SQL Server 2016 will be required at a minimum)

SQL Server 2014

Note that we are ending support for SQL Server 2014 as of Rock version 15.0. We generally recommend using the latest versions if you can.

Note:

The storage estimates above do not include room for backups. If you are considering local backups, please adjust the volumes appropriately.

More Info:

If you plan to install Rock on a two server configuration, be sure to check out the *Two-Server Configuration* chapter for some helpful tips.

Things You'll Need During Installation

Here is a short list of settings that you'll need to complete the Rock installation.

- Internal and external web addresses for your organization
- An email address to send exception messages to

Other Considerations

Windows Updates

Rock's foundation is built upon Microsoft's .NET technology. Since .NET is an everevolving technology, we recommend that you install all the latest updates for your Windows Server.

Server Version

The instructions and pictures in this guide are written for Windows Server 2012. If you plan to install Rock on a newer version, there are a few differences in the installation you will need to watch out for.

Certificates

As you configure Rock, make sure you purchase and configure an SSL certificate before making it available at a publicly accessible domain. Prices range from \$9–\$100+ per year, and while the setup may seem daunting, there are plenty of helpful tutorials that walk you through the setup process. Also, you can check with your current domain registrar to see if they offer SSL Certificates. If you're new to SSL, Google provides a detailed list of best practices. Check out the Configuring IIS chapter below for additional details.

Free SSL Plugin Available

Thanks to the Rock Community, there is an easier option available for configuring SSL. Check out the Acme Certificate plugin in the Rock Shop. This will walk you through getting and installing a free Lets Encrypt certificate - a much easier route for anyone who has never set up website encryption before.

Encryption Best Practice

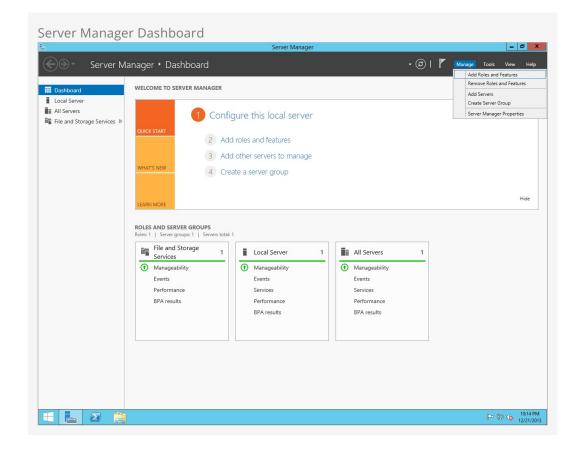
You might be wondering where and when you should add your encryption for your website. Every secure website will have an HTTPS address on every page. The simplest way of doing this for each site within Rock is by encrypting at the Site Level. This is done by checking the box for every site at: Admin Tools > CMS <u>Configuration > Sites > Edit Site > Require Encryption</u>. The two Rock sites for which you should enable SSL are the internal RockRMS Site, and the external facing website. Even if you don't plan to use Rock for your main website, it's important to protect the information flowing between your server and those who are giving you their information. Users typing http:// addresses in their browsers to visit your pages will be redirected automatically to the secure https:// site when "Require Encryption" is checked.

Now that we have these things covered, let's begin!

Installing Server Roles & Features

In this chapter, we'll install the required server roles and features needed for Rock.

Let's open up <u>Start > Server Manager</u>. Once opened, the first thing we need to do is to install the Web Server role. That can be done by clicking on <u>Manage</u> and then <u>Add Roles</u> and <u>Features</u>.



Click Next.

		Server Manager					- 0	•
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File and Storage Services ▷		onfigure this local server Add Roles and Features Wizard	_ 0	x				
		Aud Roles and Features Wizard						
	Before you begin		DESTINATION SERVER Server2012Rock					
	Before You Begin Installation Type	This wizard helps you install roles, role services, or features. You determine w features to install based on the computing needs of your organization, such hosting a website.		r				
	Server Selection	To remove roles, role services, or features:						lide
	Server Roles Features	Start the Remove Roles and Features Wizard Before you continue, verify that the following tasks have been completed:						lide
	Confirmation Results	The Administrator account has a strong password						
	Results	 Network settings, such as static IP addresses, are configured The most current security updates from Windows Update are installed 						
		If you must verify that any of the preceding prerequisites have been complet complete the steps, and then run the wizard again.	ted, close the wizard,					
		To continue, click Next.						
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On the next screen, select Role-based or feature-based installation.

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Local Server All Servers			
File and Storage Services D	1 Configure this local server		
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	Before You Begin Select the installation type. You can install roles and features of machine, or on an offline virtual hard disk (VHD).	on a running physical computer or virtual	
	Server Selection Server Selection Configure a single server by adding roles, role services, and	d famburar	
	Server Roles	s reatures.	Hide
	Features Install required role services for Virtual Desktop Infrastructu Confirmation or session-based desktop deployment.	ure (VDI) to create a virtual machine-based	
	Results		
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Choose select a server from the server pool and then highlight your server from the list below. Click Next.

Select Destinat	ion Server					
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On the next screen, check the box for Web Server (IIS).

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File and Storage Services D		onfigure this local server			x				
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	Installation Type	Roles	Description						
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	Features	DNS Server							
	Results	Fax Server File and Storage Services (1 of 12 installed)							
		Hyper-V							
		Network Policy and Access Services							
		Print and Document Services Remote Access							
		Remote Desktop Services	=						
		Volume Activation Services							
		Web Server (IIS) Windows Deployment Services	-						
		Windows Server Essentials Experience							
		Windows Server Update Services	~						
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HTTP Redirection

By default HTTP Redirection is not installed/activated. If it is installed, you'll typically want to redirect to nothing (*Redirect requests to this destination* will not be checked).

