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We are extremely pleased with the partnership of Merit and Rock. We believe the power of the Rock will be enhanced for Fellowship Greenville, as well as other ministries, because of Merit's excellence in Information Technology services and it's passion for the Kingdom.

-Eddie Holeman, Fellowship Greenville

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Introduction

For some organizations, the prospect of managing servers is daunting. Fortunately, traditional hosting companies offer an affordable alternative. Picking the right vendor and package is critical to your success. We've made the recommendations below based on our direct experiences with hosting Rock in their environments.

Just So You Know...

We do not have any relationship with, nor are we recommending, any specific web hosting companies. We have only tested and confirmed that Rock can be installed on the services in this book. It is up to each organization to choose its service wisely.

PCI Can Be Difficult

PCI is a set of rules governing websites that process credit cards. This can affect the organizations using Rock's online giving tools. We're in the process of defining some recommendations in this area, though ultimately it will be each organization's responsibility to ensure that they are meeting all PCI audit requirements. Note that hosting recommendations and requirements could change based on the output of our research.

Understanding Web Hosting

Before we jump into our recommendations, we believe it's important for you to understand the basics of the web hosting market. This will help you understand the differences between the various vendors and packages.

As you shop for a web host, keep two points in mind:

- Rock should be a strategic part of your organization. It makes sense to invest in a quality home for it that will not only support your current needs, but also help you grow to the next level.
- Rock isn't your mother's recipe site, it's a sophisticated application using the latest technology. It also needs to crank through large amounts of data to drive its relationship management tools.

Density

In the end it all comes down to how many websites are packed onto a single server. You'll see packages that start for as little as \$5/month. This tells you that you can expect hundreds of sites to be packed onto one server. Others may be two to ten times as much. Yep, you guessed it, fewer sites per server. And fewer sites mean more resources for your website. As you can see, price alone isn't a good measure of a hosting company.

Hosting Models

There are a couple of different hosting models to be aware of as you determine the perfect place to host. We cover each of these models below:

Shared Hosting

In a shared hosting model, several websites (many times hundreds) are run together on the same server. While there are rules put in place to help limit a single site from using all the server's resources, there isn't enough space for all the sites to be busy at the same time. In the end, it's always a bit of a battle for resources. How fierce the battle is depends on the number and size of the sites on the server. Think of shared hosting as a family. In a large family, brothers often have to fight each other for that last dinner roll at the table.

Knowing the limits put on your site is important. The resource monitor is commonly called the *AppPool* on a Windows host. The AppPool is limited to a maximum amount of memory and CPU. We recommend a base of 300MB of memory and 20% limit on CPU.

Virtual Private Server (VPS)

On a VPS plane, one physical server is divided into several smaller server slices that each act as their own virtual server environment. This gives you dedicated resources you won't need to fight for. In return, you will pay more, but you can expect consistent performance as your destiny is in your hands.

VPS servers also come with limits. While their memory and CPU levels are much higher than their shared cousins, the VPS server must also run its own version of Windows in that space. Because of this, we recommend at least 2GB of RAM and at least one CPU core.

Cloud Hosting

Cloud hosting takes the VPS model one step further. In this model, your *virtual server* can run in a clustered environment (*Tech Translation: across more than one physical server*). This often adds additional reliability - but at a cost.

Recommended resources for a cloud server are the same as those of a VPS server - a minimum of 2GB of RAM and 1 CPU core.

Dedicated Server

The dedicated server is the largest and most expensive route. With it, you are given the complete resources of the physical server. It's all yours - anything goes! One gotcha to this approach is that it's harder to add more resources to a dedicated server than it is a VPS or cloud option.

Our Recommendations

We believe in choices, hence we've outlined several hosting options below. However we **highly** recommend that you consider hosting with Managed Ministries for the reasons below.

- They are a 501c3 who has served the local church for several years.
- Their hosting includes the installation of Rock.
- They have a strong technical team who specializes in .Net technologies.
- They know Rock.

You may notice that Managed Ministries hosting prices are more than the other general webhosts listed. When you compare what you get however you'll notice a few differences.

- Managed Ministries gives you more server resources than their counterparts.
- Their production packages give you an SSL certificate.
- They offer automated backups.
- Managed Ministries also provides several options for growing your environment over time.

Base Requirements

No matter what host or package you choose, it must meet the following requirements:

- **Windows:** This will be the largest filter for vendors. Do they provide Windows web hosting?
- **IIS 8:** Ensure your vendor supports IIS 8 with full-trust.
- **ASP.Net:** Version 4.5.1 (or better)
- **SQL Server 2012/2014:** Be sure that the package you select is for Microsoft SQL Server (not MySql) and that it provides enough space for your database (recommendations below).

Small (100 - 2,500 records)

For small organizations, we recommend one of the options below. Be sure to think about growth. If your budget can manage a larger account, you won't regret having the additional resources. *"This website is too fast,"* said no one...

- **Option 1:** Managed Ministries Playground (\$19/m)
- **Option 2:** WinHost Ultimate (\$15.95/m)
- **Option 3:** 3 Essentials .Net Pro 2G (\$25/m)

Medium (2,501 - 5,000 records)

For medium-sized organizations, we've outlined the options below. Again, purchase what your budget allows.

- **Option 1:** Managed Ministries Mission Ready (\$90/m)
- **Option 2:** 3 Essentials .Net Pro 3G (\$40/m)
- **Option 3:** 3 Essentials .Net Pro 4G (\$60/m)

Large (5,001 - 10,000 records)

At this size, your organization is starting to bridge between different hosting models. Hopefully, though, your budget allows you to move into these new tiers.

- **Option 1:** Managed Ministries Mission Critical (\$175/m)
- **Option 2:** Liquid Web Strom SSD (starting at \$225/m)

Extra Large (10,001 - 100,000 records)

With this size, you should definitely be looking at larger cloud or dedicated plans. Below are some ideas of where to start.

- **Option 1:** Managed Ministries Mission Critical w/ Upgrades (starting at \$175/m)
- **Option 2:** Liquid Web Strom SSD (starting at \$225/m)
- **Option 3:** Azure VM
- **Option 4:** Dedicated Windows Server

Determining Record Counts:

For churches, we find that a good rule of thumb for determining record counts is to take your weekly attendance and multiply it by 10.

Preparing for Rock

Some Things To Know

Here are some things to consider before you install Rock:

Domain Name: If you decide to purchase a domain name (i.e. www.rocksolidchurchdemo.com) for Rock, we recommend getting one from your same hosting provider. In most cases, hosting providers make it easy to connect your domain to your Web site and hide the mess of dealing with DNS settings. If you decide not to, that's great! Rock will work just fine.

Email: Depending on your email needs, you might need to leverage a cloud-based email service like Mailjet to be able to send thousands of emails without complications. You'll want to explore this when you pick a hosting provider.

Things You'll Need During Installation

To prevent you from running into any "surprises" during installation, here are some things you should have handy:

- Email settings from your email server.
- Internal and external web addresses from your organization.
- An email address to send exception messages to.

Other Considerations

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.

Managed Ministries

This could not be simpler... simply sign-up here... and **BAM**, you're done. You'll have a full Rock site ready for you in a matter of hours.

Winhost

In this chapter, we'll go over how to install Rock at Winhost. To get started, purchase an Ultimate Hosting Plan and then log into the *Site Manager*. Once complete, we'll take it from here.

