

FreeNAS

A Great Choice For A Home Server

Don Arrowsmith, President
Philadelphia Area Computer Society



We'll cover:

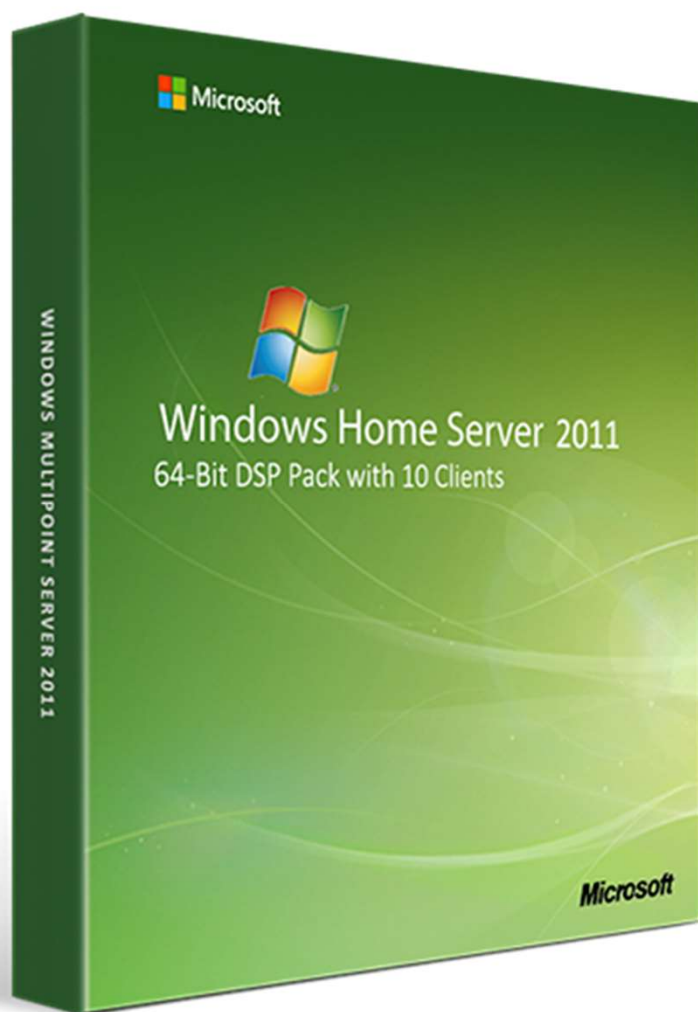
- My home server history
- Features of my current system
- My hardware configuration
- About FreeBSD and FreeNAS
- Obtaining, planning, and installing FreeNAS
- Configuring and controlling FreeNAS
- Sharing files with PCs
- Remote connection via OpenVPN, DDNS
- PC backups
- Media server

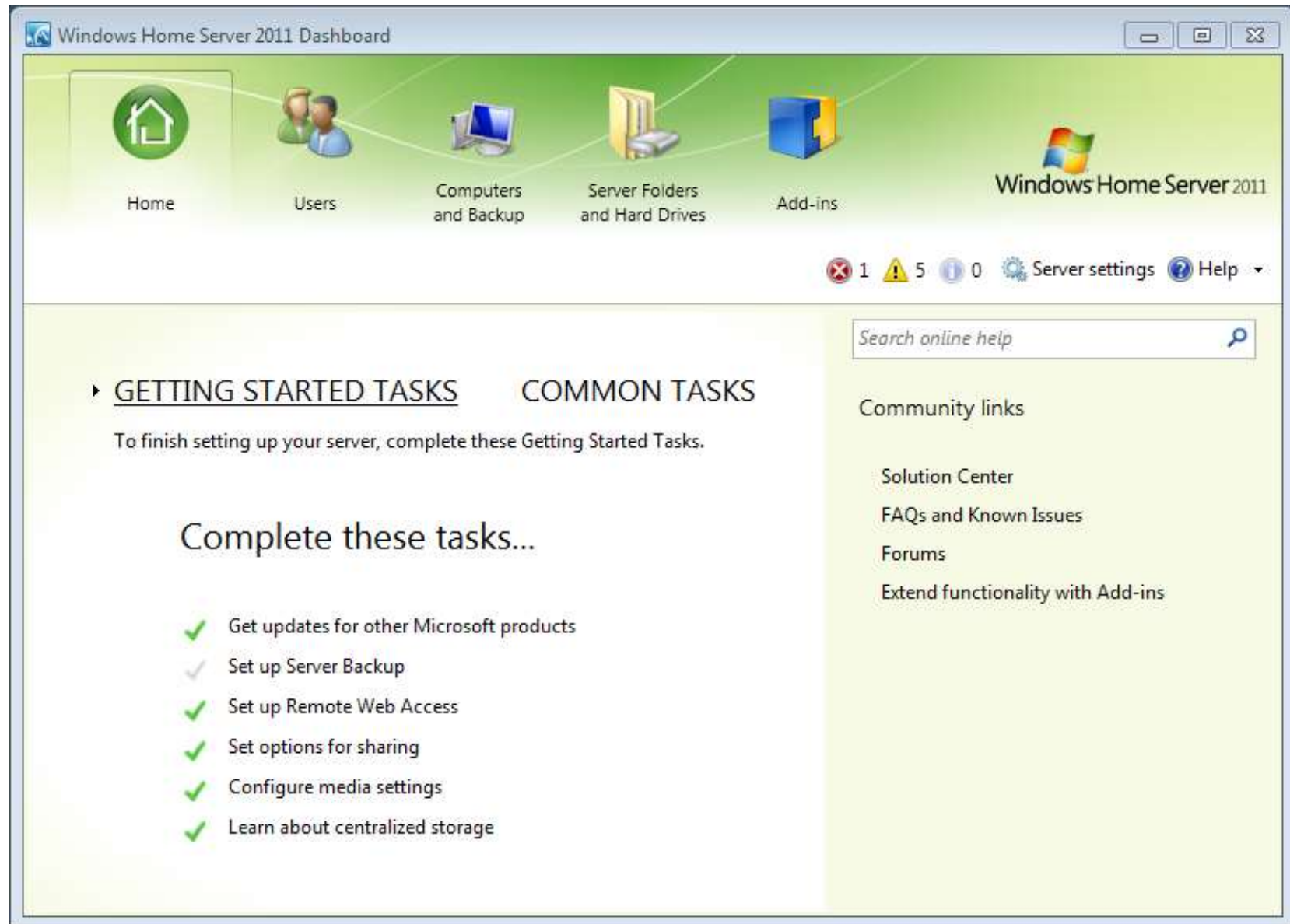


Windows®
Home Server

Microsoft®







Operating System	Windows Home Server 2011
Shared files	Native to WHS2011
Client backups	
Remote access	
Server backups	
File System Addon	Drive Pool & Scanner by StableBit
UPS control	APC Powerchute
DDNS updates	Marc's Updater
Music server	Logitech Media Server

Operating System	FreeNAS 11.3
Shared files	SMB/CIFS is native to FreeNAS
Client backups	Veeam Agent for Windows
Remote access	OpenVPN (via router)
Server backups	Karen's Replicator
UPS control	Network UPS Tools (FreeNAS)
DDNS updates	Via router
Music server	Logitech Media Server

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EVERNOTE

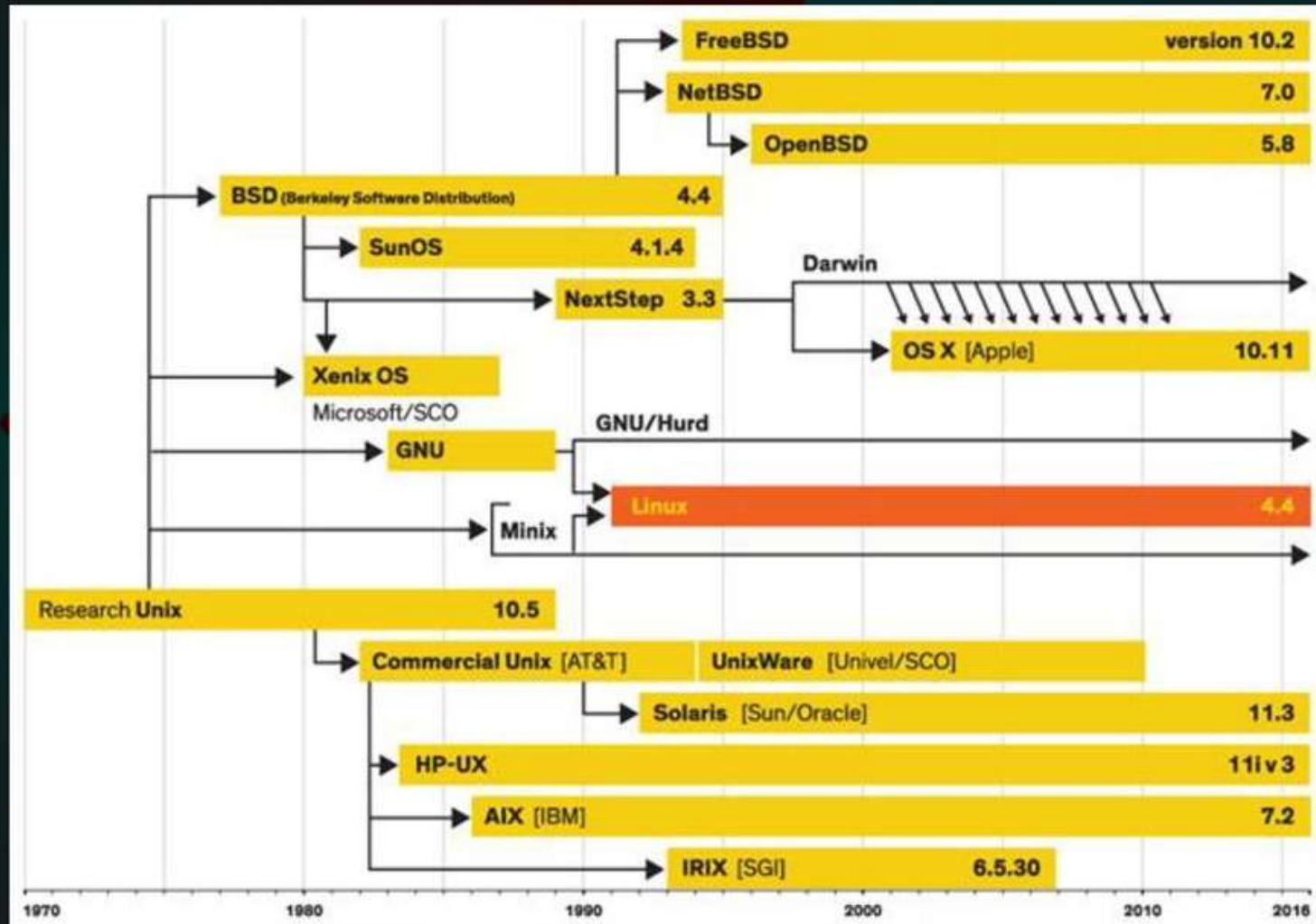
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The FreeBSD Project