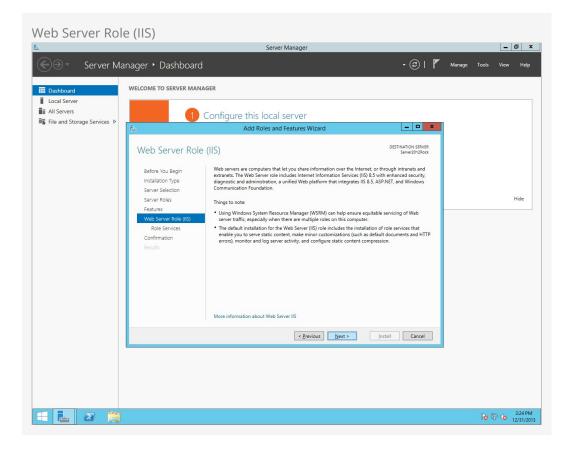
You will be prompted to add some required features for IIS. Click on Add Features. Then click Next.

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 All Servers File and Storage Services ▷ 		Configure this local server Add Roles and Features Wizard	_ 🗆 X		
	Select server rol Bafore You Begin Installation Type Server Selection Server Relaction Results	Add Roles and Features Wizard Add features that are required for Web Server (IIS)? The following tools are required to manage this feature, but do not have to be installed on the same server. Web Server (IIS) Management Tools ITookij IIS Management Console	DESTINATION SERVER Serve2012Rock Jon ver (10) provides a reliable, able, and scalable Web on infrastructure.		Hide
		Indude management tools (if applicable) Add Features Cancel	Install Cancel		
				De 8	2:22 F

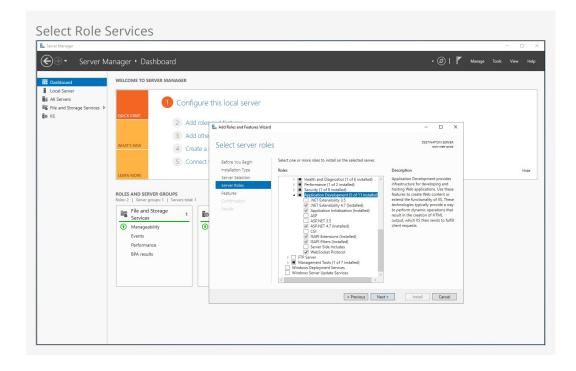
On the Select Features screen, add .NET Framework 3.5 Features and click Next.

Select Features	5				
L		Server Manager			- 0 X
Server M	anager • Dashboard		• 🗇 🏲	Manage Tools	View Help
Server N.	WELCOME TO SERVER MANA	GER	DESTINATION SERVER Serve2013Rock Description MET Framework 3.5 combines the power of the .NET Framework 2.0 APFs with new technologies for building applications that offer appealing user interface, protect your customers' personal identity information, analy provide the ability to model a range of buildings processes.		Hide
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You will be presented with some information about the IIS feature. Click Next.



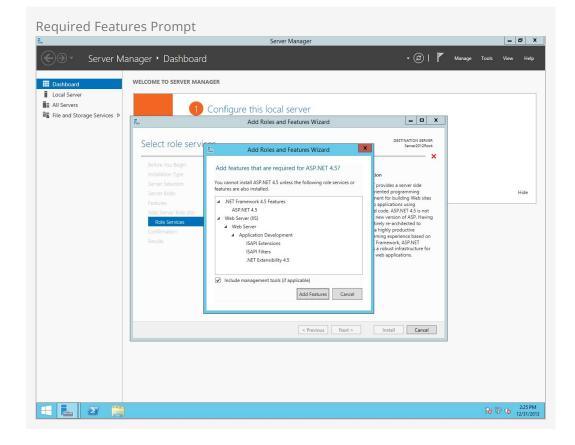
On the *Select Role Services* screen, scroll down to *Application Development* and check the boxes for *ASP.NET 4.7* and *Websocket Protocol*.



Version information

Server 2012 has ASP.NET 4.5, and Server 2016 has ASP.NET 4.6, instead of ASP.NET 4.7. Don't worry about that difference; just check the box next to the correct version and it'll work the same.

You will be prompted to add some required features for ASP.NET. Click on Add Features.



Next, check the box labeled *Application Initialization*. Then click Next.

Install ASP.NET and Application Initialization - 0 X Server Manager Server Manager • Dashboard WELCOME TO SERVER MANAGER Dashboard Local Server All Servers 1 Configure this local server File and Storage Services _ 🗆 X Add Roles and Features Wizard DESTINATION SERVER Select role services Select the role services to install for Web Server (IIS) Before You Begin Installation Type Role services Description Description ASP NET provide a server side object oriented programming environment for building Web sites and Web applications using managed code. ASP NET 3.5 in out simply a new version of ASP. Having been entiticly exactificated provide a highly productive provides a robust infrastructure for building web applications. Digest Authentication Digest Authentication IIS Client Certificate Mapping Authe IP and Domain Restrictions URL Authorization Windows Authentication Server Selection Hide Server Roles Features Web Server Role (IIS) Role Services Application Development .NET Extensibility 3.5 .NET Extensibility 4.5 Confirmation Application Initialization ASP ASP.NET 3.5 ASP.NET 4.5 ASP.NET 4.5 CGI ISAPI Extensions ш < Previous Next > Install Cancel

On the final screen, select Restart the destination server automatically if required and click Install.

Warning:

If this is a production server, you might not want to have the server automatically reboot.

Version: 1.14.0

Confirming Inst	tallation Settir	ngs				
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File and Storage Services ▷	b	Add Roles and Features Wizard	- • ×			
	Confirm installati	on selections	DESTINATION SERVER Server2012Rock			
		n alternate source path? One or more installation selections are missing source fi To install the following roles, role services, or features on selected server, cl				
	Before You Begin Installation Type Server Selection Server Roles	Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this been selected automatically. If you do not want to install these optional fea their check boxes.	page because they have		H	ide
	Features Web Server Role (IIS) Role Services Confirmation	NET Framework 3.5 Features NET Framework 3.5 (includes NET 2.0 and 3.0) NET Framework 4.5 Features 4.5 NET 4.5	-			
	Results	Web Server (IIS) Management Cools IIS Management Console Web Server				
		Application Development Export configuration settings Specify an alternate source path	v			
		< Previous Next >	Install Cancel			
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Alternate Sources

If the installation gives you an error about sources not being available (as in the screenshot above), you can click <u>Specify an alternate source path</u> before beginning installation. Make sure that your installation disc (or image) is available, then type in the path to it's the "sources\sxs" directory. For instance, if the Windows Server installation DVD is inserted in your D:\ drive on the server, type <u>d:\sources\sxs</u> in the alternate source path dialogue and click OK.

