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

Single server with the following specs:

- CPU: 2Ghz dual core or higher
- Memory: 2GB or higher
- Storage: 30 GB
- Operating System: Windows Server 2012-2016
- SQL Server: SQL Server Express 2012-2017 (free) or SQL Server 2012-2017 Standard or higher

Watch out for PCI Compliance!

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: **Web Server**

- CPU: 2Ghz quad core
- Memory: 8GB or higher
- Storage: 50 GB
- Operating System: Windows Server 2012-2016

Database Server

- CPU: 2Ghz quad core
- Memory: 8GB or higher
- Storage: 50GB
- Operating System: Windows Server 2012-2016
- SQL Server: SQL Server 2012-2017 Standard

Large Installs

15,000+ records Two servers with the following specs: **Web Server**

- CPU: 2.5Ghz quad core
- Memory: 16GB or higher
- Storage: 100GB
- Operating System: Windows Server 2012-2016

Database Server

- CPU: 2.5Ghz quad core
- Memory: 16GB or higher
- Storage: 500GB
- Operating System: Windows Server 2012-2016
- SQL Server: SQL Server 2012-2017 Standard

Note:

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

Helpful Info:

If you plan to install Rock on a two server configuration (think web server, database server...), be sure to check out the *Special Configurations* chapter for information on how to do so.

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 ever-evolving 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.

SSL Plugin Available

Thanks to the Rock Community, there is a new 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.

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

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Dashboard Local Server	WELCOME TO SERVER MANAGER			Remove Roles and Features Add Servers Create Server Group
■ All Servers	QUICK START QUICK	Ifigure this local server add roles and features add other servers to manage create a server group		Server Manager Properties
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Click Next.



On the next screen, select Role-based or feature-based installation .



Choose Select a server from the server pool and then highlight your server from the list below. Click Next.



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



You will be prompted to add some required features for IIS. Click on $\ensuremath{\,\hbox{\tiny Add Features}}\xspace$. Then click $\ensuremath{\,\hbox{\scriptsize Next}}\xspace$.

Required Features Prompt					
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		Include management tools (if applicable)			
		Add reatures Cancel			
		< Previous Next >	Install Cancel		
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On the Select Features screen, add .NET Framework 3.5 Features and click Next.



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 box for ASP.NET 4.5.



Version information

Server 2016 has ASP.NET 4.6 instead, and the upcoming Server 2019 has ASP.NET 4.7 instead of ASP.NET 4.5. Don't worry about that difference; just check the box next to those versions instead and it'll work the same.

You will be prompted to add some required features for ASP.NET 4.5. Click on $\cite{Add Features}$.



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



 $On the final screen, select \verb|[Restart the destination server automatically if required] and click \verb|[Install]|.$

Warning:

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

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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 Specify an alternate source path 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 <code>d:\sources\sxs</code> in the alternate source path dialogue and click OK.

Installation will begin.



Congratulations! The web server is now installed. Let's move on to configuring Internet Information Services.

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.

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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 or.



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.

Recycling		
8)	Internet Information Services (IIS) Manager	_ 0 ×
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SERVER2012ROC File View Help Connections Start Page SERVER2012ROCK (SERVER20 SERVER2012ROCK (SERVER20 Application Pools b. Sites	Constraints Services (IIS) Manager Constraints Services (IIS) Manager Constraints Services (IIS) Manager Application Pools This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications. Fitter: Constraints INT V4.5 Constraints INT V4.5 Constraints Recycling Conditions Fixed Intervals Fixed In	Actions Add Application Pool Set Application Pool Defaults Application Pool Tasks Start Start Start Start Basic Settings Recycle Edit Application Pool Basic Settings Recycle Remove View Applications Wiew Applications Help
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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 ok.



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 below for version 2012.

Getting SQL Server Express

To download SQL Server Express, Click Here.

SQL Server Express comes 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.

License Agreement					
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	License Terms				
	To install SQL Server 2012, yo	u must accept the Microsoft Software License Terms.			
	License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2012 EXPRESS These license terms are an agreement between Microsoft Corporation (or based on where live, one of its affiliates) and you. Please read them. They apply to the software named ab which indudes the media on which you received it, if any. The terms also apply to any Mic updates, supplements, Internet-based services, and Gop I accept the license terms. Seed feature usage data to Microsoft. Feature usage data includes information about your har configuration and how you use SQL Server and its components. See the Microsoft SQL Server 2012 Privacy Statement for more information.	e you love, rosoft y <u>Pnint</u> dware		
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Keep the Include SQL Server Product Updates checkbox checked and click Next.

Product Updates						
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		2 updates (171 MB) found online. The Setup updates (26 MB) will be i Read our privacy statement online Learn more about SQL Server produ	nstalled when you click Next.			
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Next, the SQL installer will prepare to set up.