FreeBSD is an operating system used to power modern servers, desktops, and embedded [platforms](#). A large [community](#) has continually developed it for more than thirty years. Its advanced networking, security, and storage features have made FreeBSD the platform of choice for many of the [busiest web sites](#) and most pervasive embedded networking and storage devices.

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- » Upcoming: [11.4](#)
- » Upcoming: [12.2](#)
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[New committer: Aleksandr Fedorov \(src\)](#)

2020-03-09
[New committer: Nick O'Brien \(src\)](#)

2020-02-18
[New committer: Lorenzo Salvadore \(ports\)](#)

2020-02-10

UPCOMING EVENTS

2020-04-15 - 2020-04-16
[FreeBSD Office Hours \(Online, Canada\)](#)

2020-06-03 - 2020-06-06
[BSDCan 2020 \(Ottawa, Canada\)](#)

2020-09-17 - 2020-09-20
[EuroBSDcon 2020 \(Vienna, Austria\)](#)

[More Events](#)

PRESS

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[Discussing Past, Present and Future of FreeBSD Project](#)

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2019-08
[Meet FreeBSD Project – A Journey of 26 Years and Beyond](#)

SECURITY ADVISORIES





2020-03-19
[FreeBSD-SA-20:09.ntp](#)

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[FreeBSD-SA-20:08.jail](#)

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[FreeBSD-SA-20:07.epair](#)

2020-03-19
[FreeBSD-SA-20:06.if_ixl_iocli](#)

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 020_WHS2011.png
 015_WHS2011.png
 005_WHS.jpg
 010_WHS.jpg
Show all

Motherboard	ASUS Z170-A
CPU	Intel Core i5-6600 @ 3.30GHz
Memory	24GB non-ECC DDR4 2.133GHz
Boot Disk	Samsung SSD 850 PRO 256GB
Data Disks	4 Western Digital Red+ 2TB WD20EFRX
Disk controller	StarTech 4-Port PCIe SATA III 6GBs
Network	on-board Intel I219-V 1GB Ethernet
Uninterruptible Power Supply	APC Back-UPS RS-900
Router	ASUS RT-AC86U

FreeNAS - cory

Z170-A | Motherboards | ASUS U

+

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asus.com/us/Motherboards/Z170-A/

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ASUS

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Z170-A

Overview

Specifications

Review

Support

ASUS Z170-A LGA1151 DDR4 HDMI DVI SATA 6Gb/s USB 3.1 Type C Z170 ATX Motherboard

- LGA1151 socket for 6th Gen Intel® Core™ Desktop Processors
- 5-Way Optimization for Total System Tuning with 1-click overclocking
- Crystal Sound 3 delivers unmatched sound clarity for immersive gaming audio.
- Intel Gigabit LAN with Turbo LAN for optimized bandwidth
- USB 3.1 Type C & M.2: Ultra-speedy transfer for faster gaming

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EDITOR'S PC CHOICE

✓


✓

✓

✓

APPROVED

APPROVED




The BEST Motherboard Brand

BEYOND VR READY

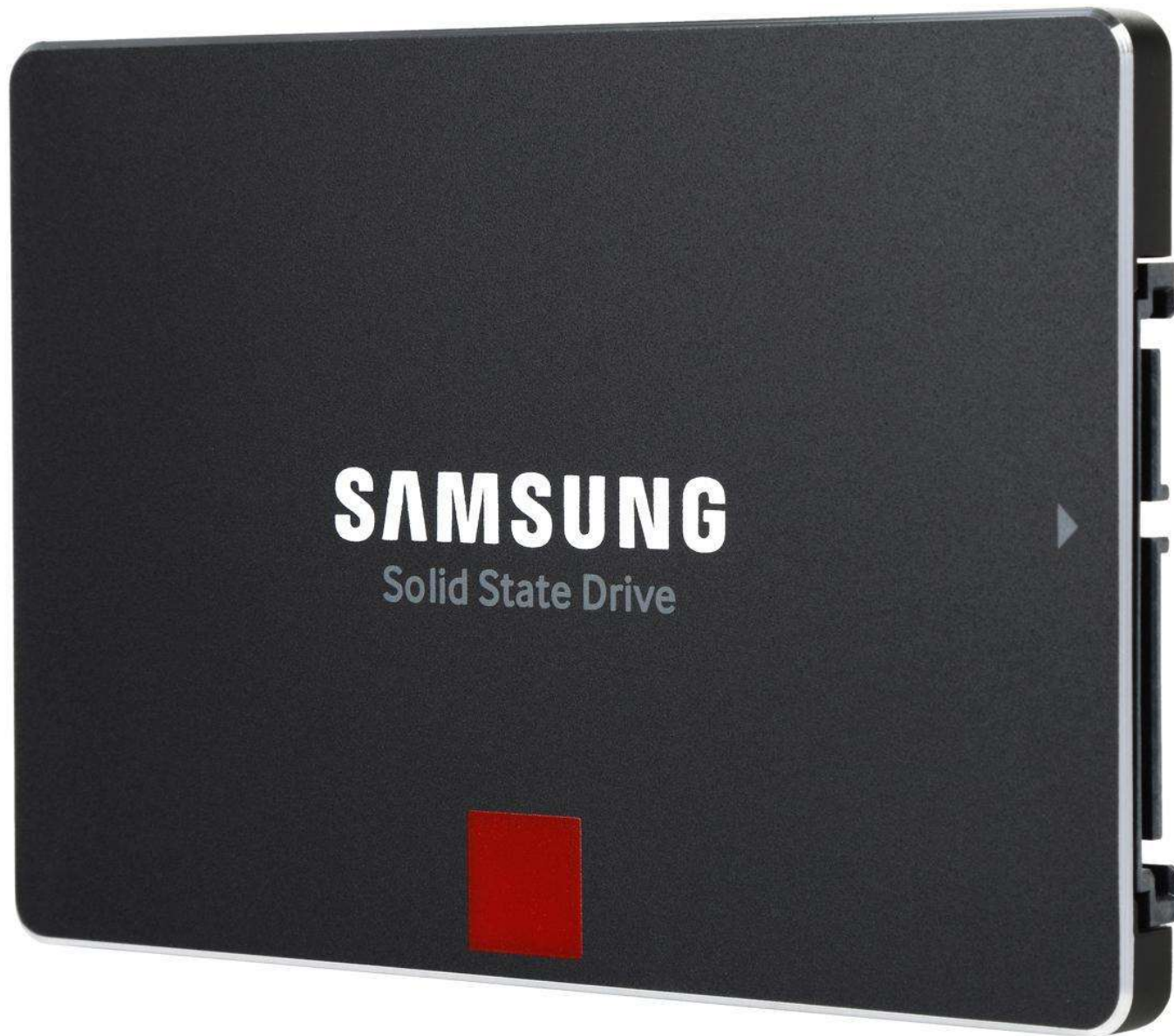
Print

Need Help?