Note:

The additional resources found in Winhost's Ultimate Plan is highly recommended for Rock. While some of their smaller plans might work, you could have issues with them during high usage or updates.

The Site Manager

Below is the Winhost Site Manager. This is where we will setup our environment.

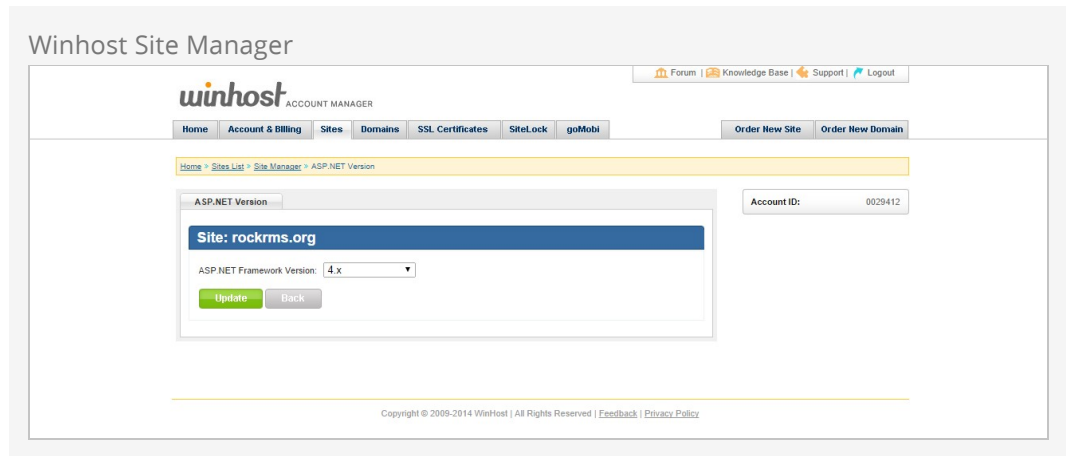
The screenshot displays the Winhost Site Manager interface. At the top, there is a navigation bar with links for Forum, Knowledge Base, Support, and Logout. Below this is a secondary navigation bar with tabs for Home, Account & Billing, Sites, Domains, SSL Certificates, SiteLock, and goMobi. The main content area is divided into several sections:

- Site Info:** A table listing site details for rockrms.org, including Plan (Ultimate), Billing Period (Quarterly), Web Server (Windows 2012 with IIS 8.0), Server Name (w18), Secondary Web URL (rockrms.w18.wh-2.com), Path to root (E:\web\rockrms\), FTP (ftp.rockrms.org), Secondary FTP (ftp.w18.wh-2.com), FTP Username (rockrms), FTP Password (***** [Update]), IIS Manager Login (Same as FTP Login [more info]), Web Deploy ([Publishing Information]), Site IP Address (96.31.35.189), and SMTP/POP/IMAP (mail.rockrms.org).
- Site Tools:** A grid of icons for various management tools: Email, Stats, Raw Logs, Usage Meter, ASP.NET Version, Integrated or Classic Mode, Application Starting Point, Recycle App. Pool, MS SQL Manager, DSN Manager, MySQL, SSL Manager, FTP Users, Subdomain Manager, Domain Pointer, DNS Manager, App Installer, SiteLock, and goMobi.
- Premium Site Tools:** A section for Scheduled Tasks.
- Account ID:** 0029412
- RELATED KB ARTICLES:** A list of links to knowledge base articles, such as "Control Panel Site Info tutorial", "How do I change the plan for my site (upgraded/downgraded)?", "Password protecting directories in IIS 7", "HTTP 500 - Internal Server Error information", "Using the Microsoft IIS 7.0 Manager", "Publishing your web project using Web Deploy", "ACL was altered after using VS web deploy", "Deploying a Visual Studio 2008/2005 or Visual Web Developer 2008/2005 web project", "Deploying a Visual Studio 2010 Web Site Project", "Deploying a Visual Studio 2010 Web Application Project", "Deploying a web application using Microsoft Expression Web Designer", and "How do I connect to my site with cPanel Dreamweaver?".

At the bottom of the page, there is a footer with copyright information: Copyright © 2009-2014 Winhost | All Rights Reserved | Feedback | Privacy Policy.

Checking the Environment

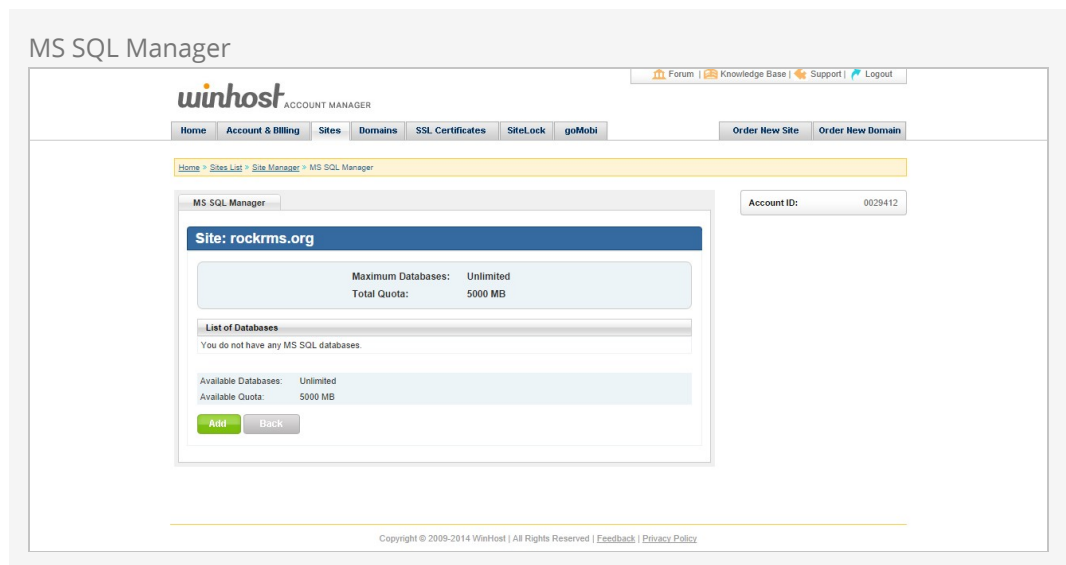
The first thing we want to do is verify that our Winhost site is configured to use ASP.NET 4.x. To get started, click on *ASP.NET Version* and verify that the ASP.NET Framework Version is set to 4.x.