Installation will begin.

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	1 2	Add Roles and Features Wizard	_ □	×			
	Installation prog	ress	DESTINATION SERVER Server2012Rock				
	Before You Begin	View installation progress					
	Installation Type	Feature installation					
	Server Selection	Installation started on Server2012Rock					Hide
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	Web Server Role (IIS)	.NET Framework 3.5 (includes .NET 2.0 and 3.0)					
	Role Services Confirmation	.NET Framework 4.5 Features ASP.NET 4.5	=				
	Results	Web Server (IIS) Management Tools					
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		You can close this wizard without interrupting running tasks. View task pro					
		page again by clicking Notifications in the command bar, and then Task D Export configuration settings	letails.				
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Congratulations! The web server is now installed. Let's move on to configuring Internet Information Services.

Version: 1.14.0

Configuring Internet Information Services (IIS)

Now we will configure Internet Information Services for Rock.

Configuring IIS

Open up the Internet Information Services Manager by clicking Start > Administrative Tools > Internet Information Services (IIS) Manager. Expand your server's node in the treeview on the left side, then click on *Application Pools*. Right click on DefaultAppPool and click on Advanced Settings.

				Internet Info	rmation Services ((IIS) Manager		_ 0
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SERVER2012ROCK (SERVER20 Application Pools	applications, and prov							lication Pool Tasks
- Sites	Filter:	- 3	🕅 Go 🕞 🕁 Sho	w All Group by:	No Grouping	-	Start	
	Name *	Status	.NET CLR V	Managed Pipel	Identity	Applications	Stop	
	.NET v4.5	Started	v4.0	Integrated	ApplicationPoolId			
	2.NET v4.5 Classic	Started	v4.0	Classic	ApplicationPoolld			Application Pool
	DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolId	1		c Settings
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							Rena	anced Settings
							× Rem	
								v Applications
							Help	
	Features View	Content Vie	ew					

Change the *Application Pools*.NET Framework Version to v4.0 (if it's not already) and change the Start Mode to *Always Running*. Then change *Identity* setting to LocalSystem and change *Idle Time-out (minutes)* to *0*. Then click <code>OK</code>.

Keep Alive

You must enable Rock's "Keep Alive" process, this is disabled by default. This setting is not needed if your AppPool's Idle Time-out is set to 0 - which is highly recommended.

			Internet Information Services (IIS) Manager	_ 0 >
) SERVER2012ROCH	Application Pools			🔛 🖂 🙆 🕼
ile View Help				
nnections	Applicat	ion Pools		Actions
	This page lets you view	w and manage th	e list of application pools on the server. Application pools are associated with worker processes, contain one or more ong different applications.	Add Application Pool Set Application Pool Defau Application Pool Tasks
→ Description Pools	Filter:	• 👻 G(▶ Start
p-w sites	Name	Status .N	Advanced Settings ? X	Stop
	.NET v4.5	Started v-		🗢 Recycle
	NET v4.5 Classic	Started v	4 (General)	Edit Application Pool
	DefaultAppPool	Started v	.NET CLR Version v4.0	Basic Settings
	•		Enable 32-Bit Applications False	Recycling
			Managed Pipeline Mode Integrated	Advanced Settings
			Name DerautAppPool	Rename
			Queue Length 1000	
			Start Mode AlwaysRunning	× Remove
			⊿ CPU	View Applications
			Limit (percent) 0	
			Limit Action NoAction	🔞 Help
			Limit Interval (minutes) 5	
			Processor Affinity Enabled False	
			Processor Affinity Mask 4294967295	
			Processor Affinity Mask (64-bit c 4294967295	
			Generate Process Model Event L	
			Identity LocalSystem	
			Idle Time-out (minutes) 0	
			Idle Time-out Action Terminate	
			Identity	
			[IdentifyType, username, password] Configures the application pool to run as built-in account, is. Application pool lentify (recommended). Network Service, Local System, Local Service, or as a specific user identify. OK Cancel	
m > T	Features View C	Content View		

Now right-click on *DefaultAppPool* and click on *Recycling*. Un-check Regular Time Intervals and instead provide a convenient time for Rock to restart each day (such as 4:00am) in the *Specific Time(s)* option. Click next and then click Finish.

	Internet Information Services (IIS) Manager	- 0
SERVER2012ROCK	Application Pools	🛱 🛛 🖓 I
ile View Help		
onnections	Application Pools	Actions
Start Page	Application Pools his page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or m	ore Add Application Pool Set Application Pool Defa
SERVER2012ROCK (SERVER20 Application Pools	pplications, and provide isolation among different applications.	Application Pool Tasks
⊳-💽 Sites	Filter: 👻 🐨 🗸 🥁 Show All Group by: No Grouping 👻	Start Stop
	Name Status .NET CLR V Managed Pipel Identity Applications	2 Recycle
4	PAET v4.5 Edit Application Pool Recycling Settings PAET v4.5 Recycling Conditions	Edit Application Pool Basic Settings Recycling Advanced Settings
	Fixed Intervals	Rename
	Regular time intervals (in minutes): Fixed number of requests:	× Remove
		View Applications Help
	✓ Specific time(s):	- ·
	4:00 AM	
	Example: 8:00 PM,12:00 AM	
	Memory Based Maximums Uritual memory usage (in KB): Private memory usage (in KB):	
	Previous Next Einish Cancel	
	Features View	
dy		

Finally, expand *Sites* (below Application Pools on the left side) and right-click *Default Web Site*. Choose *Manage Website -> Advanced Settings*. Change *Preload Enabled* to True and click <code>OK</code>.

