

READYNAS INSTANT STORAGE

Quick Installation Guide





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Step 10

All Done!

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Step

1

Detect ReadyNAS with RAIDar

The ReadyNAS Installation CD contains RAIDar, a utility used for discovering the ReadyNAS device on your network. This is useful in environments where the ReadyNAS obtains a random DHCP IP address.

RAIDar runs on Windows, Mac OS X, and Linux, and takes up approximately 40MB of disk space after installation. Make sure your client system resides on the same network before continuing.

Note

If you have problems running RAIDar under Linux, to discover the IP address of the ReadyNAS, open a terminal session and type **nmblookup -R VOLUME**. Use the returned IP address and specify <http://ipaddr/admin> in your browser window to connect to the FrontView Setup Wizard. You can skip to Step 2.



Installing RAIDar on Windows

Load the CD and double-click on **Setup_Win.exe** to start the installation. Follow the installation wizard to install RAIDar.

Installing RAIDar on Mac OS X

Load the CD and double-click on **Setup_Mac.sit** to start the installation. You will see the RAIDar Installer icon on your desktop. Simply double-click on it and follow the installer instructions to install RAIDar.

Installing RAIDar on Linux

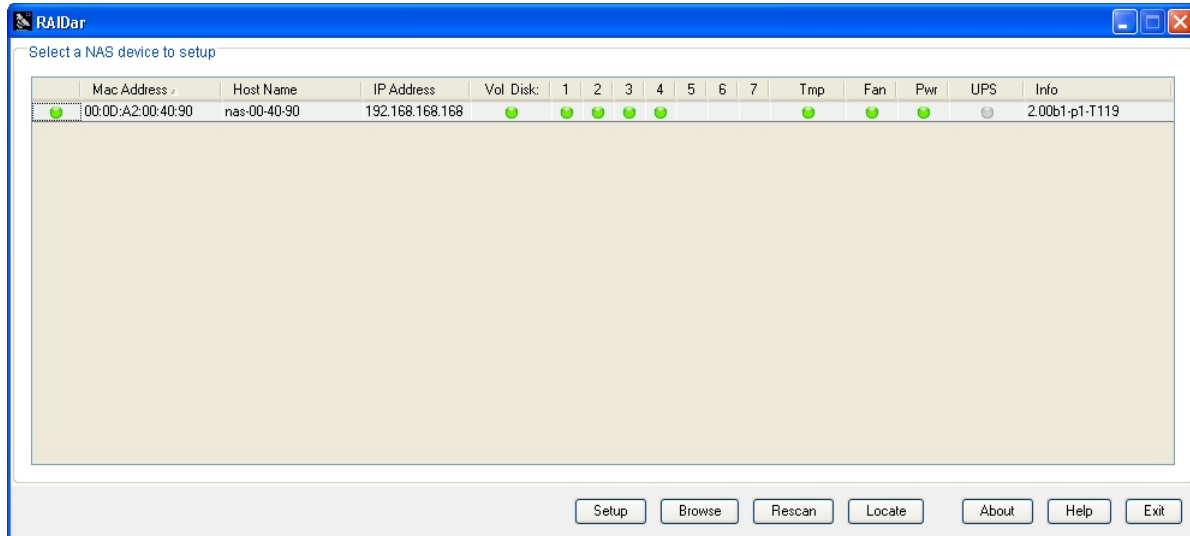
Login as root, load the CD and double-click on **Setup_Linux.sh** to start the installation. Follow the installation wizard to install RAIDar.



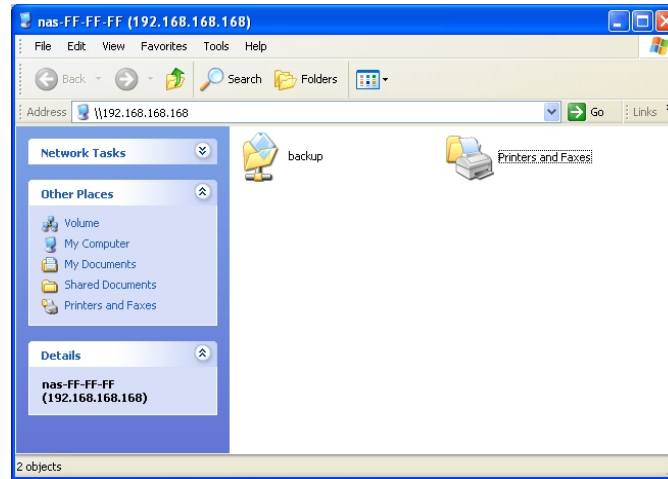
Note

If your client has a static IP address, make sure it is on the same subnet as the ReadyNAS device. You can do this by configuring your client to obtain its IP address via DHCP. Even if your network does not have existing DHCP service, the ReadyNAS device will assure that you will get an IP address.