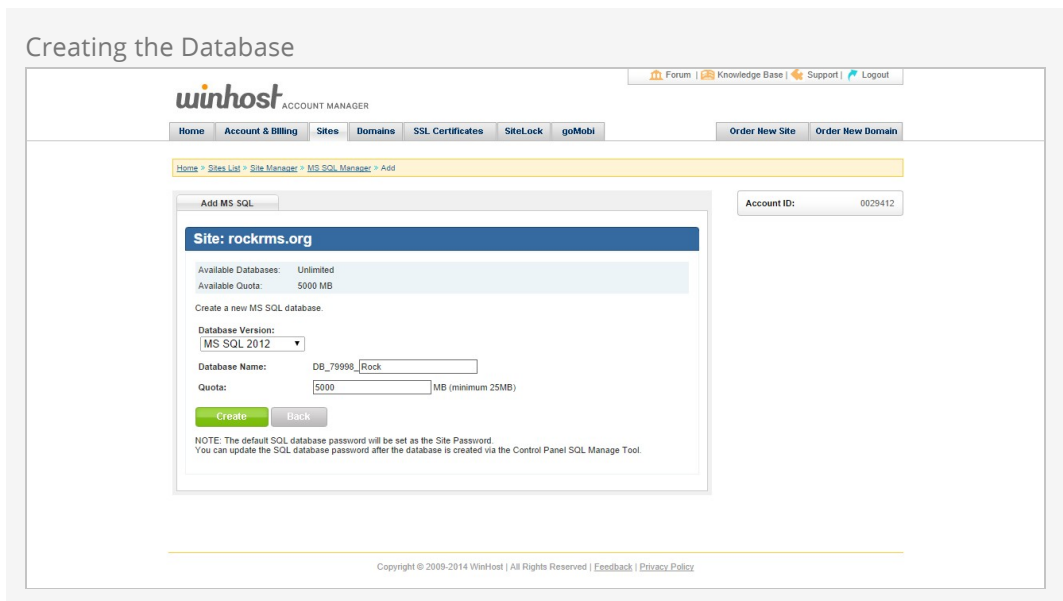
Once complete, go back to the Site Manager.

Setting up the Database

Now we will create our Rock Database. Click on *MS SQL Manager*. On the MS SQL Manager page, click on *Add*.



Next, change the Database Version to MS SQL 2012, create a Database Name and set your quota to the maximum available (5000 mb). Make a note of your new database name and click *Create*.



Uploading the Installer

Now we will need to upload the Rock installer. For this step, you will need to have a FTP client installed (such as FileZilla) and be logged in with your FTP credentials. The credentials can be found on the main Site Manager page.

Next, we will need to get the Rock RMS installer. To get the installer, go to rockrms.com/Rock/GetStarted. Once we have the installer, place the Start.aspx at the root of the site via FTP.

Note:

Make sure to clean out the root folder of the site before installing Rock. That way we will have a clean environment to start with.

Ready to Install!

Now that our foundation is set, we can get the Rock installer going. Open up a web browser and go to <http://yourdomain.com/Start.aspx>. Head over to the chapter

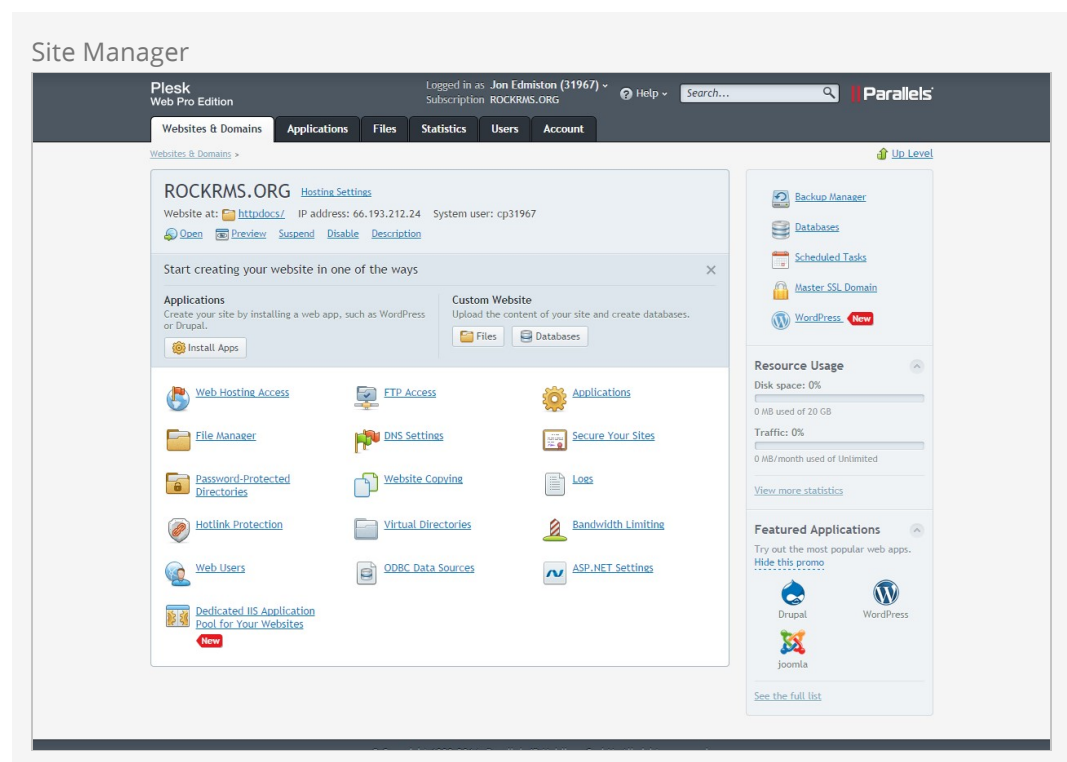
[Installing Rock](#) for detailed instructions on how to install Rock.

3 Essentials

3 Essentials is a vendor that specializes in Dot Net Nuke (DNN) which shares a similar architecture with Rock RMS. Their VPS plans are a good choice for Medium to Large sized organizations. We recommend using one of the Pro series Managed ASP.Net plans. After signing up you will receive an email with all of your login information. These steps below take it from there.

The Site Manager

Below is the 3 Essentials Plesk Site Manager. This is where we will setup our environment.

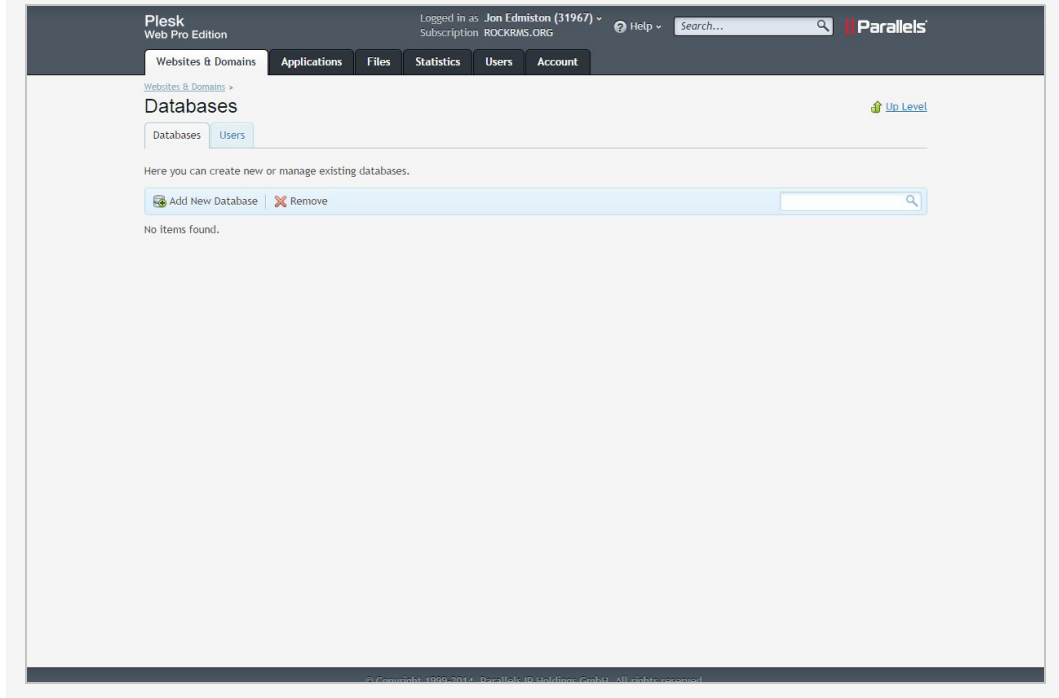


Creating The Database

From the site manager select the *Databases* button.