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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				
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		Select <u>All</u> <u>Unselect All</u> Shared feature directory: C\\Program Files\Mici	rosoft SQL Server\	
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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 familar with them.

Instance Configuration			
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	Instance Configuration	n	
-	Specify the name and instance	e ID for the instance of SQL Server. Instance ID becomes part of the installation path.	
	Setup Support Rules	Default instance	
	Installation Rules	Named instance: MSSQLSERVER	
	Disk Space Requirements	Instance JD: MSSQLSERVER	
	Server Configuration Database Engine Configuration	Instance root directory: C:\Program Files\Microsoft SQL Server\	
	Error Reporting Installation Configuration Rules	SQL Server directory: C\Program Files\Microsoft SQL Server\MSSQL11.MSSQLSERVER	
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Leave the default settings on the Server Configuration screen and click $\ensuremath{\,{\tt Next}}\xspace$.

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	Specify the service accounts ar	nd collation configuration.						
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1. Sec.	Disk Space Requirements	SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic	<u>×</u>		
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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.

Database Engine Configuration				
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	SQL Server 2012 Setup	_ _ ×		
Database Engine Co	figuration			
Specify Database Engine au	hentication security mode, administrators and data directories.			
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Server Configuration Data Directories User Instances FILESTREAM Specify the authentication mode and administrators for the Database Engine Authentication Mode Windows authentication mode Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrators (sa) account. Enter password: ••••••••••••••••••••••••••••••••••••	ne. SQL Server administrators have unrestricted access to the Database Engine.		
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Skip past the Error Reporting unless you would like to send Microsoft error reports. Click $\verb"Next"$.



Installation will begin, so hold tight.

SQL Server Installing				
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n A	Error Reporting Installation Configuration Rules			
	Installation Progress			
а » ⁴	complete			-
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			Next > Cancel Help	er 2012 R2
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Once it's complete with the installation, you can close the installer. Installation Complete

t	SQL Server 2012 Setup		- • ×	
Complete Your SQL Server 2012 installat	ion completed successfully with product updates.			
Setup Support Rules Feature Selection	Information about the Setup operation or possible n	ext steps:		
Installation Rules Instance Configuration Disk Space Requirements Server Configuration	Feature Database Engine Services SQL Browser SQL Writer SQL Client Connectivity SQL Client Connectivity	Status Succeeded Succeeded Succeeded Succeeded Succeeded		
Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress	Details:			
Compete	Viewing Product Documentation for SQL Set Only the components that you use to view and been installed. By default, the Help Viewer com SQL Server, you can use the Help Library Mana your local computer. For more information, see http://go.microsoft.com/fwlink/?LinklD=224683	erver manage the documentation for SQ ponent uses the online library. Aft gger component to download docu Use Microsoft Books Online for St b.	L Server have er installing mentation to QL Server	
	I Summary log file has been saved to the following lov <u>C:\Program Files\Microsoft SQL Server\110\Setup B</u> \ <u>Summary Server2012Rock 20140102 105945.txt</u>	ration: ootstrap\Log\20140102_105945		
		Close	Help	r 2012
		-		

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 will be setting up a user account for Rock to use to access the SQL Server. To begin, let's open the 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.

Note:

By default, the admin username for SQL 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.

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Create a user called RockUser (or another username if you prefer), set the Authentication Type to SQL Server authentication, and create a password. Also, uncheck the *Enforce password policy setting* for this account.

New User Window					
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<u>File Edit View Debug Tools Window Help</u>)				
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Ready					
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Next, click on *Server Roles*. Check the <code>dbcreator</code> role. Then click <code>ok</code>.

Login Properties						
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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 Tenable.

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🛞 SQL Server Configuration Manager (Local)	Protocol Name Statu					
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⊿ J SQL Server Network Configuration						
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Next, click on SQL Server Services and then right click on [SQL Server Agent (MSSQLSERVER)] and click on [Properties].

SQL Server Services								
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🛞 SQL Server Configuration Manager (Local)	Name	State	Start Mode	Log On As	Process ID	Service Type		
SQL Server Services	SQL Server (MSSQLSERVER)	Running	Automatic	NT Service\MSSQL	1204	SQL Server		
	COL Server Browser	Stopped	Other (Boot, Syste	NT AUTHORITY\LO	0			
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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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Protocols for MSSQLSERVER									
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		Host Name		SERVER2012ROCK					
		Name		SQL Server Agent (MSSQLS	SERVER)				
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	Sta	art Mode e start mode	of this service.	Cancel Apply	Help				
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Next, let's open up Firewall with Advanced Security. Right click on Inbound Rules and click New Rule.