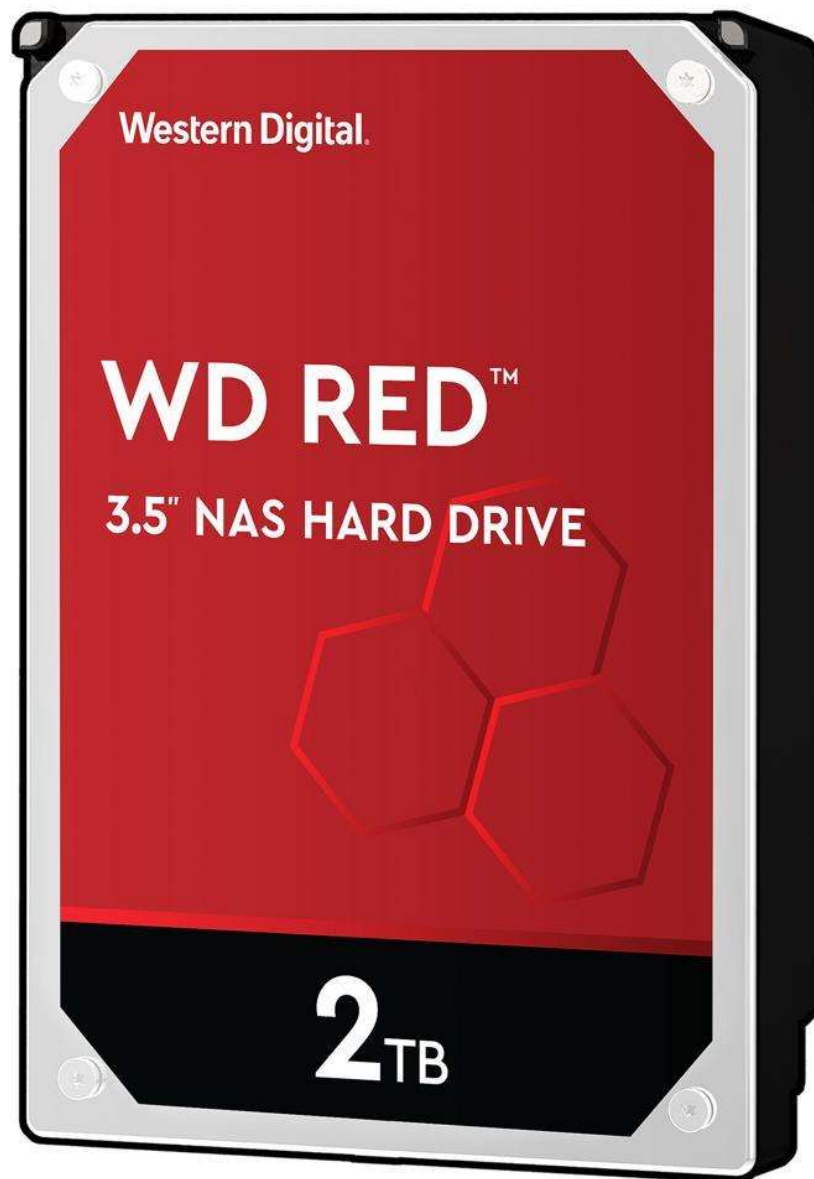








If you buy these disks, make sure you get WD Red Plus (new name) which uses CMR (common magnetic recording) and not WD Red which use SMR (shingled magnetic recording)!





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only during
installation:



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BX1000M

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FreeNAS Storage Operating System

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FreeNAS

ix

root
freenas.local

Dashboard

Accounts

System

Web Interface Preferences

General Preferences

Choose Theme

ix Official

☐ Prefer buttons with icons only

☒ Enable Password Toggle

☒ Enable "Save Configuration" Dialog Before Upgrade

DOWNLOAD

The World's #1 Storage OS
with over 10+ Million Downloads

Enterprise Grade Features, Open Source, BSD Licensed

What is FreeNAS?

What is ZFS?

FreeNAS is an operating system that can be installed on virtually any hardware platform to share

ZFS is an enterprise-ready open source file system, RAID controller, and volume manager with

Logins (logins) Betty Don Janice Save Generate Sync



About

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FreeNAS At Home



FreeNAS is a powerful storage solution that makes it easy to share movies and music, back up your photos, protect your files and much, much more. Make your life easier by using FreeNAS to build and set up the perfect home storage system that does exactly what you need.

Consolidate Files

Too much stuff? There's a simple solution for that. Keep all of your files in one place and access them from any of your devices over your home network. Not only does this free up storage space, it saves time and makes it convenient when you need to transfer things across devices. Simply copy your files to a FreeNAS system and set up the proper protocol to access them. That's it, you're ready to go. FreeNAS supports sharing protocols for all major operating systems including CIFS/SMB (Windows), AFP (Apple), and NFS (Unix).



Stream Movies and Music

FreeNAS makes it easy to stream and share your movies and music with your family on any number of devices. Watch a movie on your TV then finish it on your laptop upstairs. FreeNAS does not restrict the number of users that can access your data. When you have friends over for movie night, set up permissions and groups so authorized users can only access the files you allow them to.

Back Up Everything

With FreeNAS, there are no storage quotas or bandwidth caps. The only limit is your own hardware. Local and remote backups can be made with just a few clicks. Replicate a snapshot to an offsite FreeNAS system to create a complete copy of your file system there. Checksums ensure only error-free data gets written to disk and the self-healing file system can repair silent bitrot as long as a redundant copy of the file exists on the system.




FreeNAS Storage Operating System

FreeNAS® 11.3-U1 User Guide

ixsystems.com/documentation/freenas/11.3-U1/freenas.html

FreeNAS 11.3-U1

FreeNAS® 11.3-U1 User Guide

 FreeNAS™

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1. Introduction

2. Installing and Upgrading

3. Booting

4. Accessing the Web Interface

5. Settings

6. Accounts

7. System

8. Tasks

9. Network

10. Storage

11. Directory Services

12. Sharing

13. Services

14. Plugins

15. Jails

16. Reporting

17. Virtual Machines

18. Display System Processes

19. Shell

20. Log Out, Restart, or Shut Down

Docs »

FreeNAS® 11.3-U1 User Guide

FreeNAS® 11.3-U1 User Guide

- 1. Introduction
 - 1.1. New Features in 11.3
 - 1.1.1. U1
 - 1.2. Path and Name Lengths
 - 1.3. Using the Web Interface
 - 1.3.1. Tables and Columns
 - 1.3.2. Advanced Scheduler
 - 1.3.3. Schedule Calendar
 - 1.3.4. Changing FreeNAS® Settings
 - 1.3.5. Web Interface Troubleshooting
 - 1.3.6. Help Text
 - 1.3.7. Humanized Fields
 - 1.3.8. File Browser
 - 1.4. Hardware Recommendations
 - 1.4.1. RAM
 - 1.4.2. The Operating System Device
 - 1.4.3. Storage Disks and Controllers
 - 1.4.4. Network Interfaces
 - 1.5. Getting Started with ZFS
- 2. Installing and Upgrading
 - 2.1. Getting FreeNAS®
 - 2.1.1. Checking Installer Integrity
 - 2.1.1.1. PGP Verification
 - 2.1.1.2. SHA256 Verification
 - 2.1.2. Preparing the Media
 - 2.2. Preparing the Media

ZFS = 128-bit file system = max of 16 exabytes

1 exabyte =

10^{18} bytes =

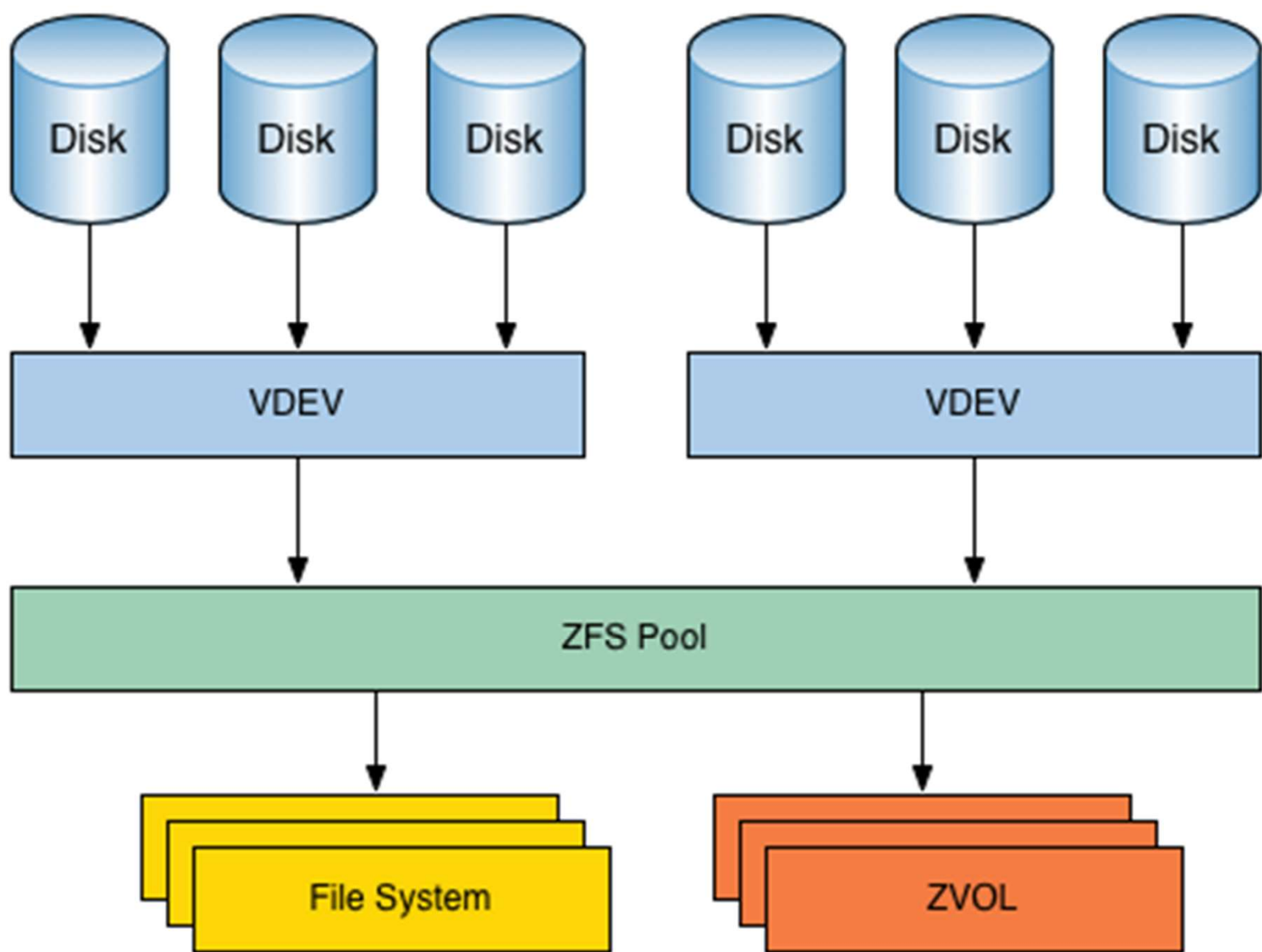
$1,000^6$ bytes =

1,000,000,000,000,000,000 bytes =

1,000 petabytes =

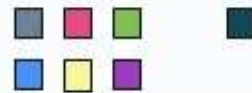
1 million terabytes =

1 billion gigabytes.