When you invoke RAIDar, your ReadyNAS device will be detected when the device has successfully booted and has started a network connection. If you have multiple ReadyNAS devices on your network, match the MAC Address of the system to the address listed on the back of your system.



You can select the device and click **Browse** to access the default share called **backup**. The **backup** share can be used as a big repository for your data and backups.



The ReadyNAS configures itself for anonymous guest access unless specified otherwise. Access to the backup share is granted to anyone but this can be changed in the security setup page of the Setup Wizard.

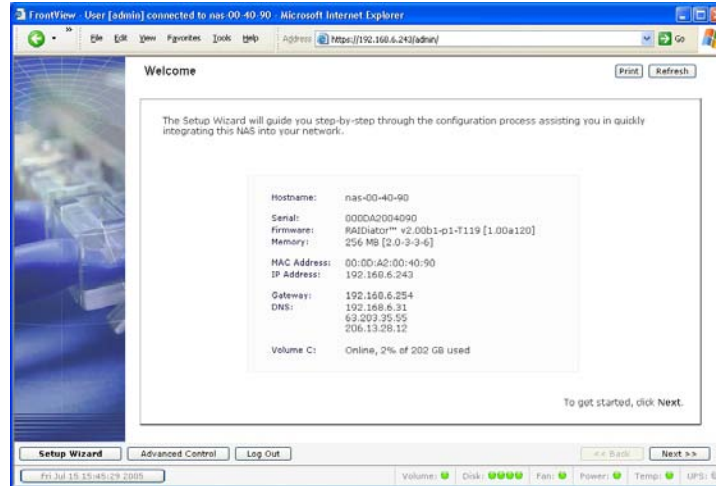
Step 2

Connect to FrontView Setup Wizard

Click **Setup** in RAIDar and you will be prompted to enter the login and password of the administrative user for the Setup Wizard. Use user name **admin** and password **infrant1** to log in.



A successful login will bring up the FrontView Setup Wizard.



Most options in the FrontView Setup Wizard are pre-selected to fit most environments, so the wizard should not take too long to complete. It is highly recommended that you go through this wizard, especially if this is your first ReadyNAS.



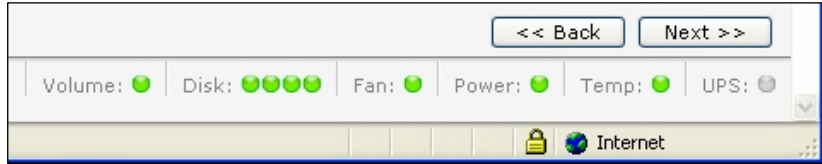
In a typical Setup Wizard process, you will set the clock, configure the networking, select the security mode, create shares, and set up an alert notification contact.

As you traverse through the setup pages, you will notice a familiar theme – a command bar in the upper right corner, navigation and status bar at the bottom, and the menu bar on the left.

The command bar typically provides options to print or email the page, refresh the browser window, and display help where available.



The navigation bar allows you to traverse through the wizard. Clicking **Next** implies that you have accepted the changes in the current window and wish to apply these changes. If an



Apply button exists, you must click on the **Apply** button to save your changes before pressing **Next**. If multiple tabs exist in the menu page, clicking **Next** traverses through the tabs before continuing to the next menu page.

If you wish to log out of FrontView at any time, the **Logout** button will remind you to close all browser windows to securely log out.

The status bar right below the navigation bar provides instant health status of individual devices in the ReadyNAS. Green LED indicates things are working normally and amber indicates a warning or failure condition. Refer to the ReadyNAS User Guide for more information on other LED indications.

The menu bar on the left provides the option to switch between **Setup Wizard** and **Advanced Control** modes. More menus are available once you enter the advanced mode.