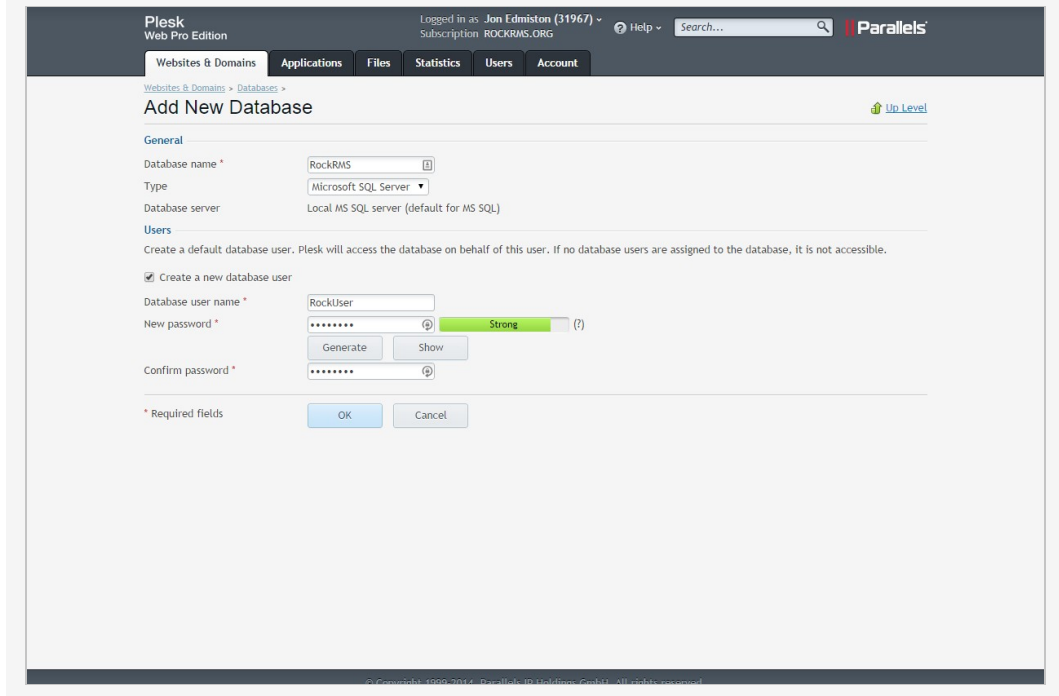
Click *Add New Database* button.

Database List Screen



Enter in the database name, login and password for the database. Press **OK** when done.

Add Database



You'll now see the database you entered. During the install be sure to use the database server name of 'localhost'.

Database List

The screenshot shows the Plesk Web Pro Edition interface for managing databases. The user is logged in as Jon Edmiston (31967) with a subscription for ROCKRMS.ORG. The 'Databases' section is active, showing a notification that the database 'RockRMS' was created. Below the notification, there are tabs for 'Databases' and 'Users'. A table lists the existing database:

T	Name	Database server	Users
	RockRMS	Local MS SQL server	RockUser Copy

At the bottom of the table, it indicates '1 items total' and 'Entries per page: 10 25 100 All'.

Uploading The Install File

With the database complete we next need to upload the Start.aspx file from the install package. That's easily accomplished under the *Files* menu. You'll want to delete all of the items in the *htdocs* directory first.

Database List Screen

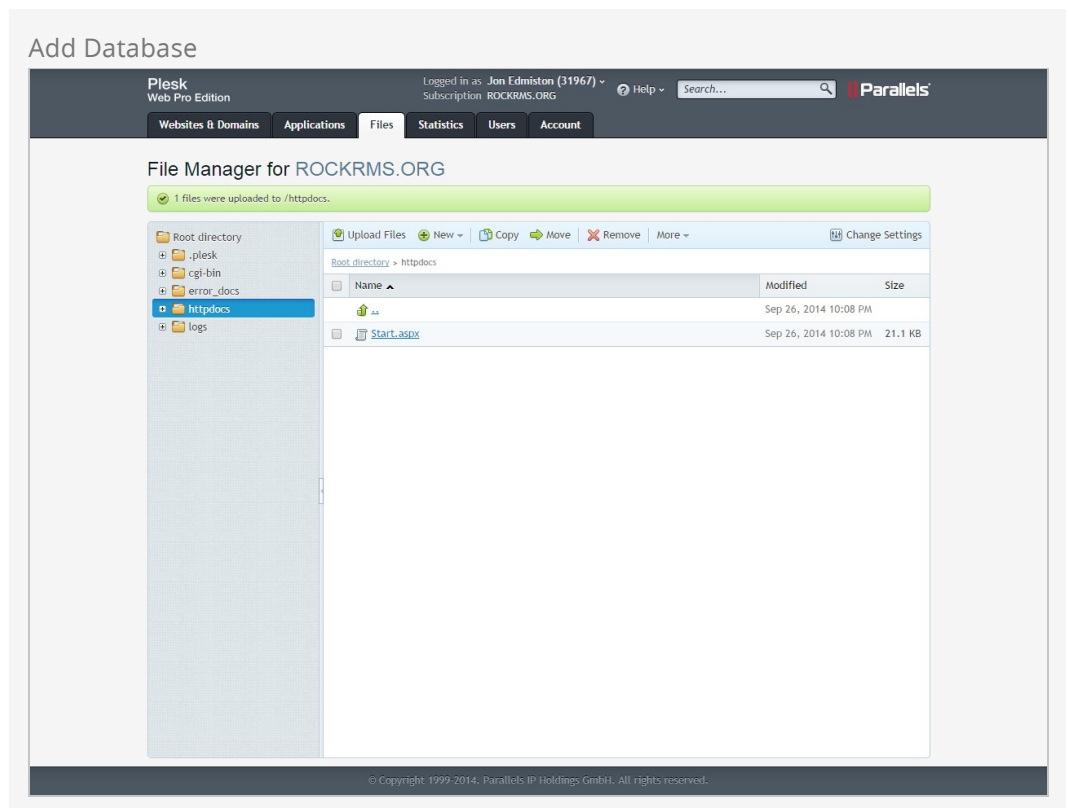
The screenshot shows the Plesk File Manager interface for the website ROCKRMS.ORG. The 'Files' menu is selected, and the 'htdocs' directory is highlighted in the left sidebar. The main area displays a list of files and folders in the 'htdocs' directory:

Name	Modified	Size
.plesk	Sep 26, 2014 02:33 PM	
cgi-bin	Sep 26, 2014 02:32 PM	
error_docs	Sep 26, 2014 02:32 PM	
httpdocs	Sep 26, 2014 02:32 PM	
logs	Sep 26, 2014 02:32 PM	
App_Data	Sep 26, 2014 02:33 PM	
css	Sep 26, 2014 02:32 PM	
img	Sep 26, 2014 02:32 PM	
test	Sep 26, 2014 02:32 PM	
favicon.ico	Sep 26, 2014 02:32 PM	1.1 KB
index.html	Sep 26, 2014 02:32 PM	8.6 KB

At the bottom of the page, there is a copyright notice: © Copyright 1999-2014 Parallels IP Management GmbH. All rights reserved.