Vdev Types

Data Parity



Non-redundant

Single disk



Striped



Redundant

Mirror



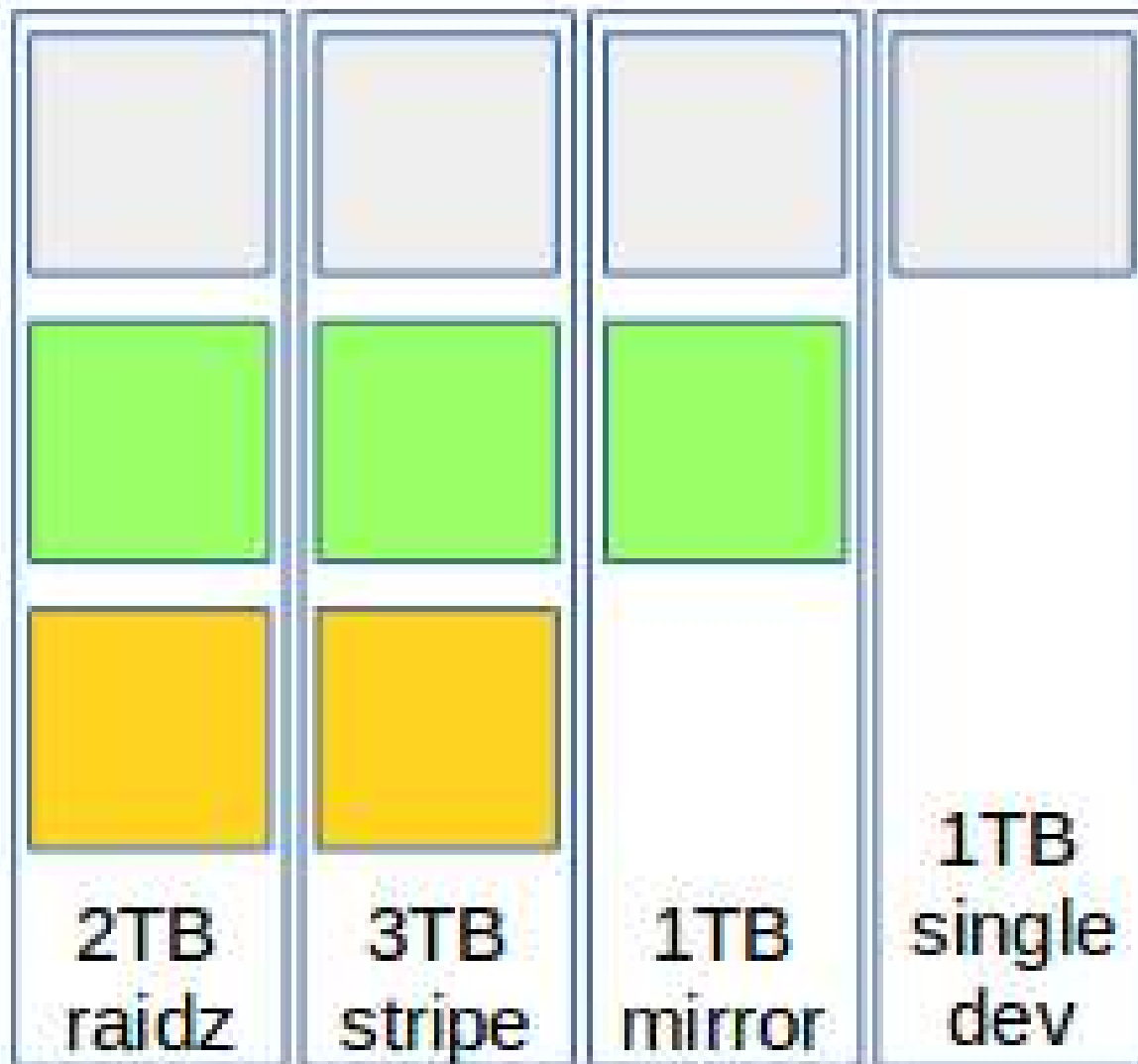
RAIDZ

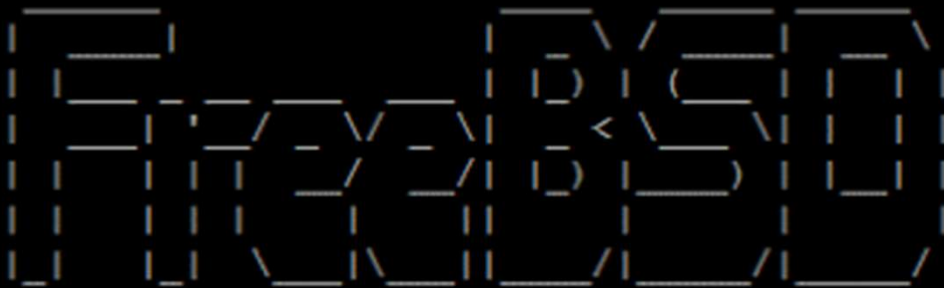


Disk1

Disk2

Disk3





```
+-----Welcome to FreeBSD-----+
|
| 1. Boot Multi User [Enter]
| 2. Boot Single User
| 3. Escape to loader prompt
| 4. Reboot
|
| Options:
| 5. Kernel: default/kernel (1 of 2)
| 6. Configure Boot Options...
|
+-----+
```



FreeNAS 11.3-RC2 Console Setup

- 1 Install/Upgrade
- 2 Shell
- 3 Reboot System
- 4 Shutdown System

< OK >

<Cancel>

-----Choose destination media-----

Select one or more drives where FreeNAS should be installed (use arrow keys to navigate to the drive(s) for installation; select a drive with the spacebar).

[]	ada0	UBOX HARDDISK -- 16.0 GiB
[]	ada1	UBOX HARDDISK -- 20.0 GiB
[]	ada2	UBOX HARDDISK -- 8.0 GiB
[]	ada3	UBOX HARDDISK -- 9.0 GiB
[]	ada4	UBOX HARDDISK -- 11.0 GiB
[]	ada5	UBOX HARDDISK -- 14.0 GiB
[]	ada6	UBOX HARDDISK -- 8.0 GiB
[]	ada7	UBOX HARDDISK -- 10.0 GiB
[]	ada8	UBOX HARDDISK -- 8.0 GiB
[]	ada9	UBOX HARDDISK -- 11.0 GiB

+-----v(+)-----90%-----

< OK > <Cancel>



root
Cory.local

- Dashboard
- Accounts
- System
- Tasks
- Network
- Storage
- Directory Services
- Sharing
- Services
- Plugins
- Jails
- Reporting
- Virtual Machines
- Display System Processes
- Shell

Dashboard



System Information

Overview

Platform: Generic

Version: FreeNAS-11.3-U1

HostName: Cory.local

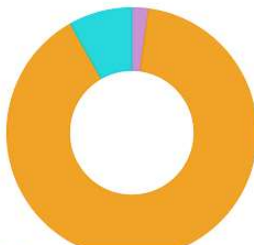
Uptime: 11:26AM up 6 days, 19:30, 0 users

Memory

23.8GiB

total memory installed

- Free: 0.5 GiB
- ZFS Cache: 20.9 GiB
- Services: 1.9 GiB



CPU

Intel(R) Core(TM) i5-6600 CPU @ 3.30GHz

LOAD

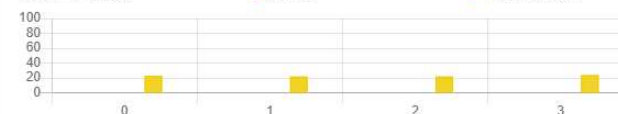
0%

4
Threads

Stats Per Thread

Usage

Temperature



Pool

pool1

ONLINE ✓

Overview

Path: /mnt/pool1

Available Space: 4.09TiB (19% used)

Data: 1 vdev

Caches: 0

Spares: 0

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```



🔒 root
Cory.local

- 🏠 Dashboard
- 👤 Accounts ▾
- 💻 System ▴
- General
- NTP Servers
- Boot
- Advanced
- Email
- System Dataset
- Reporting
- Alert Services
- Alert Settings
- Cloud Credentials
- SSH Connections
- SSH Keys