Step

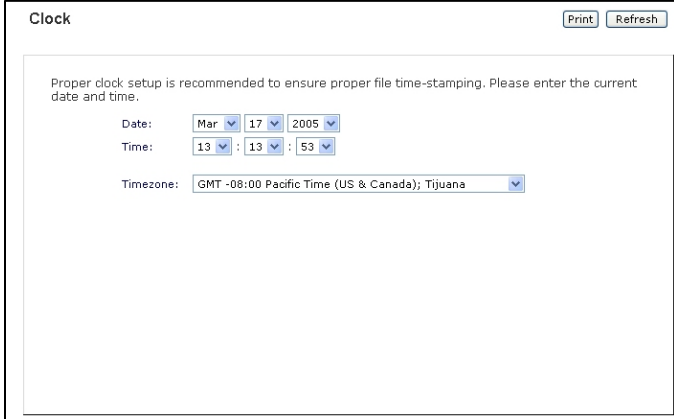
3

Setup Clock

System Time

Clicking the **Next** button in the Welcome page brings up the Clock page. Here, you can set the date, time, and time zone. Set appropriately to ensure files maintain proper timestamp.

Click **Next** to set up networking.



Clock Print Refresh

Proper clock setup is recommended to ensure proper file time-stamping. Please enter the current date and time.

Date:

Time: : :

Timezone:

Step 4

Configure Networking

Ethernet

You can accept the default Ethernet settings if the ReadyNAS is installed in a network environment where DHCP service is used. Otherwise, specify a static address.

If you assign static IP addresses, beware that the browser will lose connection to the ReadyNAS device after the IP address has been changed. If you encounter this, you can click **Rescan** in RAIDar to rediscover the device and reconnect from there.

Click **Next** to display the **DNS** tab.

Network Print Email Refresh

Ethernet | **DNS** | DHCP

Enter the hostname and IP address information for this network interface. If your network utilizes a DHCP server to hand out IP addresses, select the DHCP option for your IP assignment method. Otherwise, enter the IP address, netmask, and gateway values accordingly.

MAC address: 00:0D:A2:00:40:90
Status: ● Online / 100 Mbit / Full-Duplex

Hostname:

IP assignment: Renew now

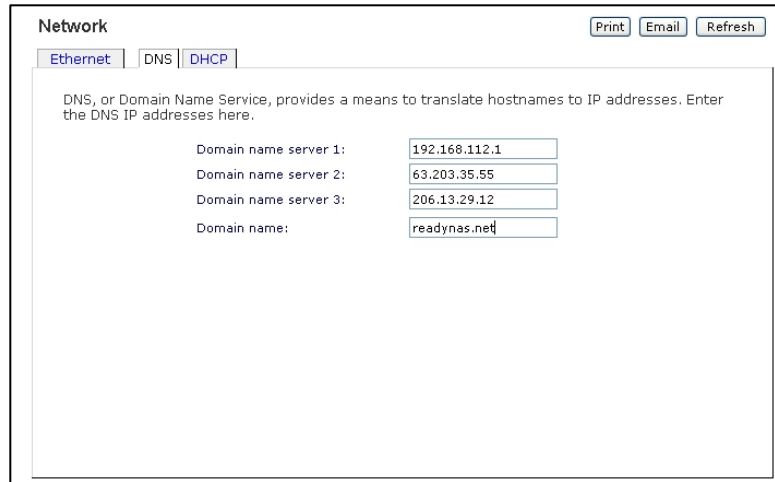
IP address:

Netmask:

Default gateway:

DNS

If you had selected the DHCP option in the Ethernet tab, the domain name server fields will be automatically filled based on the settings from your DHCP server. If you had selected the Static option, you can manually enter the entries here.



The screenshot shows a web interface for network configuration. At the top, there is a 'Network' title and three buttons: 'Print', 'Email', and 'Refresh'. Below the title are three tabs: 'Ethernet', 'DNS', and 'DHCP'. The 'DNS' tab is selected. The main content area contains the following text and form fields:

DNS, or Domain Name Service, provides a means to translate hostnames to IP addresses. Enter the DNS IP addresses here.

Domain name server 1:	<input type="text" value="192.168.112.1"/>
Domain name server 2:	<input type="text" value="63.203.35.55"/>
Domain name server 3:	<input type="text" value="206.13.29.12"/>
Domain name:	<input type="text" value="readynas.net"/>

Click **Next** to display the **DHCP** tab.

DHCP

The DHCP tab allows this device to act as a DHCP server. This is convenient in networks where DHCP service is not available, automating the task of assigning IP addresses to new clients.