Once these files are removed use the *Upload Files* button to place the Start.aspx file on

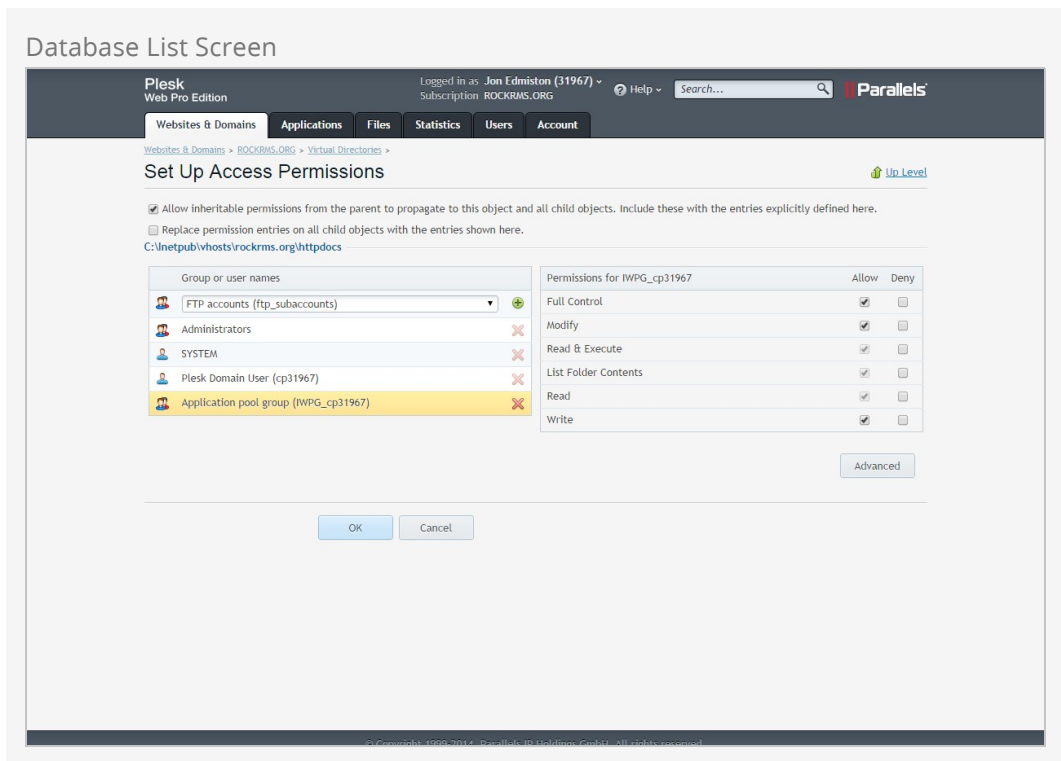
the server.



Setting Permissions

The last step is to set permissions on the website to allow Rock to write files. To do this follow the steps below:

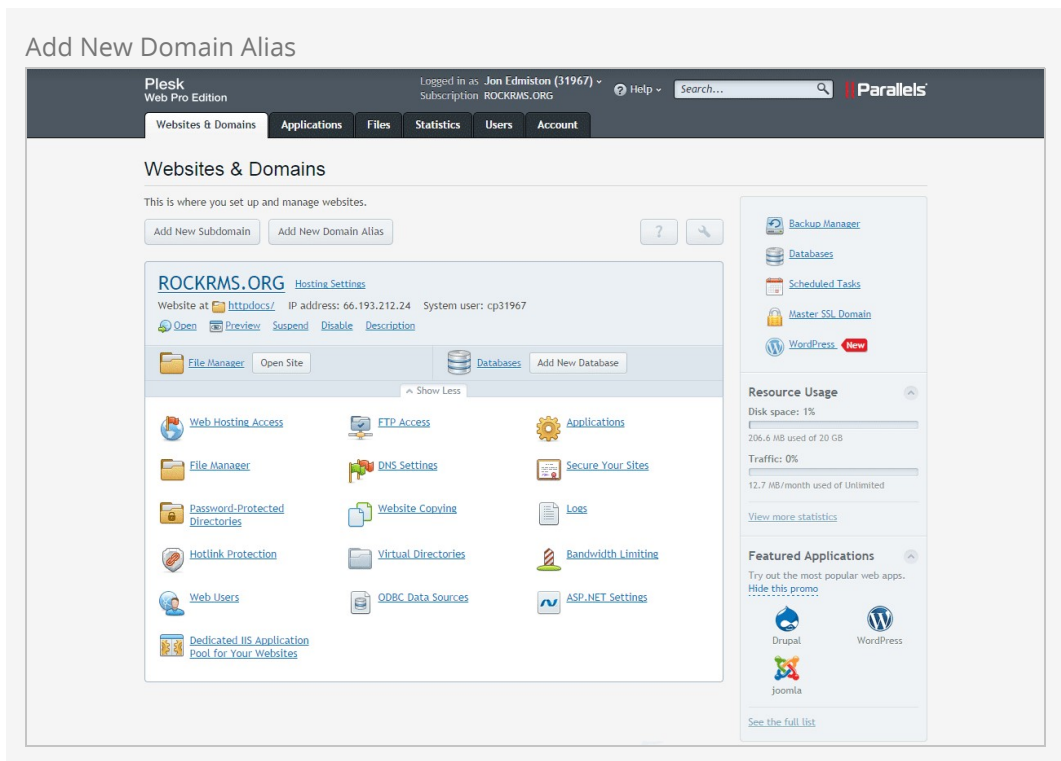
1. Select the *Virtual Directories* option from the website panel homepage.
2. Next, click the *Directory Access Permissions* button.
3. From the next screen select the *Application pool group*
4. Enable 'Full Control', 'Modify' and 'Write' permissions for this group. Your settings should look like the screen below.