NTP Servers

🔍 Filter NTP Servers

COLUMNS ▾

ADD

Address	Burst	IBurst	Prefer	Min. Poll	Max. Poll	
0.freebsd.pool.ntp.org	no	yes	no	6	10	⋮
1.freebsd.pool.ntp.org	no	yes	no	6	10	⋮
2.freebsd.pool.ntp.org	no	yes	no	6	10	⋮
1 - 3 of 3						

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
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- root
Cory.local
- Dashboard
 - Accounts
 - System
 - General
 - NTP Servers
 - Boot
 - Advanced
 - Email
 - System Dataset
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 - Alert Services
 - Alert Settings
 - Cloud Credentials
 - SSH Connections
 - SSH Keypairs

System / Boot

Boot Environments

Filter Boot Environments

COLUMNS ACTIONS

<input type="checkbox"/>	Name	Active	Created	Space	Keep	
<input type="checkbox"/>	default	-	12/16/2019 10:02 AM	3.37 MiB		⋮
<input type="checkbox"/>	Initial-Install	-	12/16/2019 10:11 AM	2.90 MiB		⋮
<input type="checkbox"/>	11.2-U7	-	12/16/2019 10:14 AM	1.01 GiB	no	⋮
<input type="checkbox"/>	11.2-U8	-	3/4/2020 10:55 AM	1.01 GiB	no	⋮
	11.3-U1	Now/Reboot	3/30/2020 11:52 AM	1.33 GiB	no	⋮

1 - 5 of 5

Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;



root
Cory.local

- Dashboard
- Accounts
- System
- General
- NTP Servers
- Boot
- Advanced
- Email
- System Dataset
- Reporting
- Alert Services
- Alert Settings
- Cloud Credentials
- SSH Connections
- SSH Keys

System / Alert Services

Alert Services


🔍 Filter Alert Services

COLUMNS ADD

Service Name	Type	Level	Enabled	
E-Mail	Mail	WARNING	yes	⋮
SNMP Trap	SNMPTrap	WARNING	yes	⋮

1 - 2 of 2

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```

-  [Tasks](#) [▲](#)
- [Cron Jobs](#)
- [Init/Shutdown Scripts](#)
- [Rsync Tasks](#)
- [S.M.A.R.T. Tests](#)
- [Periodic Snapshot Tasks](#)
- [Replication Tasks](#)
- [Resilver Priority](#)
- [Scrub Tasks](#)
- [Cloud Sync Tasks](#)
- [👤 Network](#) [▼](#)
- [☰ Storage](#) [▼](#)
- [⚙️ Directory Services](#) [▼](#)
- [📁 Sharing](#) [▼](#)
- [⚙️ Services](#)
- [🔌 Plugins](#)
- [🖥 Jails](#)
- [📊 Reporting](#)

Tasks / Periodic Snapshot Tasks

Periodic Snapshot Tasks

[🔍](#)

[COLUMNS](#) [ADD](#)

Pool/Dataset	Recursive	Naming Schema	Enabled	State	Keep snapshot for	
pool1/ClickArt	yes	auto-%Y-%m-%d_%H-%M	yes	FINISHED	1 YEAR(S)	▶
pool1/Music	yes	auto-%Y-%m-%d_%H-%M	yes	FINISHED	1 YEAR(S)	▶
pool1/Users	yes	auto-%Y-%m-%d_%H-%M	yes	FINISHED	1 YEAR(S)	▶
1 - 3 of 3						

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```

Network Summary

Name	IPv4 Address	IPv6 Address
em0	192.168.15.116/24	2001:0db8:0000:0000:0000:0000:0000:0000

Default Routes

📶 192.168.15.1

📶 2001:0db8:0000:0000:0000:0000:0000:0000

Nameservers

📶 192.168.15.5

📶 192.168.15.1

📶 2001:0db8:0000:0000:0000:0000:0000:0000

📶 2001:0db8:0000:0000:0000:0000:0000:0000

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
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🔒 root
Cory.local

- 🏠 Dashboard
- 👤 Accounts
- 🖨 System
- 📅 Tasks
- 🌐 Network
- 📁 Storage
- 🌊 Pools
- 📷 Snapshots
- 💾 VMware-Snapshots
- 💿 Disks
- 📥 Import Disk
- 👤 Directory Services
- 📁 Sharing
- ⚙️ Services
- 🔌 Plugins

Pools

ADD

pool1 ✅ HEALTHY: 1.01 TiB (20%) Used / 4.09 TiB Free

Name	Type	Used	Available	Compression	Compression Ratio	Readonly	Dedup	Comments	
pool1	dataset	1.01 TiB	4.09 TiB	lz4	1.02x	false	off		⋮
Backups	dataset	768.72 GiB	4.09 TiB	Inherits (lz4)	1.00x	false	off	Client computer backups	⋮
ClickArt	dataset	9.56 GiB	4.09 TiB	Inherits (lz4)	1.19x	false	off	ClickArt	⋮
Music	dataset	40.56 GiB	4.09 TiB	Inherits (lz4)	1.02x	false	off	Music files	⋮
Users	dataset	212.47 GiB	4.09 TiB	Inherits (lz4)	1.05x	false	off	User data files	⋮
locage	dataset	3.05 GiB	4.09 TiB	lz4	1.56x	false	off		⋮
download	dataset	262.64 MiB	4.09 TiB	lz4	1.00x	false	off		⋮
images	dataset	127.88 KiB	4.09 TiB	lz4	1.00x	false	off		⋮
jails	dataset	2 GiB	4.09 TiB	lz4	1.43x	false	off		⋮
LMS-Cory	dataset	2 GiB	4.09 TiB	Inherits (lz4)	1.43x	false	off		⋮
root	dataset	2 GiB	4.09 TiB	Inherits (lz4)	1.43x	false	off		⋮
log	dataset	139.5 KiB	4.09 TiB	lz4	1.25x	false	off		⋮
releases	dataset	810.33 MiB	4.09 TiB	lz4	1.97x	false	off		⋮
templates	dataset	127.88 KiB	4.09 TiB	lz4	1.00x	false	off		⋮

Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;

- Tasks
- Network
- Storage
- Pools
- Snapshots
- VMware-Snapshots
- Disks
- Import Disk
- Directory Services
- Sharing
- Services
- Plugins
- Jails
- Reporting
- Virtual Machines
- Display System Processes
- Shell
- Guide

Storage / Snapshots

Snapshots

🔍 Filter Snapshots

ADD

<input type="checkbox"/>	Dataset	Snapshot	
<input type="checkbox"/>	pool1/iocage/releases/11.3-RELEASE/root	LMS-Cory	>
<input type="checkbox"/>	pool1/Users	auto-2020-04-06_00-00	>
<input type="checkbox"/>	pool1/Users	auto-2020-04-05_00-00	>
<input type="checkbox"/>	pool1/Music	auto-2020-04-05_00-00	>
<input type="checkbox"/>	pool1/Users	auto-2020-04-04_00-00	>
<input type="checkbox"/>	pool1/Users	auto-2020-04-03_00-00	>
<input type="checkbox"/>	pool1/Users	auto-2020-04-02_00-00	>
<input type="checkbox"/>	pool1/Users	auto-2020-04-01_00-00	>
<input type="checkbox"/>	pool1/Music	auto-2020-03-31_10-00	>
<input type="checkbox"/>	pool1/ClickArt	auto-2020-03-31_10-00	>
<input type="checkbox"/>	pool1/Users	auto-2020-03-31_00-00	>

1 - 11 of 11

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
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FreeNAS

Tasks

Network

Storage

Pools

Snapshots

VMware-Snapshots

Disks

Import Disk

Directory Services

Sharing

Services

Plugins

Jails

Reporting

Virtual Machines

Display System Processes

Shell

Guide

Storage / Disks

Disks

Filter Disks

COLUMNS

<input type="checkbox"/>	Name	Pool	Serial	Disk Size	
<input type="checkbox"/>	ada0	pool1	WD-WCC4M5HZH5KH	1.82 TiB	>
<input type="checkbox"/>	ada1	pool1	WD-WCC4M6SS0HKZ	1.82 TiB	>
<input type="checkbox"/>	ada2	pool1	WD-WCC4M6SS0U8S	1.82 TiB	>
<input type="checkbox"/>	ada3	pool1	WD-WCC4M7VX3R5V	1.82 TiB	>
<input type="checkbox"/>	ada4	Boot Pool	S251NXAG805627V	238.47 GiB	>

1 - 5 of 5

Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;

Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;

Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;

FreeNAS

Tasks

Network

Storage

Directory Services

Sharing

Apple Shares (AFP)

Block Shares (iSCSI)

Unix Shares (NFS)

WebDAV Shares

Windows Shares (SMB)

Services

Plugins

Jails

Reporting

Virtual Machines

Display System Processes

Shell

Guide

Sharing / SMB

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Samba

Filter Samba

COLUMNS

ADD

Name	Path	Description	
Backups	/mnt/pool1/Backups		
ClickArt	/mnt/pool1/ClickArt		
Music	/mnt/pool1/Music		
Users	/mnt/pool1/Users		

1 - 4 of 4

Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;

Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;

Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;



🔒 root
Cory.local

- 🏠 Dashboard
- 👤 Accounts
- 💻 System
- 📅 Tasks
- 🌐 Network
- 💾 Storage
- 👤 Directory Services
- 📁 Sharing
- ⚙️ **Services**
- 🧩 Plugins
- 🔒 Jails
- 📊 Reporting
- 💻 Virtual Machines
- ⚙️ Display System Processes
- > Shell
- 📘 Guide