The DHCP option is available only if this device is not already using a DHCP address. Enabling DHCP service on a network already utilizing a DHCP server will introduce conflicts. If you wish to use this device as a DHCP server, make sure to specify static addresses in the Ethernet and DNS tabs.

Network Print Email Refresh

[Ethernet](#) | [DNS](#) | [DHCP](#)

DHCP, or Dynamic Host Configuration Protocol, service provides a way for individual computers on the IP network to automatically obtain an IP address along with other network parameters to help reduce network administration.

Enable DHCP service.

Starting IP Address: 192.168.6.

Ending IP Address: 192.168.6.

Lease Time (min):

Click **Next** to configure the ReadyNAS security.

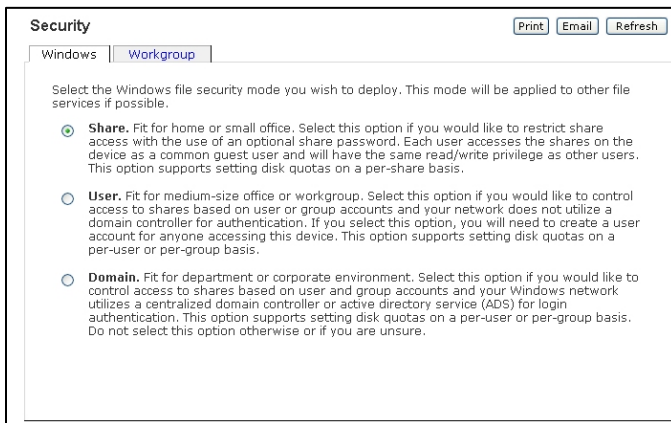
Step 5

Select Security Level

Windows

Next, you need to select the Windows security mode that's appropriate for your environment. Other services will model the security after your Windows security mode settings. The default **Share** mode is appropriate for the smaller environments where everyone on the network will be using this device as a big repository for shared data. Shares in this mode can be protected with a password.

The other options are more appropriate for a larger office or corporate environment and are covered in the **User Guide**.

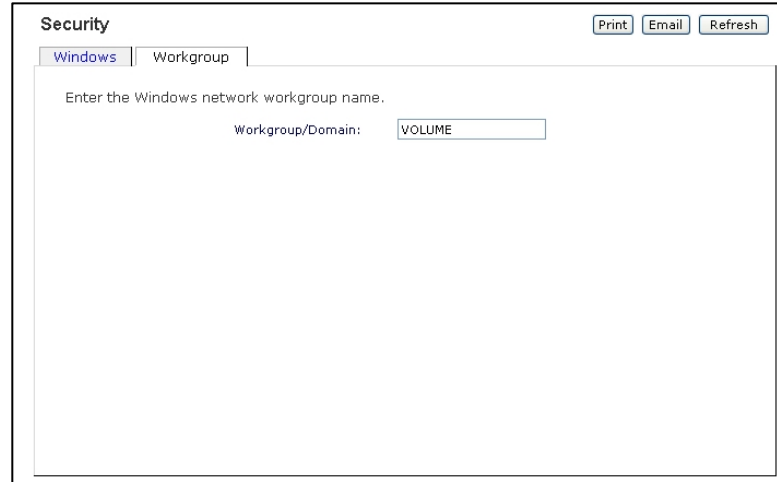


The screenshot shows a window titled "Security" with buttons for "Print", "Email", and "Refresh". Below the title bar, there are two tabs: "Windows" and "Workgroup", with "Workgroup" being the active tab. The main content area contains the following text: "Select the Windows file security mode you wish to deploy. This mode will be applied to other file services if possible." Below this text are three radio button options:

- Share.** Fit for home or small office. Select this option if you would like to restrict share access with the use of an optional share password. Each user accesses the shares on the device as a common guest user and will have the same read/write privilege as other users. This option supports setting disk quotas on a per-share basis.
- User.** Fit for medium-size office or workgroup. Select this option if you would like to control access to shares based on user or group accounts and your network does not utilize a domain controller for authentication. If you select this option, you will need to create a user account for anyone accessing this device. This option supports setting disk quotas on a per-user or per-group basis.
- Domain.** Fit for department or corporate environment. Select this option if you would like to control access to shares based on user and group accounts and your Windows network utilizes a centralized domain controller or active directory service (ADS) for login authentication. This option supports setting disk quotas on a per-user or per-group basis. Do not select this option otherwise or if you are unsure.