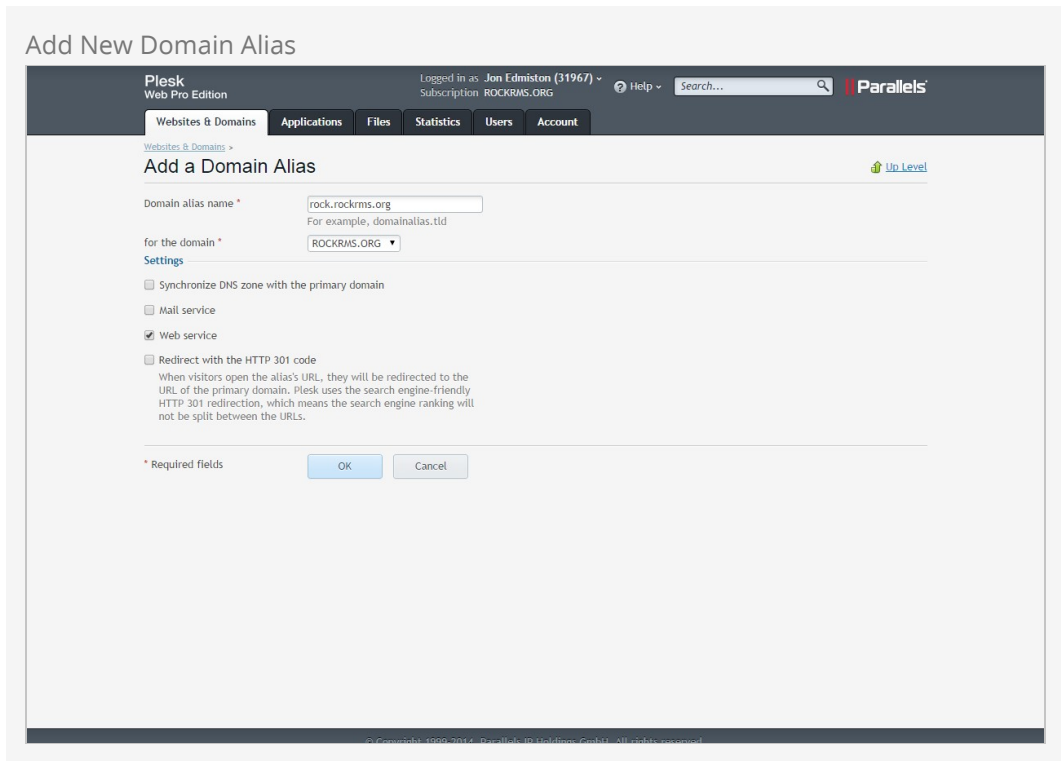
DNS Configuration

3 Essentials does not provide a temporary URL for accessing your website via the browser. You will need to ensure your DNS is set correctly before you can access the site. The steps for DNS configuration is highly dependent on your DNS provider and the names you want to use for Rock. The basic steps are discussed below.

From the control panel homepage select the *Add New Domain Alias* button at the top of the screen.



Next you'll see the *Add a Domain Alias* screen shown below. Simply provide your alias name and then enable only the *Web Service*. When complete click the **OK** button.



Once you've made this change you'll need to point the alias you defined to the IP address that 3 Essentials provided to you. (This IP address is listed on the control panel homepage). If you run into trouble 3 Essentials technical support can help you get up and running.

Ready to Install!

Now that our foundation is set, we can get the Rock installer going. Open up a web browser and go to `http://"yourdomain.com"/Start.aspx`. Head over to the chapter

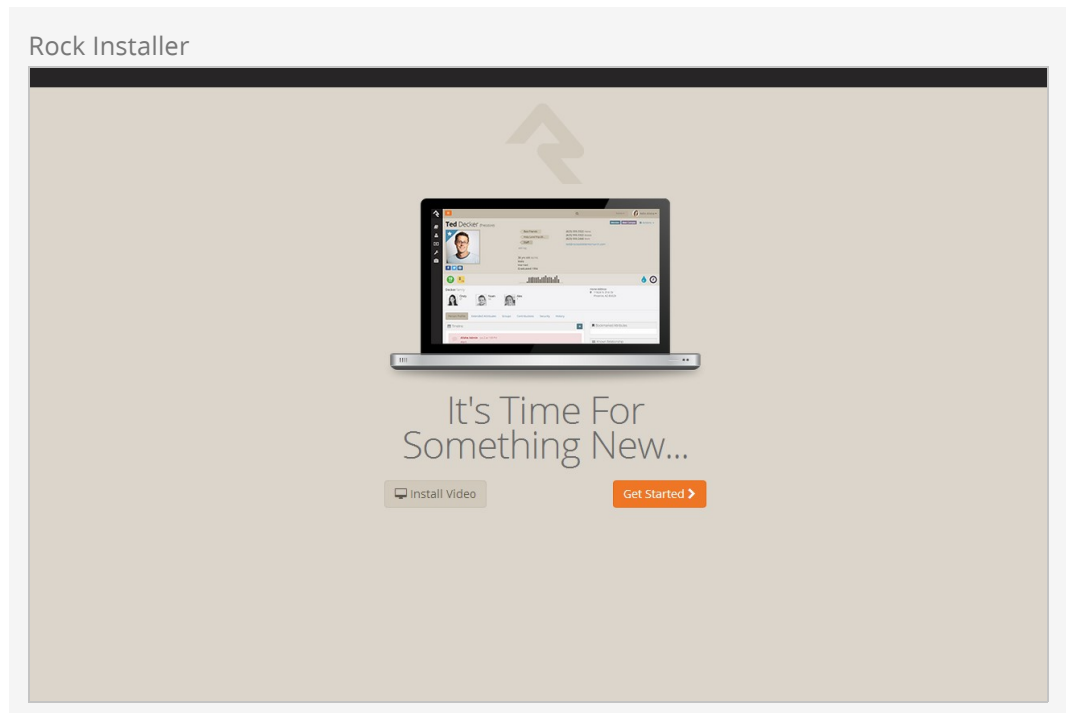
`Installing Rock` for detailed instructions on how to install Rock.

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`.


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 .

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
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!

Your environment passed all tests and looks like a good home for the Rock RMS. What are we waiting for? Let's get started!!!

- ✔ 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 permissions to create it. Rock will create it for you as part of the install.
- ✔ Website is empty.

[< Back](#) [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. 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)

.....

< 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

Public URL Used Externally

Organization Timezone

[← 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 in no way shared with us or anyone else.

Organization Name

Organization Default Email Address

Organization Phone Number

Organization Website

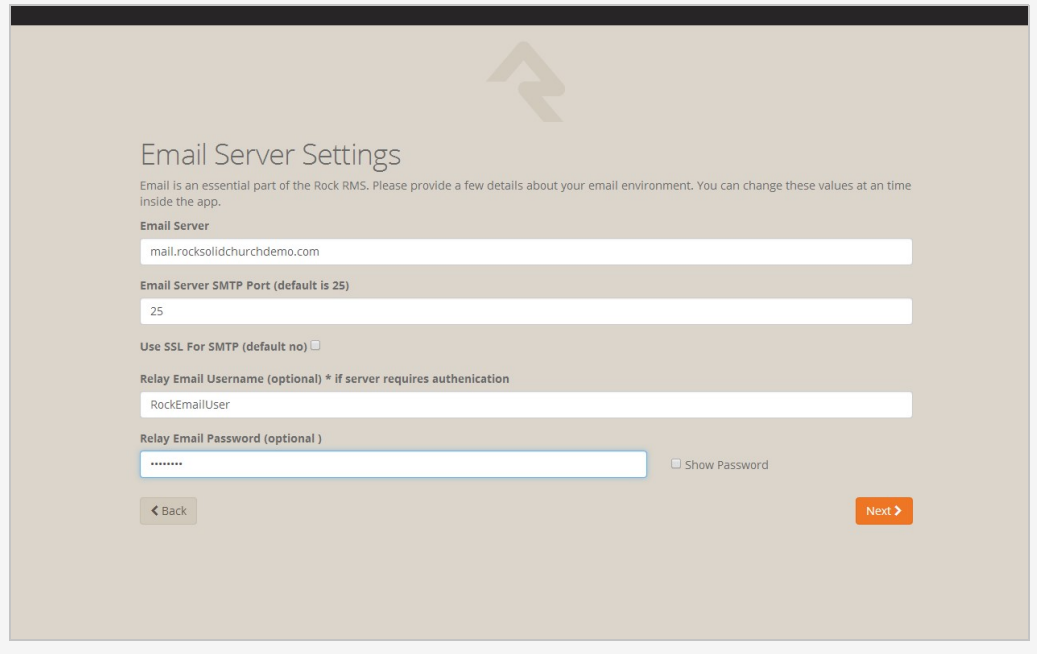
[< Back](#) [Next >](#)

Next, we'll need to add your email server settings. These settings will be used so Rock can send Communication emails to your organization's members. If you don't have a self-hosted email server, there are many services out there that can send email on your behalf. One of these is MailJet www.mailjet.com. If you decide to use a cloud-hosted email solution, speak with their support team to get the required settings you need for Rock.