Services

🔍 Filter Service			
Name	Running	Start Automatically	Actions
NFS	<input type="checkbox"/>	<input type="checkbox"/>	✎
Rsync	<input type="checkbox"/>	<input type="checkbox"/>	✎
S.M.A.R.T.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✎
S3	<input type="checkbox"/>	<input type="checkbox"/>	✎
SMB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✎
SNMP	<input type="checkbox"/>	<input type="checkbox"/>	✎
SSH	<input type="checkbox"/>	<input type="checkbox"/>	✎
TFTP	<input type="checkbox"/>	<input type="checkbox"/>	✎
UPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✎
WebDAV	<input type="checkbox"/>	<input type="checkbox"/>	✎
15 total			

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```

- 🔒 root
Cory.local
- 🏠 Dashboard
- 👤 Accounts
- 💻 System
- 📅 Tasks
- 🌐 Network
- 📁 Storage
- 🔗 Directory Services
- 🔖 Sharing
- ⚙️ Services
- 🧩 **Plugins**
- 🏠 Jails
- 📊 Reporting
- 💻 Virtual Machines
- ⚙️ Display System Processes
- > Shell
- 📘 Guide

Plugins

Plugins

🔍 Filter Plugins

COLUMNS

Browse a Collection
iXsystems

🔄 REFRESH INDEX



Allows administrators to back up data from network-connected computers and mobile devices. Leverages standard API calls from a single on-site Asigra service (DS-Client) to reach into these devices and access the data.

Official Plugin ✓
Version: 14.1_8
Installed Instances: 0

INSTALL

<input type="checkbox"/>	Jail	Status	Admin Portals	Boot
No data to display				

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```



🔒 root
Cory.local

- Dashboard
- Accounts ▾
- System ▾
- Tasks ▾
- Network ▾
- Storage ▾
- Directory Services ▾
- Sharing ▾
- Services
- Plugins
- Jails
- Reporting
- Virtual Machines
- Display System Processes
- Shell
- Guide

Jails

Jails

🔍 Filter Jails

COLUMNS ▾

ADD

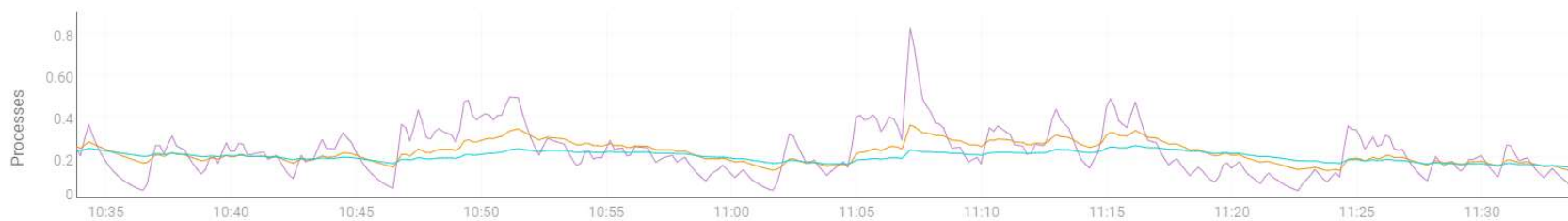


<input type="checkbox"/>	Name	JID	State	Release	
<input type="checkbox"/>	LMS-Cory	1	up	11.3-RELEASE-p5	>

1 - 1 of 1

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```

System Load



Shortterm : min: 0.04 mean: 0.23 max: 0.82

Midterm : min: 0.13 mean: 0.22 max: 0.36

Longterm : min: 0.15 mean: 0.2 max: 0.26

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```



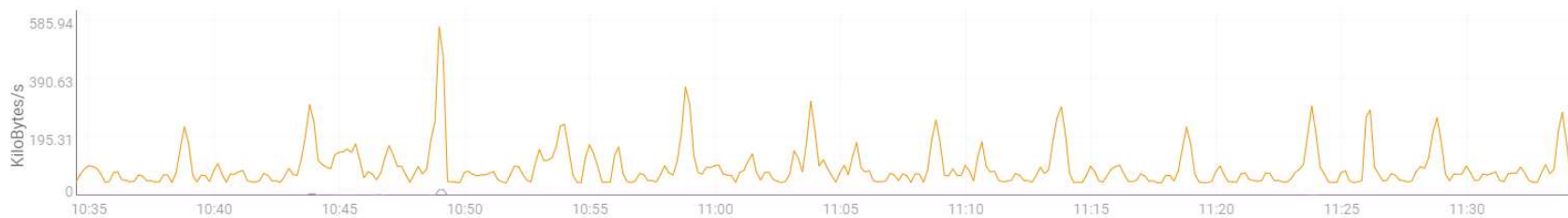
🔒 root
Cory.local

- Dashboard
- Accounts
- System
- Tasks
- Network
- Storage
- Directory Services
- Sharing
- Services
- Plugins
- Jails
- Reporting
- Virtual Machines
- Display System Processes
- Shell
- Guide

Reporting / Disk

DISK ▾ DEVICES ▾ METRICS ▾

Disk I/O (ada0)



● Read : min: 0 mean: 182.55 max: 19.8KB

● Write : min: 41.8KB mean: 92.83KB max: 564.4KB

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```




NETWORK

Interface Traffic (em0)



Start: Mon Apr 06 2020 10:34:39 GMT-0400 (Eastern Daylight Time)

End: Mon Apr 06 2020 11:34:39 GMT-0400 (Eastern Daylight Time)

Octets Rx :	min: 2.76kb	mean: 154.2kb	max: 22.26mb
Overlap :	min: 1.74kb	mean: 134.76kb	max: 21.28mb

Octets Tx :	min: 1.74kb	mean: 181.38kb	max: 21.28mb
-------------	-------------	----------------	--------------

```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;  
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```



🔒 root
Cory.local

- Dashboard
- Accounts
- System
- Tasks
- Network
- Storage
- Directory Services
- Sharing
- Services
- Plugins
- Jails
- Reporting
- Virtual Machines
- Display System Processes
- Shell
- Guide

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Shell

Shell

```
Last login: Mon Apr  6 11:36:15 on pts/0
FreeBSD 11.3-RELEASE-p6 (FreeNAS.amd64) #0 r325575+d5b10edfcb(HEAD): Fri Feb 21
18:53:26 UTC 2020

FreeNAS (c) 2009-2020, The FreeNAS Development Team
All rights reserved.
FreeNAS is released under the modified BSD license.

For more information, documentation, help or support, go here:
http://freenas.org
Welcome to FreeNAS

Warning: settings changed through the CLI are not written to
the configuration database and will be reset on reboot.