<pre>Numerical control of the application of the ap</pre>	Turn on prelo	dü	
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Generally the bindings will be configured for you automatically. However, if they're changed and you need to reset them, in most cases you'll use the configuration pictured below. Note that in some cases you must provide a Host Name; You can use an asterisk (*) in place of a host name.

Edit Site Bindi	ng				?	\times
Туре:		IP address:		Port:	2	
http		All Unassigned	~	80		
Host name:						
*						
Example: wv	/w.contos	o.com or marketing.conto	oso.com			
		and a second second second second second				
		-				

Edit Site Binding)		?
Туре:	IP address:	Port:	
https	All Unassigned	~ 443	
Host name:			
*			
Require Ser	ver Name Indication		
Disable HT	TP/2		
Disable OC	SP Stapling		
SSL certificate			
SSL certificate 11/28/2022 1:2		∽ Select	View
		✓ Select	View

Click on the SSL Settings padlock icon to view your SSL settings.

📬 Internet Information Services (IIS)	Manager		
← → 🚷 ► rock-web-prod	▶ Sites ▶ Default Web Site ▶		2 🛛 🟠 🔞
File View Help			
Connections Conne	 SSL Settings This page lets you modify the SSL settings for the content of a website or application. Require SSL Client certificates: Ignore Accept Require 	Actions Apply Cancel Telp	
< >>	The Features View 💼 Content View		

That was easy! Now let's move on and set up our database.

Installing & Configuring SQL Server

In this chapter we will walk through installing SQL Server. If your organization doesn't have a SQL Server license, no worries. Rock works great with Microsoft's free version of SQL, SQL Server Express. Please note that SQL Server Express will work best with fewer than 20,000 records. If you are working with more than 20,000 records, your best option would be SQL Server Web or Standard edition.

Installing SQL Server 2016

The installation steps for SQL Server 2016 are an almost exact match to those pictured below for 2012. Note that we are ending support for SQL Server 2012 in Rock version 11.0.

Getting SQL Server Express

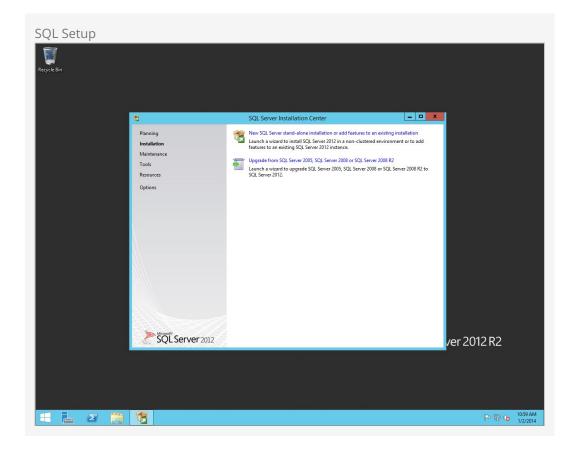
To download SQL Server Express, Click Here.

Some versions of SQL Server Express come in different editions. The version we recommend is the 64-bit version of SQL Server Express. Once you have SQL Server downloaded, let's move on to the next section.

Installing SQL Server

In this section, we will be installing SQL Server onto our Rock server. Let's begin.

Start the SQL Server installer and on the first screen click on New SQL Server stand-alone installation or add features to an existing installation.



On the next screen, agree to the license agreement and then click Next.

Recycle Bin	
SQL Server 2012 Setup License Terms To install SQL Server 2012, you must accept the Microsoft Software License Terms.	
License Terms MICROSOFT SOFTWARE LICENSE TERMS Product Updates MICROSOFT SQL SERVER 2012 EXPRESS Install Scrup Files These license terms are an agreement between Microsoft Corporation (or based on where you which includes the media on which you received it, if any. The terms also apply to any Microsoft • updates, • supplements, • supplements, • Internet-based services, and • unnort services • @ @mt • lacept the license terms. Genf gatare usage data includes information about your hardware configuration and how you use SQL Server and its components. See the Microsoft SQL Server 2012 Privacy Statement for more information.	
< Back Next> Cancel 27 2012 R2	
P 10 G 11-01 122	

Keep the *Include SQL Server Product Updates* checkbox checked and click Next.

Product Updates	S				
Recycle Bin					
	15	SQL Server 2	2012 Setup		
	Product Updates				
	Always install the latest update	s to enhance your SQL Server security	and performance.		
1	License Terms Product Updates	☑ Include SQL Server product updat	tes		
	Install Setup Files	Name	Size (MB)	More Information	
		SQL Server 2012 SP1 GDR Produc SQL Server 2012 SP1 GDR Setup		KB 2793634 KB 2793634	-
		SQL Server 2012 SPT GDR Setup	20	<u>K0-2/93034</u>	-
		2 updates (171 MB) found online. The Setup updates (26 MB) will be in Read our privacy statement online	stalled when you click Next.		
		Learn more about SQL Server produc	t updates		
			< <u>B</u> ack	Next > Cancel] er 2012 R2
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Next, the SQL installer will prepare to set up.

Installing Setup	o Files			
Recycle Bin				
	· ·			
	1	SQL Server 201	2 Setup	
	Install Setup Files			
	SQL Server Setup will now b update will also be installed.	e installed. If an update for SQL Server Setup	is found and specified to be included, the	
	License Terms			
	Product Updates	Update is being extracted.		_
	Install Setup Files		1.	
		Task	Status	
		Scan for product updates Download Setup files	Completed Completed	
		Extract Setup files	In Progress	
		Install Setup files	Not started	
		Install Setup files	Not started	
			< Back Install	Cancel 9r 2012 R2
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On the *Feature Selection* screen, we recommend using the settings shown in Figure 4.8. These are the minimum required settings needed for Rock. Click Next to continue.