Tip:
See the [Admin Hero Guide](#) for more on email service settings and using email services.

<http://www.rockrms.com/Rock/Book/9>

Email Settings



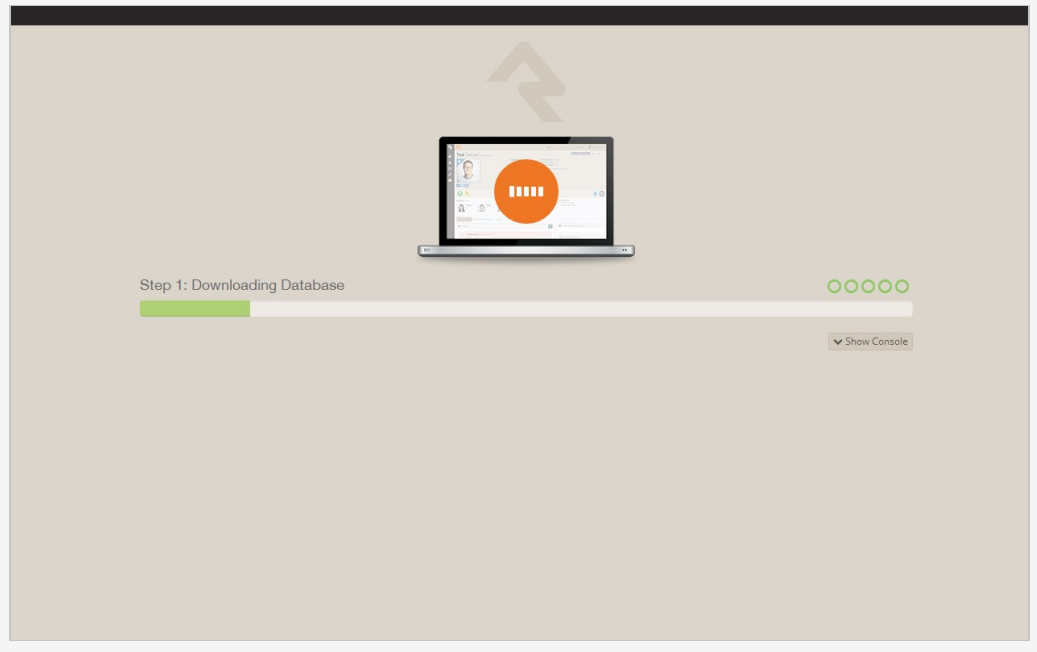
The screenshot shows the 'Email Server Settings' configuration page. At the top, there is a large 'R' logo. Below it, the title 'Email Server Settings' is followed by a brief instruction: 'Email is an essential part of the Rock RMS. Please provide a few details about your email environment. You can change these values at an time inside the app.' The form contains several input fields: 'Email Server' with the value 'mail.rocksolidchurchdemo.com', 'Email Server SMTP Port (default is 25)' with the value '25', a checkbox for 'Use SSL For SMTP (default no)' which is unchecked, 'Relay Email Username (optional) * if server requires authentication' with the value 'RockEmailUser', and 'Relay Email Password (optional)' with a masked password '*****'. A 'Show Password' checkbox is also present and unchecked. At the bottom of the form, there are two buttons: a grey 'Back' button on the left and an orange 'Next' button on the right.

Note:

Your email settings can be updated at any time under [Admin Tools > Communication Settings > Communication Transports > SMTP](#)

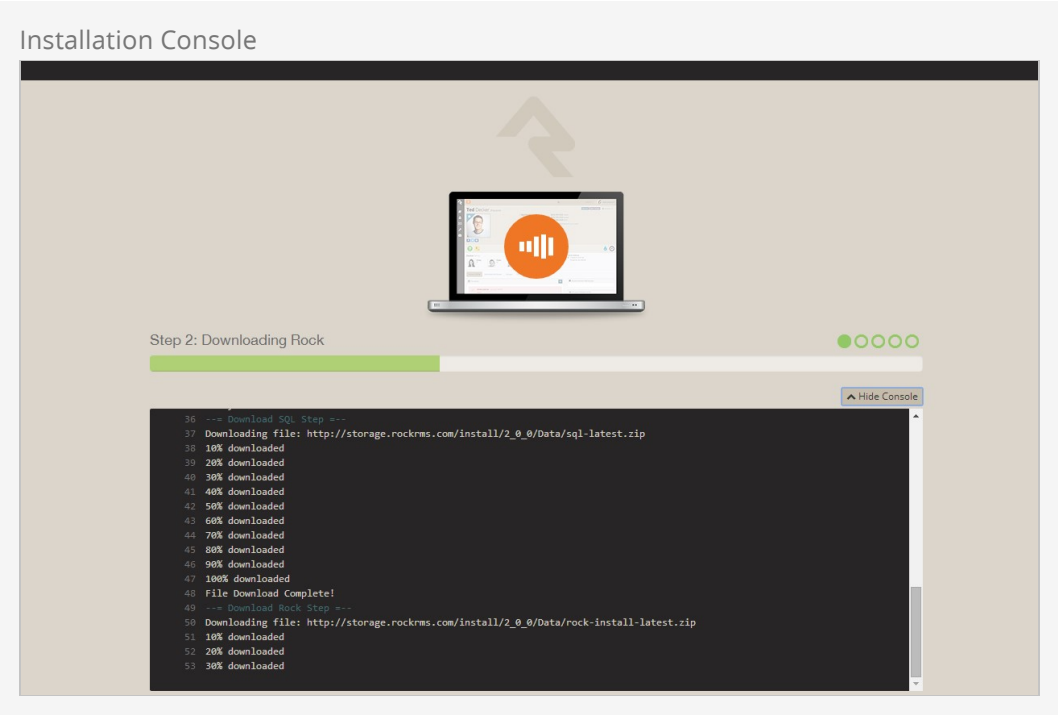
Now that you have all of your organization's information entered into Rock, click [Next](#) to begin the Rock installation.