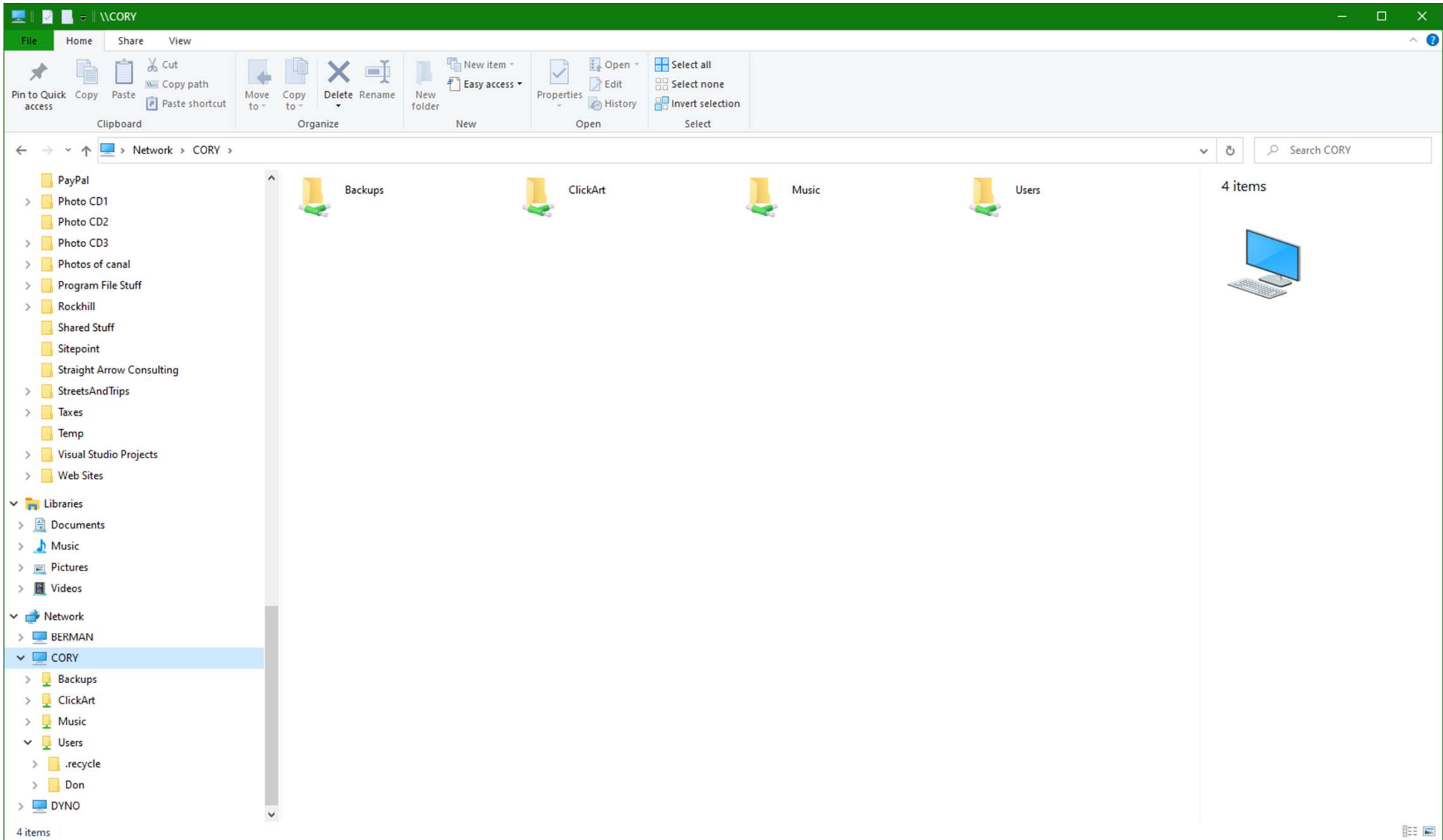
root@Cory[~]#
```

Set font size:

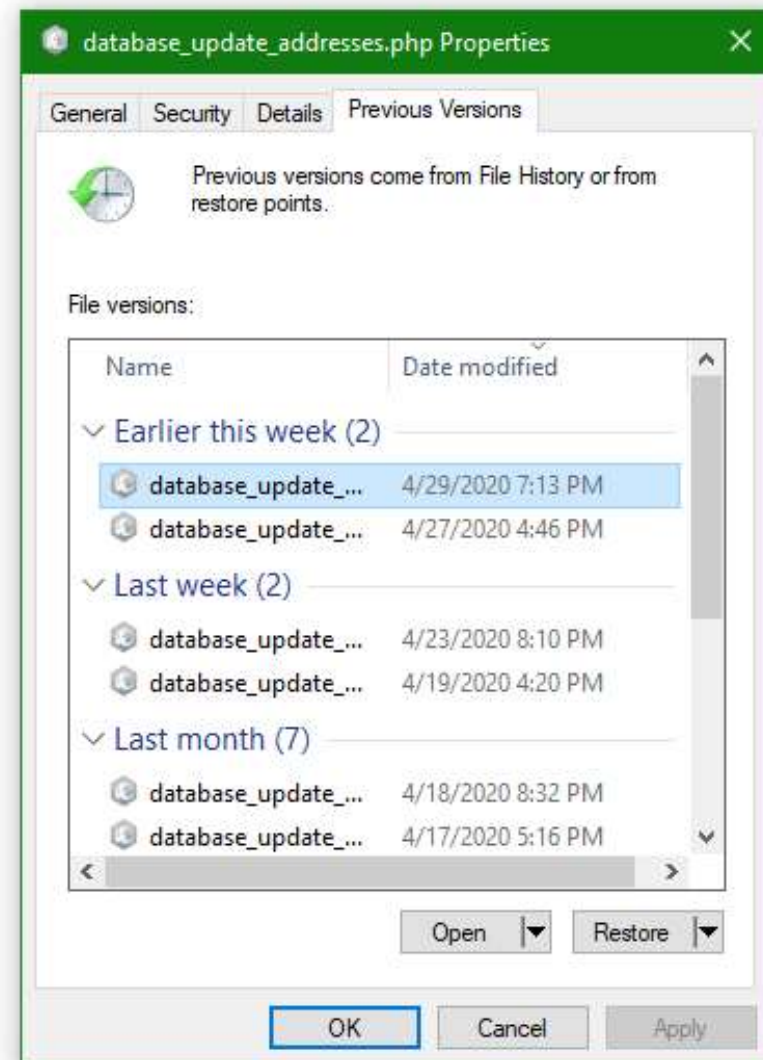
RESTORE DEFAULT

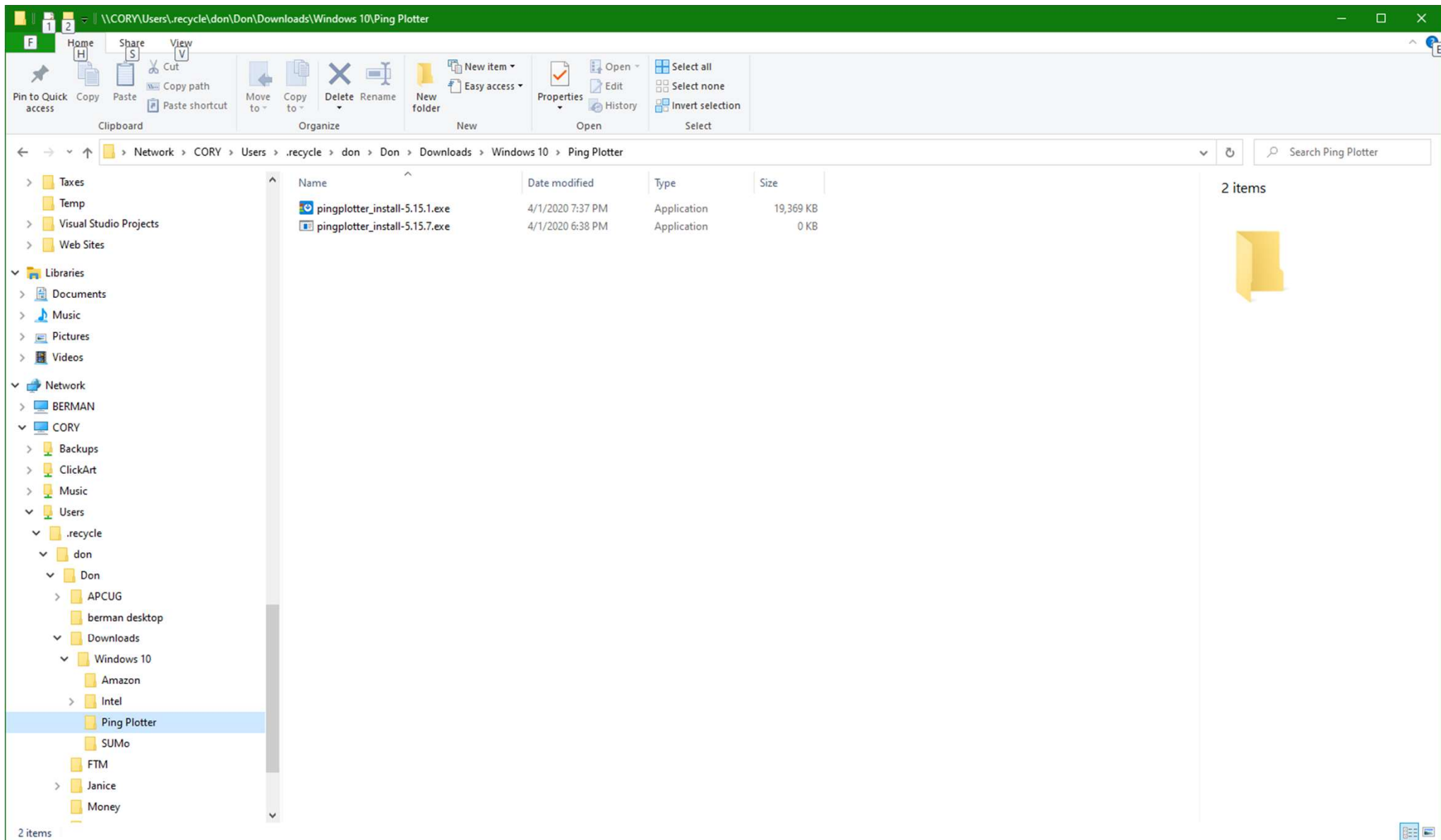