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Windows Firewall with	Advance Inhound Bules				Actions	
Inbound Rules	the second rates	a A	0.0		Actions	
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🗽 Connection Securit	Rules	BranchCache - Content Ketr	All		New Rule	
Monitoring	BranchCache Hosted Cache Server (HTTP-In)	BranchCache - Hosted Cach	All		Filter by Profile	•
	COM+ Network Access (DCOM-In)	COM+ Network Access	All		Filter by State	
	COM+ Remote Administration (DCOM-In)	COM+ Network Access	All	=		
	Core Networking - Destination (DCOM-III)	Core Networking	All		Y Filter by Group	•
	Core Networking - Destination Unreachable Fragmentation N	Core Networking	All		View	•
	Core Networking - Dynamic Host Configuration Protocol (DH.	Core Networking	All		G Refresh	
	Core Networking - Dynamic Host Configuration Protocol for L	Core Networking	All		Evnort List	
	Ore Networking - Internet Group Management Protocol (IG	Core Networking	All			
	Ocore Networking - IPHTTPS (TCP-In)	Core Networking	All		Help	
	Ocore Networking - IPv6 (IPv6-In)	Core Networking	All			
	Ore Networking - Multicast Listener Done (ICMPv6-In)	Core Networking	All			
	Ore Networking - Multicast Listener Query (ICMPv6-In)	Core Networking	All			
	Ore Networking - Multicast Listener Report (ICMPv6-In)	Core Networking	All			
	Ore Networking - Multicast Listener Report v2 (ICMPv6-In)	Core Networking	All			
	Ore Networking - Neighbor Discovery Advertisement (ICMP	Core Networking	All			
	🕢 Core Networking - Neighbor Discovery Solicitation (ICMPv6-In) Core Networking	All			
	🔇 Core Networking - Packet Too Big (ICMPv6-In)	Core Networking	All			
	🔇 Core Networking - Parameter Problem (ICMPv6-In)	Core Networking	All			
	Core Networking - Router Advertisement (ICMPv6-In)	Core Networking	All			
	Ore Networking - Router Solicitation (ICMPv6-In)	Core Networking	All			
	🕢 Core Networking - Teredo (ICMPv6-In)	Core Networking	All			
	🔮 Core Networking - Teredo (UDP-In)	Core Networking	All			
	Ore Networking - Time Exceeded (ICMPv6-In)	Core Networking	All	- 1		
	Distributed Transaction Coordinator (RPC)	Distributed Transaction Coo	All			
	Distributed Transaction Coordinator (RPC-EPMAP)	Distributed Transaction Coo	All			
	Distributed Transaction Coordinator (TCP-In)	Distributed Transaction Coo	All			
	File and Printer Sharing (Echo Request - ICMPv4-In)	File and Printer Sharing	All	- 1		
	File and Printer Sharing (Echo Request - ICMPv6-In)	File and Printer Sharing	All			
	File and Printer Sharing (LLMNR-UDP-In)	File and Printer Sharing	All			
	W File and Printer Sharing (NB-Datagram-In)	File and Printer Sharing	All	Y		
< 111	> <		>		<u> </u>	

Click on Port and click Next.



Choose TCP and type in the specified local port, "1433."



Click On Allow the connection and click Next.



Choose which profiles this rule is applied to and click Next.



Give the rule a name and click Finish.

Firewall Rule	Name						
Recycle Bin			Windo	ows Firewall with Advanced Securit	ty		– – X
neeyere ont	File	Action View Help					
	(= =	🔌 🙍 🖬 🔒 🔽 🖬					
	🔗 W	/indows Firewall with Advan	bound Rules			Actions	
	5	Linhound Ruler	New Jebourd Pu	lo Wizard	X P ^	Inbound Rules	A
		-	New Inbound Ru	le Wizard		🙇 New Rule	
	D 💐	Name				Filter by Profile	•
		Specify the name and descri	of this rule.			Filter by State	→ →
		Steps:			=	Filter by Group	•
		Rule Type				View	• •
		Protocol and Ports				Refresh	
3		Action				Export List	
		Profile	Name:			🚺 Help	
		Name	Logic Server				
			Description (optional):				
—							
-				< Back Finish	Cancel		
			File and Printer Sharing (LLMNR-UDP-I	n) File and Printer SI	haring All		
			File and Printer Sharing (NB-Datagram	-In) File and Printer St	haring All 🗸		
	<	III >	III		>		
			3				D (D 411:44 PM
	2						2/1/2014

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* file 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 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.

tabase Configuration	
Database Configuration	
Please provide configuration information to the database below. This information should o provider.	come from your server administrator or hosting
Database Server	
localhost	
Database Name	
Rock	
Database Username	
DatabaseUser	
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].