Installation Progress

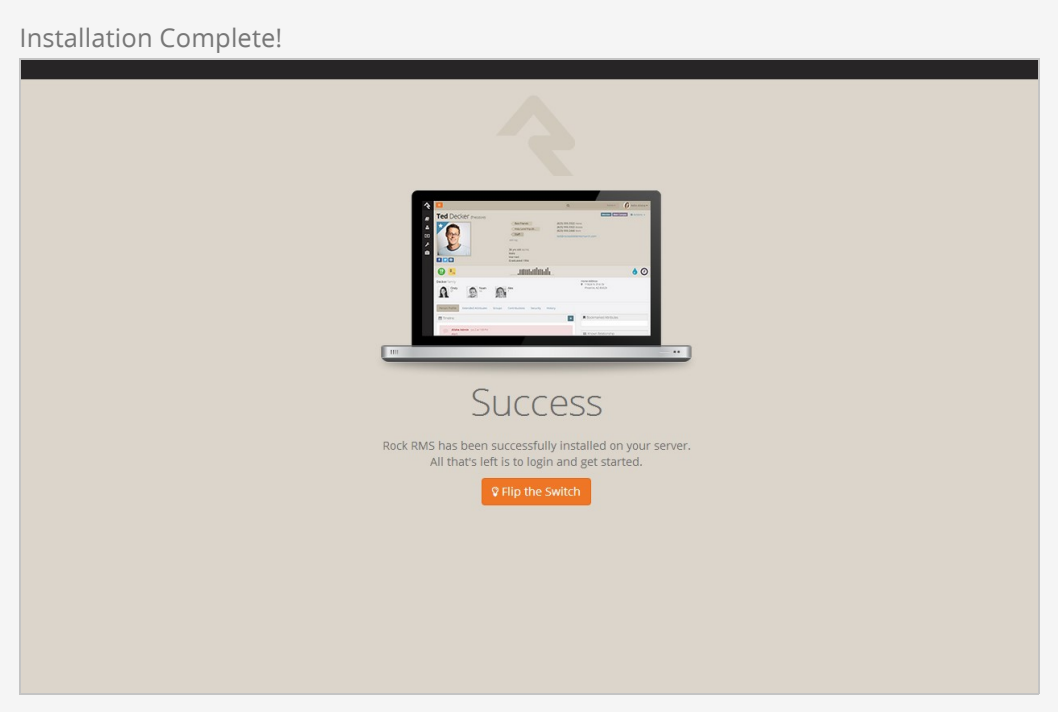


The screenshot shows the 'Installation Progress' screen. At the top, there is a large 'R' logo. In the center, there is an illustration of a laptop displaying a progress bar with five orange circles. Below the laptop, the text 'Step 1: Downloading Database' is displayed. To the right of this text, there is a progress bar with five green circles, indicating that the step is complete. Below the progress bar, there is a 'Show Console' button with a downward arrow icon.

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.

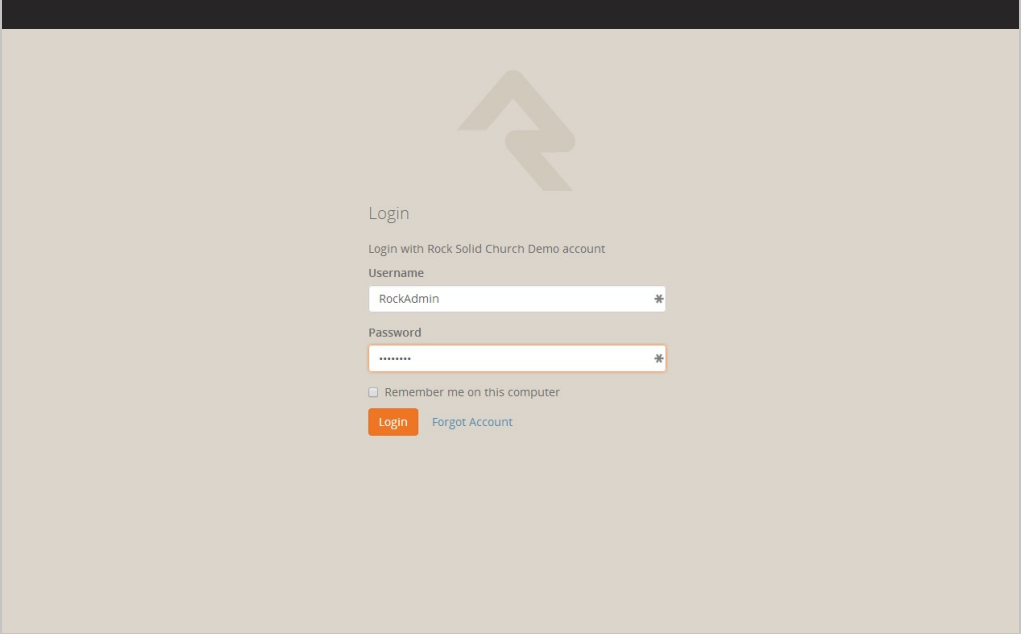


Note

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.

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 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.

Navigation icons: Home, Settings, Profile, Add, Tools, Briefcase

Search:

Name: ▼ Hello Admin: ▼

Administrator Checklist

This checklist contains items for the administrator to complete. Once all items are complete it will disappear until new items are available.

- Update Your Install ▼
- Create Your Account ▼
- Setup Location Service ▼
- Add Organization Address ▼
- Input Google Maps Key ▼
- Update Welcome Message ▼
- Define Person Attributes ▼
- Setup Group Types ▼

Welcome to Rock

Administrators, add your organization's welcome message here.

Crafted by the [Spark Development Network](#) / License

Page Load Time: 0.22s ⊞ ⚙ 👤 📄 🔒 🔍

Migrating to Different Hosts

Migrating Rock to another hosting provider may be daunting, but if you're familiar with FTP and SQL Server Management Studio, the steps are pretty simple. If these terms are foreign to you you may want to enlist the help of a Rock consultant or ask your new hosting company if they offer any transition services. If you're up for it below are the steps.

Move the Existing Database

This involves backing up the database from your old hosting provider and restoring it on the new hosting provider. There are two ways of doing this.

1. Most hosts have a one click export and restore process. If you're unfamiliar with SQL Server Management Studio this is probably your best bet, but you may need some help restoring your database at the new web host. You should definitely talk to the tech support at your new host to ensure that an export from a different server can be imported through their management portal. Often times an export from a different server must be imported for you by one of their tech support representatives (sometimes with an additional cost.)
2. If you're familiar with SQL Server Management Studio you can create a script of your database schema and data. You can do this by right-clicking the database you wish to export and selecting 'Tasks -> Generate Scripts'. From the 'Set Scripting Options' tab be sure to click the 'Advanced' button and change the 'Types of data to script' to 'Schema and data'.

When you go to import your script to the new host you'll need to use the 'sqlcmd' tool as the script will most likely be too large to run from within SQL Server Management Studio. You can use the 'sqlcmd' tool by opening up a Windows command prompt and typing in the following syntax:

```
sqlcmd -S <server> -d <database> -i <input file> -o <output file> -U <user> -P <password>
```

Move the Web Server Files

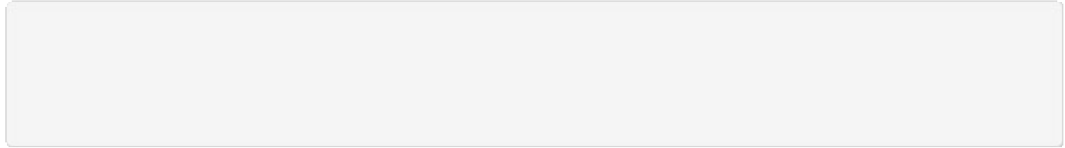
Next, will be to copy the files from your web folder to the web folder of the new hosting provider. This is normally done via FTP.

Web.Config

Once the database and web files have been copied over, the final step involves updating

the web.ConnectionStrings.Config file that is located at the root of the web folder. That way Rock will know where the new database is located at your new host.

Sample web.ConnectionStrings.Config



Note

After the steps above are completed, it would be a good idea to restart your web service and application pool.

Global Attributes

If you are changing the domain during the migration process, you will need to update these global attributes

- Internal Application Root - e.g. <http://rock.rocksolidchurchdemo.org>
- Public Application Root - e.g. <http://www.rocksolidchurchdemo.org>
- Organization Web Site - e.g. www.rocksolidchurchdemo.org