Feature Selection		
Recycle Bin		
1	SQL Server 2012 Setup	
Feature Selection Select the Express features to	install	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Dick Space Requirements Server Configuration Database Engine Configuration	Eatures: M Database Engine Services SQL Server Replication Shared Features Client Tools Connectivity Client Tools Softwards Compatibility	Feature description: The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by- side on the same computer.
Consistence Linguistica Consignation Error Reporting Installation Configuration Rules Installation Progress Complete	Lient Loots JJK. Management Tools - Basic Management Tools - Complete GSL Clerk Connectivity SDK LocalD8 Redistributable Features	
	Select All Unselect All Shared feature directory: CAProgram Files/Mir Shared feature directory (g86); CAProgram Files/Mir	rrosoft SQL Server\
	< <u>B</u> ack	<u>Next ></u> Cancel Help ≥ r 2012 R2
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On the Instance Configuration screen, click on the Default Instance button. Click Next.

Warning

Be sure to use *Default Instance* if you are unfamiliar with SQL Server. This will simplify our Rock setup. We only recommend using *Named Instances* if you are familiar with them.

Instance Configuration	
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Leave the default settings on the *Server Configuration* screen and click Next.

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On the *Database Engine Configuration* screen, set the *Authentication Mode* to Mixed Mode and set a password for SQL Server. Click Next.

Note:

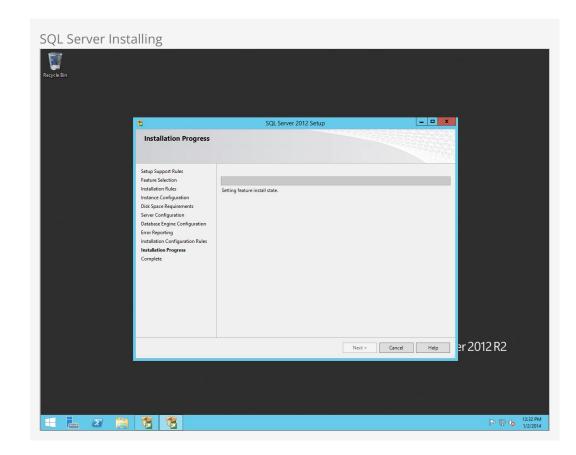
Keep this password handy since it will be needed later to set up the Rock RMS database. But remember to keep this password secure, and only share it with those who truly need it.

Database Engine Configurati	on	
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Skip past the *Error Reporting* unless you would like to send Microsoft error reports. Click Next.

Error Reporting		
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	Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Database Engine Configuration Installation Configuration Rules Installation Orgenes Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usges data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
		<back next=""> Cancel Help 21 2012 R2</back>
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Installation will begin, so hold tight.



Once it's complete with the installation, you can close the installer.

Installation Cor	nplete					
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	Complete					
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-		been installed. By default, the Help Viewer of	component uses the online library. A	fter installing		
		SQL Server, you can use the Help Library N your local computer. For more information, s	see Use Microsoft Books Online for	SQL Server		
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Now, the *SQL Server Installation Center* (the first screen of the installer) should still be open on your desktop. Whereas you clicked the first option last time, now we need to click *Install SQL Server Management Tools*. This will launch the web browser, pointed to the SSMS Download page. You need to download *SQL Server Management Studio*, not just the upgrade package. Download and then run this package. (You can close the Installation Center window now). There aren't many options in the installation of this package- just accept the license and let the installer run.

Configuring SQL Server

In this section, we'll start by setting up a user account for Rock to use to access the SQL Server. But before you begin creating users, it's important to understand the type of SQL Server environment you're working with:

- **Azure SQL Database:** A fully managed database service where you interact with the database directly. To create users in Azure SQL Database, you'll need to use actual SQL commands in SSMS. We provide you with those SQL commands after the series of screenshots below.
- **SQL Server on Azure VMs:** A traditional SQL Server instance running on an Azure Virtual Machine. In the context of creating new users, this is the same as hosting locally. Instead of running SQL commands, you can use the windows and screens pictured below.

Creating a New User Account (Azure VM or Local)

To begin, let's open SQL Server Management Studio. Change the Windows Authentication option to SQL Server Authentication and log in using the password we created during

the SQL Server installation. By default, the admin username is sa. Use that username when logging in for the first time.

On the Object Explorer, expand the *Security* folder and right click on Logins and click on New Login.

	Microsoft SQL Server Manage	ement Studio (Administrator)		_ 0
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Create a login called RockUser (or another username if you prefer), set the Authentication Type to SQL Server authentication, and create a password. Be sure to keep this password secured and only share it with those who truly need it. Also, uncheck the *Enforce password policy setting* for this account.

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Next, click on *Server Roles*. Check the *dbcreator* role. Then click OK.

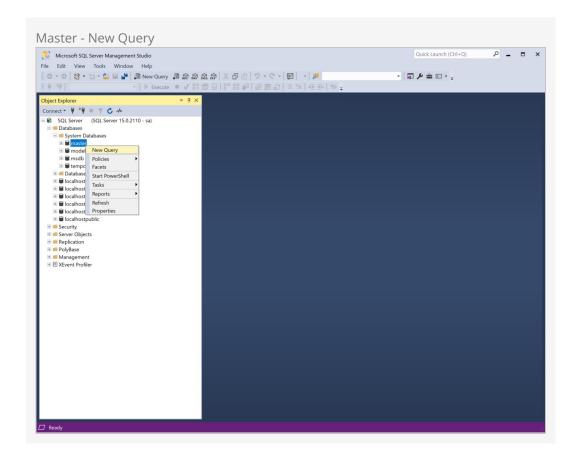
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Creating a New User Account (Azure SQL)

Open SQL Server Management Studio and change the Windows Authentication option to SQL Server Authentication. Then, log in with a username of sa and the password we created during the SQL Server installation.

We're going to be running some SQL commands. Don't worry if you're not familiar with SQL, we'll walk you through each step.

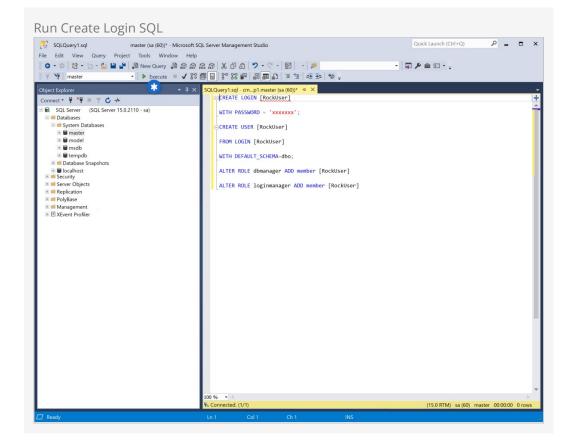
To start, expand the *Databases* folder and then expand the *System Databases* folder. Right-click the master database and select *New Query*.