Environment Checks	
Pass!	
 You have the correct version of .Net (4.5.1+). Your server's file permissions look correct. Your webserver is configured for Full-Trust. Your IIS version is correct. You have version 8.5. The 'Rock' database does not exist on the server, but you have persmissions to create it. Rock will create it for you as part of the install. Website is empty. 	
★ Back	

The next screen will allow us to create an admin username and password for Rock. This will be the default admin account for Rock. 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 Setun									
Administrator Login									
Please provide a username and password for the administrator's account									
Administrator Username									
RockAdmin									
Administrator Password									
Administrator Password (confirm)									
< Back Next >									

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

- Internal URL: The web address you'll use to 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 Config	guration	
Hosting Addresses		
Rock needs to know where you a These settings can be changed a If you are installing Rock in subdirector	are installing the application so it can correctly assemble links when you go to do things like send emails. at anytime in your Global Settings. y be sure to include it in the address.	
Internal URL Used Inside Organizati	ion	
http://admin.rocksolidchurchd	lemo.com	
Public URL Used Externally		
http://www.rocksolidchurchde	mo.com	
Organization Timezone		
(UTC-07:00) Arizona	•	
< Back	Next >	

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	
Organization Information	
Please enter some information about your organization. These fields are used to provide default information in the database. It is i shared with us or anyone else.	in no way
Organization Name	
Rock Solid Church Demo	
Organization Default Email Address	
info@rocksolidchurchdemo.com	
Organization Phone Number	
6235551234	
Organization Website	
http://www.rocksolidchurchdemo.com	
< Back	Next >

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

Installation Progress	
Step 1: Downloading Database	
	✓ 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.

Installation Complete!
SUCCESS
Rock RMS has been successfully installed on your server. All that's left is to login and get started.
Q Flip the Switch

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.

Logon Screen		
	Login	
	Login with Rock Solid Church Demo account	
	Username	
	RockAdmin	*
	Password	
		*
	Remember me on this computer	
	Login Forgot Account	

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 maxmize the potential of Rock at your organization. Don't worry about completing the list today. You can get to it as you become more familar 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.

к ноте	Page			
ک ا	3	Q	Group Name + Hello Admin	
)	Administrator Checklist		Quick Links	
3				
	This checklist contains items for the administrator to complete. Once all items are complete it will disapper available.	ear until new items are	External Website	
	Update Your Install	~	Active Internal Users	
	Create Your Account	~	There are no logged in users on the Rock RMS site.	
	Setup Location Service	~	Active External Users	
	Add Organization Address	~	There are no logged in users on the External Website site.	
	□ Input Google Maps Key	~		
	Update Email Templates	*		
	Update System Workflows	~		
	Update Welcome Message	~		
	Define Person Attributes	~		
	Setup Group Types	~		
	Update External Applications	*		
V	Velcome to Rock			
A	dministrators, add your organization's welcome message here.			
Cr	afted by the Spark Development Network / License			

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 Manager and selecting Properties .)

Snapshot Isolation Settings

General Files Piles Options Change Tracking Permissions	Co	Script 🔻 🎦 Help				
Genisola Files Filegroups Options Change Tracking Permissions	Co	lation :				
Filegroups Controls Change Tracking Permissions	Co	lation:				
Coptions Change Tracking	Re	IIGUUIT.	SQL La	tin1 General CP1 CI AS		~
Permissions		dal.	Cincela			
Permissions	The	covery model.	Simple			~
	Co	mpatibility level:	SQL Ser	ver 2012 (110)		~
Extended Properties	Co	Containment type: None			~	
Mirronng	~					
Transaction Log Snipping	Ot	ner options:				
		. 2↓ 📼				
	~	FILESTREAM				^
		FILESTREAM Directory Name		1		
		FILESTREAM Non-Transacted A	ccess	Off		
	~	✓ Miscellaneous				
		Allow Snapshot Isolation		True		
		ANSI NULL Default		False		
		ANSI NULLS Enabled		False		
	F	ANSI Padding Enabled	ng Enabled False			_
		ANSI Warnings Enabled		False		_
Connection		Arithmetic Abort Enabled		False		
Server:		Concatenate Null Yields Null		False		
		Cross-database Ownership Chaini	ng Enabled	False		
Connection:		Date Correlation Optimization Enabled False			-	
		Numeric Deuted Shapshot Un True		Falso		_
View connection properties		Parameterization Simple				
		Quoted Identifiers Enabled		False		
Program	Becursive Tringers Enabled False		False			
Togress	F	ILESTREAM Directory Name				
Ready						

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

Default Settings May Vary

Special Configurations

In this chapter, we will go over some ways that you can maximize the performance of Rock.

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. There are a few benefits for this kind of configuration.

- **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 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.