Workgroup

Click **Next** and you will be prompted to enter the workgroup name. Enter a workgroup name of up to 15 characters. You can elect to keep the default name.



The screenshot shows a dialog box titled "Security" with a tabbed interface. The "Workgroup" tab is selected. The dialog contains the text "Enter the Windows network workgroup name." and a label "Workgroup/Domain:" followed by a text input field containing the word "VOLUME". In the top right corner, there are three buttons: "Print", "Email", and "Refresh".

Click **Next** to configure file sharing.

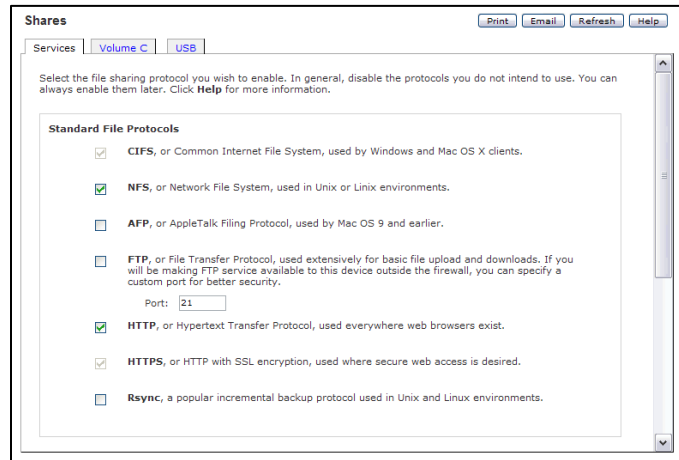
Step 6


Setup File Sharing

Services

After selecting the security model, you can create shares. A share is simply a network folder on the ReadyNAS that clients communicating in various file access protocols from different operating systems can access.

You'll first need to select the file protocols you wish to enable in the Services tab. CIFS for Windows clients, NFS for Unix/Linux, AFP for Macs, HTTP for browser, and FTP for anonymous file uploads and downloads.





For our example, we'll enable all services to show how shares will be accessed using each protocol. For your environment, only enable the services you plan to use. CIFS and HTTPS cannot be disabled.

When you click **Next**, you are presented with the share list for Volume C. Volume C is the initial volume pre-configured on the ReadyNAS.

Note

The default volume configuration is a redundant RAID level setting that provides the best capacity. A two-disk configuration is configured as a RAID level 1 volume. A three or more disk configuration is configured as a RAID level 5 volume. With these settings, in case a disk fails, the ReadyNAS device will continue to function in degraded mode until the failed disk is replaced.

Share List

The Share List tab lists the shares currently available on the ReadyNAS. As an example, the share, **backup**, has been pre-configured with default access.

You'll notice share icons representing the access privilege for each file access protocol. You can hover the mouse pointer over the access icons to get a quick glimpse of the access settings.

If more advanced access control is desired, click on an icon to manage the share access options.



The screenshot shows the 'Shares' management interface. At the top, there are tabs for 'Services', 'Volume C', and 'USB'. Below this, a status bar indicates 'Disk space: 37 MB of 202 GB used (0%)' and 'Additional 10 GB reserved for snapshots'. The 'Share List' tab is active, showing a table of shares. A tooltip is displayed over the 'backup' share, listing five access control options: Disabled, Read-only Access, Read/Write Access, Read Access with exceptions, and Write Access with exceptions.

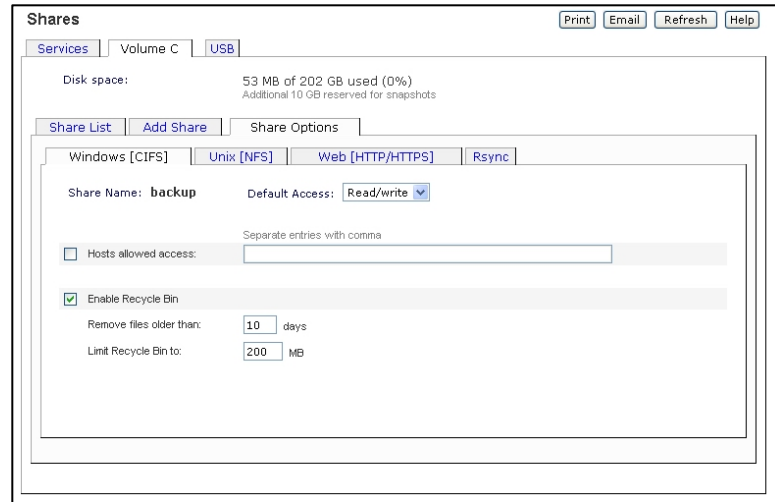
Share Name	Description	Password	Disk Used	Quota (MB)	Win	Unix	Web	Rsync	Delete
backup	Backup Share		4 MB	0					<input type="checkbox"/>
media	Media Server Share		0 MB	0					<input type="checkbox"/>