Paste the SQL below into the *New Query* window. Be sure to update the password, keeping it in single quotes. Do not use special characters for this password.

```
CREATE LOGIN [RockUser]
WITH PASSWORD = 'xxxxxx';
CREATE USER [RockUser]
FROM LOGIN [RockUser]
WITH DEFAULT_SCHEMA = dbo;
ALTER ROLE dbmanager ADD member [RockUser]
ALTER ROLE loginmanager ADD member [RockUser]
```

To run the SQL, simply click the *Execute* button as pictured below.



At this point you would proceed with the *SQL Server Configuration Manager* setup described in the next section below, followed by the firewall configuration. Then proceed to the Installing Rock chapter, where your database will be built.

After your database is built, come back to SSMS. To access your new database, expand the *Databases* folder. The new database should be listed below the *System Databases* and *Database Snapshots* folders. Just like we did above, right-click the database name and select *New Query*. Paste the below SQL into the query window and execute it.

```
CREATE USER [RockUser]
FOR LOGIN [RockUser]
WITH DEFAULT_SCHEMA = dbo;
ALTER ROLE db_owner ADD member [RockUser]
```

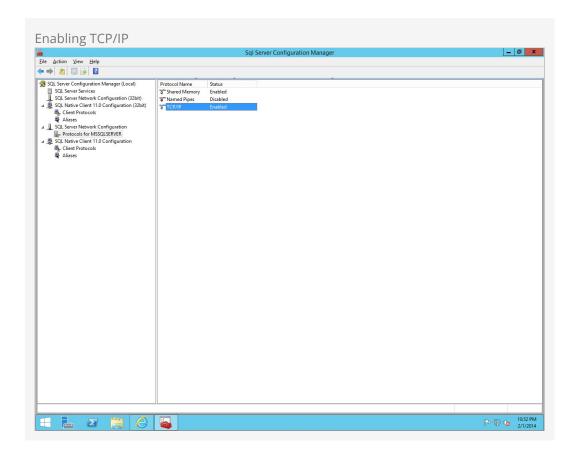
You can test the newly-created RockUser login by quitting and restarting SSMS, then entering the new user and password to log back in.

SQL Server Configuration Manager

Now let's open up *SQL Server Configuration Manager*. Expand the *SQL Server Network Configuration* item and click on *Protocols for MSSQLSERVER*. Right click on *TCP/IP* and click on *Enable*.

Opening the SQL Manager

You can run the *SQL Server Configuration Manager* by navigating to Start > Microsoft SQL Server yyyy > SQL Server yyyy Configuration Manager, or by navigating to Start > Run. Refer to the SQL Server Configuration for instructions for your file name depending on your version of SQL Server.



Next, click on *SQL Server Services* and then right click on <u>SQL Server Agent (MSSQLSERVER)</u> and click on <u>Properties</u>.

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Set the start mode to *Automatic* and click on Apply. Now, since our earlier changes warned us that we'd need to restart the service to take effect, you should right-click the SQL Server service and choose "Restart".

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Firewall with Advanced Security

Next, let's open up *Firewall with Advanced Security*. Right click on Inbound Rules and click New Rule.

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Click on Port and click Next.

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File						
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	Windows Firewall with Advance			Actions	_	
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	Select the type of firewall rule to	create.		Filter by State		
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	 Rule Type 	What type of rule would you like to create?		View		
	Protocol and Ports			Refresh		
	Action	O <u>P</u> rogram		📑 Export List		
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	 Name 	Port Rule that controls connections for a TCP or UDP port.				
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		BranchCache - Content Retrieval (Uses HTTP)				
		Rule that controls connections for a Windows experience.				
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Choose TCP and type in the specified local port, "1433."

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Windows Firewall with Advance		
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Protocol and Ports	• ICP	50 Apr 27
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Name	Does this rule apply to all local ports or specific local ports?	
	O All local ports	
	Specific local ports: 1433	
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Click on Allow the connection and click Next.

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Choose which profiles this rule is applied to and click $\ensuremath{\,{\tt Next}}$.

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		Name		Private Applies when a computer is connected to a private network location, such as a home				
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Give the rule a name and click Finish.

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Name	SQL Server			
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If you're installing Rock and SQL Server on the same server (see warning below) then you'll probably want to lock down port 1433 so that your database is not exposed to the internet. In that case, open the firewall rule you created above. Under the *Scope* tab add 127.0.0.1 to both the Local IP address and to the Remote IP address sections. 127.0.0.1 is the local host where SQL Server is installed. This prevents anyone from outside that server from accessing your database. This does not apply to an Azure setup.

PCI Compliance

If you're planning on processing credit cards within Rock, it's not PCI compliant to have the web server and database on the same server. Regardless of the size of your organization, it's not allowed.

That's it! Let's move on to the next chapter.

Installing Rock

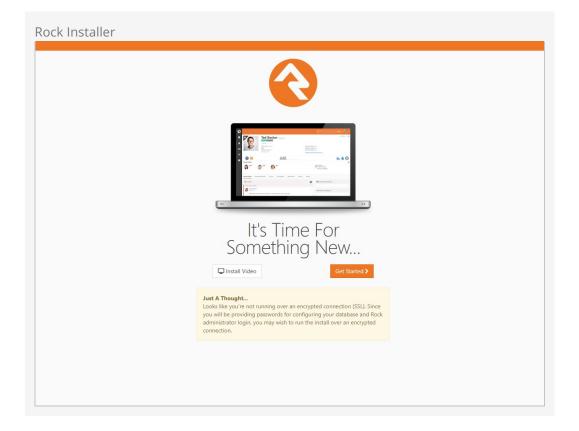
Now that our foundation is set, we can begin the best part - installing Rock!

The first thing we need to do is to download the Rock installer, which you can find at rockrms.com/Rock/GetStarted. Place the *Start.aspx* and *web.config* files from the installer package in the root of the web folder. By default, the web root folder will be located here: C:\inetpub\wwwroot.

Tip: make a fresh start!

If you're installing in the default wwwroot folder, you'll see that Windows has already placed some content here. Be sure to delete that before starting your installation; only Start.aspx and web.config should be in that directory.

Open up a web browser and go to http://localhost/Start.aspx to begin the installation process.

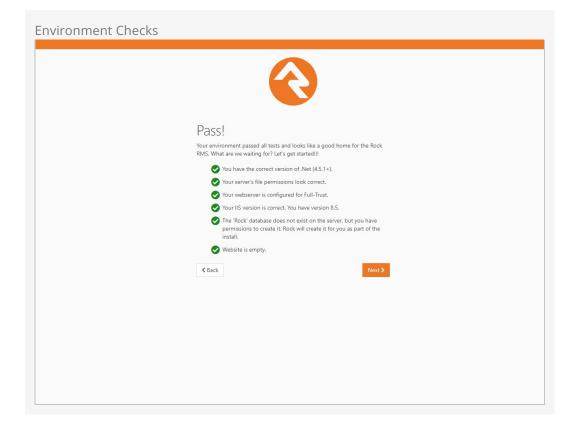


Now we will enter in the SQL server information. If the SQL server is installed on this server, you can type in "localhost" in the *Database Server* box. If you are using another server for SQL, you can enter the server name instead.

Next, enter in a name for the Rock Database (e.g. "Rock") and enter in the username and password we created earlier in the SQL Chapter. Click Next.

Database Configuration	
	Database Configuration Please provide configuration information to the database below. This information should come from your server administrator or hosting provider. Database Server Iccalhost
	Database Name rock
	Database Username
	RockUser
	Database Password Show Password
	Next >

Now the Rock installer will run some checks to make sure the environment is ready for use. If everything checks out, you will see the *Pass!* screen. Click Next.



The next screen will allow us to create an admin username and password for Rock. This will be the default admin account for Rock. Be sure to use a good password, and limit who has access to it. Click Next.

Note:

We recommend using a general or organization account, not a personal one. You can create your own login after the install.

Admin Account Setup		
	Administrator Login Please provide a username and password for the administrator's account Administrator Username RockAdmin	
	Administrator Password Administrator Password (confirm)	
	K Back Next >	

Now you'll need to enter in your organization URLs.

- Internal URL: The web address you'll use to connect to Rock internally. (Example: http://admin.rocksolidchurchdemo.com)
- **Public URL:** The public facing website for your organization. (Example: http://www.rocksolidchurchdemo.com)

Note:

Don't worry if these addresses aren't configured to point to your new server yet. These addresses are intended to be the ones you'll use once you're ready to go live.

Hosting Configuration	
	Hosting Configuration Hosting Addresses Rock needs to know where you are installing the application so it can correctly assemble links when you go to do things like send emails. These settings can be changed at anytime in your Global Settings . If you are installing Rock in subdirectory be sure to include it in the address. Internal URL Used Inside Organization https://rock.rockmsdemo.com Public URL Used Externally
	https://www.rockmsdemo.com Organization Timezone
	(UTC-07:00) Arizona

Now let's enter in your Organization Information.

- **Organization Name:** The name of your organization
- **Organization Default Email Address:** The default email sending address for Rock
- **Organization Phone Number:** The main phone number of your organization
- Organization Website: The website of your organization

Note:

Don't worry, these settings can be changed later under Admin Tools > General Settings > Global Attributes

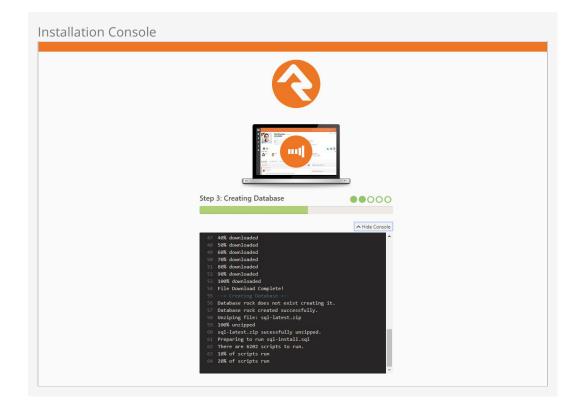
Organization Information	
	$\mathbf{\widehat{C}}$
	Organization Information Please enter some information about your organization. These fields are used to provide default information in the database. It is in no way shared with us or anyone else.
	Organization Name
	Rock Solid Church Demo
	Organization Default Email Address
	info@rockrmsdemo.com
	Organization Phone Number
	(623) 555-1234
	Organization Website https://www.rockrmsdemo.com
	K Back Next >

Now that you have all of your organization's information entered into Rock, click Next to begin the Rock installation.

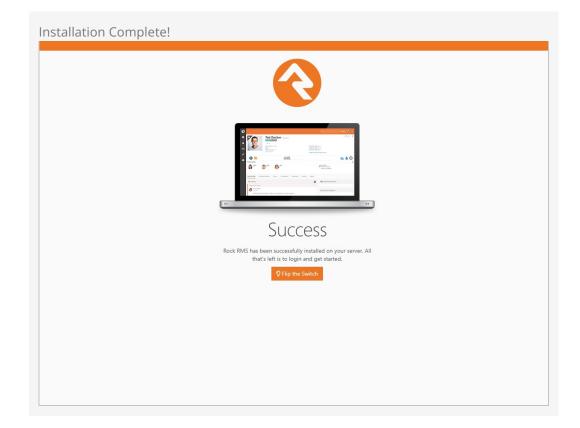
Installation Progress		
	\bigcirc	
	Step 1: Downloading Database	00000
		✓ Show Console

Rock will begin downloading the needed files onto the webserver and configuring the

database. You can observe this process by clicking on the **Show Console** button.