- Disabled
- Read-only Access
- Read/Write Access
- Read Access with exceptions
- Write Access with exceptions

Share Options

In the **Share Options** tab, you can list hosts you wish to limit share access to. When you specify a host in the allow list, no other hosts will be able to access the share using the selected file protocol. Hosts can be listed as IP addresses or valid DNS names separated by commas.

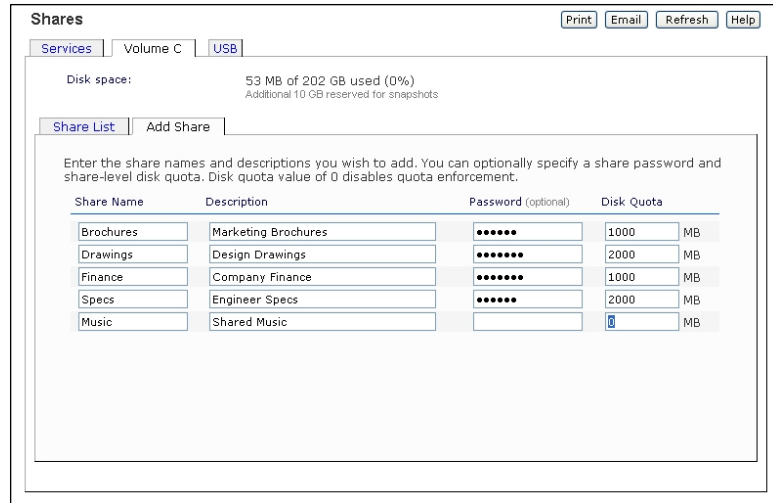
For more information on share access setup, please refer to the **User Guide**.



The screenshot displays the 'Shares' configuration window. At the top, there are buttons for 'Print', 'Email', 'Refresh', and 'Help'. Below these, the 'Services' tab is active, showing 'Volume C' and 'USB'. The 'Disk space' section indicates '53 MB of 202 GB used (0%)' and 'Additional 10 GB reserved for snapshots'. The 'Share Options' tab is selected, showing the 'Share Name' as 'backup' and 'Default Access' as 'Read/write'. There are tabs for 'Share List', 'Add Share', and 'Share Options'. Under 'Share Options', there are tabs for 'Windows [CIFS]', 'Unix [NFS]', 'Web [HTTP/HTTPS]', and 'Rsync'. The 'Hosts allowed access' section has an unchecked checkbox and an empty text input field. The 'Enable Recycle Bin' section is checked, with 'Remove files older than' set to '10' days and 'Limit Recycle Bin to' set to '200' MB.

Add Share

To add more shares, click on the **Add Share** tab. You can enter up to five share names with share descriptions. In the **Share** security mode, you can optionally assign a share password and disk quota. The disk quota feature allows you to limit disk usage on a share-by-share basis.



The screenshot shows the 'Shares' configuration window for Volume C: (USB). It includes a 'Share List' tab and an 'Add Share' button. Below the instructions, there is a table with the following data:

Share Name	Description	Password (optional)	Disk Quota
Brochures	Marketing Brochures	••••••	1000 MB
Drawings	Design Drawings	••••••	2000 MB
Finance	Company Finance	••••••	1000 MB
Specs	Engineer Specs	••••••	2000 MB
Music	Shared Music		0 MB

In the figure above, five shares are being added, with a password and disk quota specified for the first four shares.

When you are done adding shares, click **Next** to setup USB devices.