When complete, click on the Flip the Switch button. Keep in mind, this loading screen will take the longest to load since Rock is starting up for the first time.



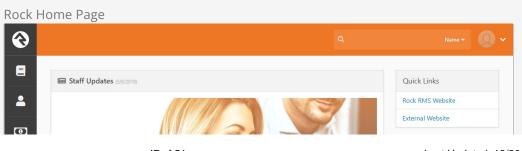
Note

If you arrive at the external site instead of the internal login page it could be that the domain name is set to be used as the external site. When Rock isn't provided with a specific page to load in the URL it looks at the domain and finds a site in the database that matches. If this happens to you, you can get to the internal site by this URL: http://{yourserver}/page/12

Now that Rock is installed, you can begin by logging in. Log in with the Rock admin account you created during the installation.

ogon Screen	<pre>C</pre>		
	Username		
	RockAdmin	=	
	Password		
	Keep me logged in		
	Log Ir	i (
	Forgot Acc	count	

Once logged in, you'll be taken to the Rock homepage. You will see the *Administrator Checklist*, which is a list of the recommended first steps to maximize the potential of Rock at your organization. Don't worry about completing the list today. You can get to it as you become more familiar with Rock. The list will disappear once you mark off all the items. It may reappear after updates, if special configurations are needed. Think of it as a friend that only shows up in your time of need.





Let The Adventure Begin

Adjust that cape, because it's time to fly. Prepare to unlock your inner superhero as you learn and discover what Rock can do for you. With a little effort and help from the community, you'll soon be faster than a locomotive and able to leap over a building of any height.

Your first step... Update the content on this page to engage your peers in the adventure ahead. You can edit this content here, or watch this video for more information on Rock's Staff Update feature.



Superhero Training

Increase your knowledge in all

learning style, we have you

Administrator Checklist

Setup Group Types

Enable Following Jobs

Enable Family Analytics

Update External Applications

covered.

More Info

2

things Rock with our wide array of

training materials. No matter your



Every superhero has a side-kick.

Pick yours from our list of Rock

partners. Together you can beat

Our Community Rocks

Rock isn't a product, it's a community of like-minded individuals banded together to make a difference.

~

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More Info





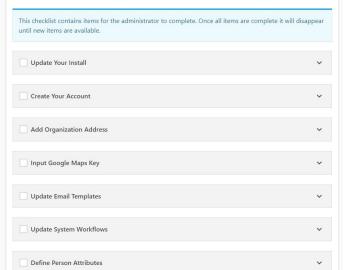
Hand

any challenge.

More Info









Current Guests: 1

Active External Users There are no logged in users on the External Website site.

Snapshot Isolation Settings

We recommend enabling snapshot isolation for your Rock database. This keeps database reads from being locked by database writes. Below are the settings we recommend (found by right-clicking on the database name in SQL Server Management Studio and selecting **Properties**.)

间 Database Properties - RockRMS				_		×
Select a page General	🔄 Script 🔻 🚺 Help					
♂ Files ♂ Filegroups	Collation:	SQL_Lat	in1_General_CP1_CI_AS			~
2 Options	Recovery model: Simple					~
Change Tracking						
Permissions	Compatibility level: SQL Sen		ver 2012 (110)			~
Extended Properties Mirroring	Containment type: None					~
Transaction Log Shipping	Other options:					
	✓ FILESTREAM					~
	FILESTREAM Directory Name					
	FILESTREAM Non-Transacted Access Off					
	 Miscellaneous 					
	Allow Snapshot Isolation		True			
	ANSI NULL Default		False			
	ANSI NULLS Enabled	ANSI NULLS Enabled				
	ANSI Padding Enabled		False			
	ANSI Warnings Enabled		False			
Connection	Arithmetic Abort Enabled		False			
Server:	Concatenate Null Yields Nu	Concatenate Null Yields Null				
	Cross-database Ownership	Cross-database Ownership Chaining Enabled False				
Companying	Date Correlation Optimization	Date Correlation Optimization Enabled False				
Connection:	Is Read Committed Snapsh	Is Read Committed Snapshot On True				
View connection properties	Numeric Round-Abort					
	Parameterization		Simple			
	Quoted Identifiers Enabled					
rogress	Recursive Triogers Enable	1	False			~
Ready	FILESTREAM Directory N	ane				

Default Settings May Vary

Depending on your SQL Server edition and version this may already be the default.

Two-Server Configuration

If you were looking at the system requirements in this guide's introduction, you might have noticed that there is a two-server configuration for larger installations. Even for smaller installations, we recommend two servers for the following reasons:

- **Performance:** Having your Rock Database and Web Environment on separate servers means they won't be sharing resources and will be able to perform at a higher capacity.
- **Security:** If you plan to use a public website with Rock, you can put the web server in a DMZ for added network security. Setting up a DMZ is outside the scope of this guide, but if this is something you plan on pursuing, reach out to the Rock community.
- **PCI Compliance:** PCI Requirements in the U.S. require that if you are taking or storing financial information through your website, your database must be separate from your web host.

It's All in the Details

The process for setting up a two-server environment is not that much different from the single-server setup described in this guide. Here is a high-level task list for each server:

Database Server

• Install & Configure SQL Server

Web Server

- Install the required Server Roles and Features
- Configure Internet Information Services (IIS)
- Point Rock at the database server during installation

Be sure to check out the rest of the Rock guides and manuals to help you get started.

Self-Installing Rock

If you're installing Rock and SQL Server on separate VMs or servers yourself, in your own network (not in Azure), then port 1433 should only be open to the Rock server. This is so Rock itself can talk to the SQL db. In this setup your self-hosted SQL server should not be NATed (exposed via a public IP) to the Internet at all. It should be internal to your network with only Rock (and perhaps a dev machine) allowed to talk to it.

To do this, open the firewall rule you created in the Installing & Configuring SQL Server chapter above. Under the *Scope* tab, add the IP address of your Rock web server to the Local IP address if it's on your internal network, or to the Remote IP address section if it is external to your network. No other ports need to be open if the database is external to the network (i.e., on another external server).