Step 7

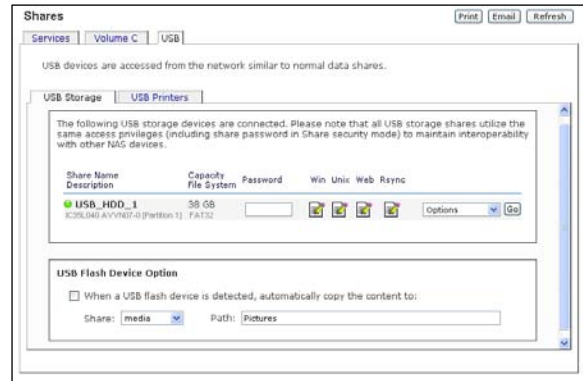
Setup USB Storage

USB Disk Shares are Automatic

USB disks are automatically detected and made available as shares that can be accessed just like any other data shares from the ReadyNAS. If you have a USB disk that you would like to connect to the ReadyNAS, you can do so now. Wait a few seconds after connection, and click **Refresh**. The disk should appear in the USB storage share list.

For convenience, contents of USB flash devices can be copied automatically to a pre-defined share by enabling the option in the **USB Flash Device Option** box.

Click **Next** to setup printer shares.



Step

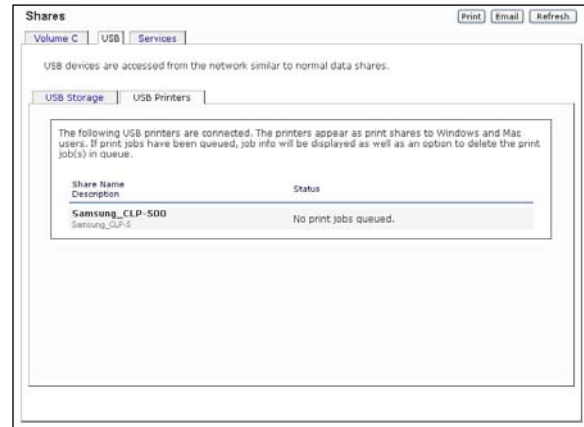
8

Setup USB Print Sharing

Print Shares are Automatic

If you have not already done so, you can connect up to two USB printers to the ReadyNAS now. Wait a few seconds, and click **Refresh** to view it in the USB Printers list. The print share name will automatically reflect the manufacturer and model of your printer. To assign a printer driver to a print share, click **Browse** in RAIDar or simply enter [\\hostname](#) in the Explorer address bar, and double-click the printer icon.

Click **Next** to set up alert contacts.



Step 9

Configure System Settings

Alerts Contacts

In the **Contacts** tab, enter one or more email addresses you wish to use as the system alert contact. Email alerts are the most effective way for the ReadyNAS device to notify you of various system status, warnings, and fatal system errors.

Use the **Send Test Message** option to verify that alert messaging is working. If you do not receive the test message, check the network gateway and DNS settings. Also, some network firewalls prevent unknown message transfer agents (MTA), such as that used by the ReadyNAS, from working. If this is the case, you will need to specify a remote SMTP

System Print Email Refresh

Alerts | Password

In the event of device or enclosure failure, quota violation, low disk space, and other system events requiring attention, email alerts will be sent.

Enter the alert contact email addresses where alert messages should be sent.


Enter email address(es)

Alert Contact 1:

Alert Contact 2:

Alert Contact 3:

Send Test Message



server in Advanced Control mode when you are done with the Setup Wizard. This method is covered in the ReadyNAS User Guide.

Note

Various email services may filter out the test message and actual email alerts sent by the ReadyNAS. Verify that the test message arrives at the email destination before continuing.

Password

The password tab allows you to change the default password assigned for the **admin** user. You are required to change the password before continuing. Please keep the password in a safe place.

In addition, you will need to specify a password recovery question and the expected answer, along with your email address. This allows you to reset the password on the ReadyNAS in case the password is lost. You can refer to the User Guide for information on how this is done.

System Refresh

Alerts | Password

To change a password you will need to additionally specify a password recovery question, the expected answer, and an email address. In case you forget the admin password, you can reset the password by answering the password recovery question correctly and specifying the email address where the new admin password will be sent. **There is no other way to recover a lost password without setting the device back to factory default.**

New admin password:

Retype admin password:

Password recovery question:

Password recovery answer:

Password recovery email address:

All Done!

At this point, register your ReadyNAS by clicking on **Register Product**. This puts your ReadyNAS into our warranty and support database and allows us to inform you of the latest software enhancements, bug fixes, and security alerts.

Click **Next** to continue with the **FrontView Advanced Control** mode. Advance Control options are documented in the ReadyNAS User Guide.

If you wish, you can now start accessing the shares that you have just created using the Windows Explorer. For instructions on how to access the shares from Windows or other operating systems, refer to the Accessing Shares chapter in the User Guide.





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