```
Apr 5 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload request received, reloading configuration;
Apr 6 00:00:00 Cory syslog-ng[1028]: Configuration reload finished;
```



accounts.php	4/30/2020 2:41 PM	PHP File	2 KB
checkin_lister.php	9/18/2019 12:59 PM	PHP File	3 KB
common.phpOBS	9/21/2019 11:07 AM	PHPOBS File	1 KB
common2.php	4/29/2020 4:15 PM	PHP File	5 KB
database_access.php	1/14/2017 5:17 PM	PHP File	1 KB
database_access_forum.php	7/30/2017 4:05 PM	PHP File	1 KB
database_backup_cron.php	7/26/2017 8:37 PM	PHP File	1 KB
database_backup_forum_cron.php	8/2/2017 3:52 PM	PHP File	6 KB
database_errorcheck_addresses.php	4/27/2020 3:49 PM	PHP File	19 KB
database_lister_addresses.php	4/29/2020 4:52 PM	PHP File	30 KB
database_lister_balances.php	4/29/2020 7:30 PM	PHP File	7 KB
database_lister_finances.php	4/30/2020 4:59 PM	PHP File	13 KB
database_monthly_finances.php	4/30/2020 5:14 PM	PHP File	13 KB
database_purge_calendar.php	7/14/2017 4:53 PM	PHP File	5 KB
database_update_addresses.php	5/1/2020 7:51 PM	PHP File	101 KB
database_update_addresses.phpXXX	4/12/2020 12:56 PM	PHPXXX File	92 KB
database_update_calendar.php	4/18/2020 8:02 PM	PHP File	40 KB
database_update_finances.php	4/30/2020 5:24 PM	PHP File	52 KB
database_yearly_finances.php	4/30/2020 5:01 PM	PHP File	12 KB
dates.php	4/8/2020 11:28 AM	PHP File	1 KB
dropdown-about.php	7/17/2017 3:55 PM	PHP File	1 KB
dropdown-connect.php	7/30/2017 2:28 PM	PHP File	1 KB
dropdown-groups.php	9/4/2019 3:05 PM	PHP File	2 KB
dropdown-meetings.php	7/30/2019 5:03 PM	PHP File	2 KB
dropdown-membership.php	12/25/2014 4:31 PM	PHP File	1 KB





RT-AC86U

[Overview](#)[Specifications](#)[Gallery](#)[Review](#)[Support](#)[Where to buy](#)

AC2900 Dual Band Gigabit WiFi Gaming Router with MU-MIMO, AiMesh for mesh wifi system, AiProtection network security by Trend Micro, WFast game accelerator and Adaptive QoS

- **Dual-band (2.4 + 5 GHz) AC2900 wireless router** with the latest 802.11ac MU-MIMO technology for data transfer speeds up to 2900 Mbps
- **1.8GHz 64bit Dual-Core processor** optimizes network traffic and connectivity speeds from the USB 3.1 Gen1 and 4x Gigabit LAN ports
- **Designed for lag-free online gaming and flawless 4K UHD streaming** with WFast® Game Accelerator and Adaptive QoS
- **AiProtection Powered by Trend Micro™** provides built-in 24/7 protection from external attacks and threats, neutralizing them before they reach your network or connected devices
- **Manage your network with the ASUS Router app** – setup your network, manage usage and parental controls, even get instant notifications about important network-based events
- **AiMesh Supported** - Connect to other compatible ASUS routers to create a powerful and flexible whole-home Wi-Fi network

[Add to comparison](#)

PC Pro Technology Excellence Award 2016

RT-AC86U

[Overview](#)[Specifications](#)[Gallery](#)[Review](#)[Support](#)[Where to buy](#)

Encryption

64-bit WEP, 128-bit WEP, WPA2-PSK, WPA-PSK, WPA-Enterprise, WPA2-Enterprise, WPS support

Firewall & Access Control

Access control : Parental control, Network service filter, URL filter, Port filter

Management

UPnP, IGMP v1/v2/v3, DNS Proxy, DHCP, NTP Client, DDNS, Port Trigger, Port Forwarding, DMZ, System Event Log

VPN Support

IPSec Pass-Through
PPTP Pass-Through
L2TP Pass-Through
PPTP server
OpenVPN server
PPTP client
L2TP client
OpenVPN client

WAN Connection Type

Internet connection type : Automatic IP, Static IP, PPPoE(MPPE supported), PPTP, L2TP

Utilities

Router setup wizard; Firmware restoration; Device discovery; printer setup utility

Ports

RJ45 for Gigabits BaseT for WAN x 1, RJ45 for 10/100/1000/Gigabits BaseT for LAN x 4
USB 2.0 x 1
USB 3.0 x 1

Features

MU-MIMO
Traffic Analyzer
Adaptive QoS
WiFiFast Gamers Private Network
AiProtection
Parental Control
Guest Network : 2.4 GHz x 3, 5 GHz x 3
Mac OS Backup

ASUS RT-AC86U

LogoutReboot

English

Quick Internet Setup

Operation Mode: **wireless router** Firmware Version: **3.0.0.4.384_81918** App

SSID: **Arrowsmith2** **Arrowsmiths**

VPN Server

VPN Client

VPN Server - OpenVPN

PPTPOpenVPNIpSec VPN

Basic Config

Enable OpenVPN Server

ON

VPN Details

General

Server Port

1194

Due to security concerns, we suggest using a port from 1025 to 65535.

RSA Encryption

1024 bit

2048 bit

Client will use VPN to access

Local network only

Internet and local network

Export OpenVPN configuration file

Export

Export Current Certification

Export

Import Original Certification

Upload

RT-AC86U will automatically generate a .ovpn file with the Certification Authority key. You can provide the .ovpn file with a username and password to all users connecting to the OpenVPN server. You can change the default settings of the OpenVPN server to provide a custom OPVN file for a specific connection type. If your WAN IP address is dynamic, please click [here](#) to set the DDNS. To change OpenVPN server settings, go to Advanced Settings.

1. [Windows](#)

2. [Mac OS](#)

3. [iPhone/iPad](#)

4. [Android](#)

Username and Password (Max Limit : 16)

Connection Status	Username	Password	Add / Delete
-			+
Disconnected	admin	-	-
Disconnected	arrowsmith	-	-

Apply

General

Network Map

Guest Network

AiProtection

Adaptive QoS

Traffic Analyzer

Game

Open NAT

USB Application

AiCloud 2.0

Advanced Settings

Wireless

LAN

WAN

IPv6

VPN

Firewall

Administration

System Log

ASUS RT-AC86U

LogoutRebootEnglish

Quick Internet Setup

General

Network Map

Guest Network

AiProtection

Adaptive QoS

Traffic Analyzer

Game

Open NAT

USB Application

AiCloud 2.0

Advanced Settings

Wireless

LAN

WAN

IPv6

VPN

Firewall

Operation Mode: **Wireless router** Firmware Version: **3.0.0.4.384.81369**

SSID: **Arrowsmith2** **Arrowsmith5**

App

Internet ConnectionDual WANPort TriggerVirtual Server / Port ForwardingDMZDDNSNAT Passthrough

WAN - DDNS

DDNS (Dynamic Domain Name System) is a service that allows network clients to connect to the wireless router, even with a dynamic public IP address, through its registered domain name. The wireless router is embedded with the ASUS DDNS service and other DDNS services.
If you cannot use ASUS DDNS services, please go to <http://iplookup.asus.com/nslookup.php> to reach your internet IP address to use this service.

Enable the DDNS Client	<input type="radio"/> Yes <input type="radio"/> No
Server	<div>www.dnsomatic.comFree Trial</div>
Host Name	<div>all.dnsomatic.com</div>
Username or E-mail Address	<div></div>
Password or DDNS Key	<div>.....</div>
Enable wildcard	<input type="radio"/> Yes <input type="radio"/> No
WAN IP and hostname verification	<input type="radio"/> Yes <input type="radio"/> No
HTTPS/SSL Certificate	<input type="radio"/> Free Certificate from Let's Encrypt <input type="radio"/> Import Your Own Certificate <input type="radio"/> None

Apply

e | SaveGenerateSync

Your Services / [expand all](#)

SERVICE	STATUS	DETAIL	ACTIVE?
 ChangeIP a123456789 :: a123456789.changeip.net	69.254.254.254 Jun 12, 2020 7:16 am		
 No-IP a123456789 :: a123456789.no-ip.org	69.254.254.254 Jun 12, 2020 7:16 am		
 OpenDNS a123456789 :: a123456789.opendns.com	69.254.254.254 Jun 12, 2020 7:16 am		

 [Add a service](#)

► [How does this work?](#)

► [What is DNS-O-Matic?](#)

► [Why DNS-O-Matic?](#)

[Are you a developer?](#)

Getting started with the DNS-O-Matic API is easy. [Read the documentation...](#)

[Contact](#)

Questions or inquiries? Please email dnsomatic@opendns.com



DNS Manager

Portal Home / Domain Management

Domain: arrchangeip.net

Total Records:1

Select All | Cancel All

Hostname	Type	Value	TTL	Set 1	Set 2
@	A	69	30	No	No

Save

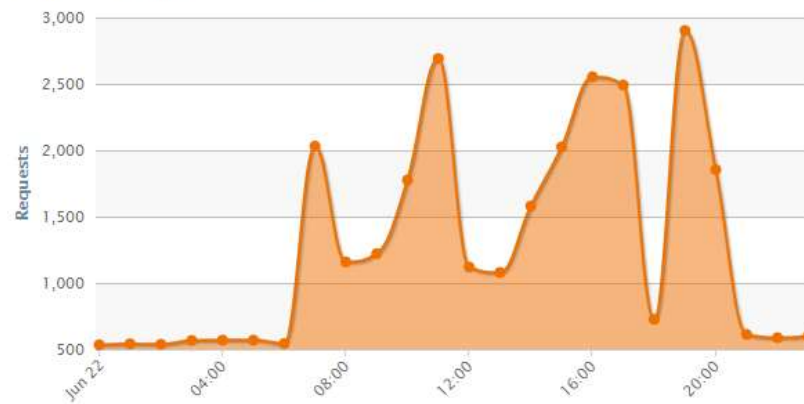
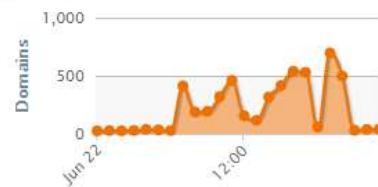
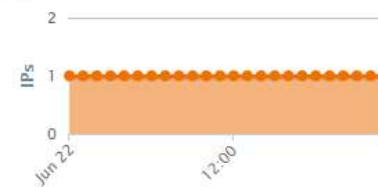
Add Record

Cancel

View Stats for: Arrowsmith (69) ▾

[Total Requests](#)[Total Unique Domains](#)[Unique IPs](#)[Domains](#)[Blocked Domains](#)[Request Types](#)**This is your Dashboard**

Every element on this page is designed to give you a quick snapshot look into your DNS. Dive deeper for customizable charts, tables and raw data.

Recent Activity (Arrowsmith, last day)**Unique Domains****Unique IPs****Request Types**

Type	Requests
A	15477
AAAA	15363
PTR	34
SOA	1

Domains

Domain	Requests
dns.msftncsi.com	11444
solid.prayerproject.com	775
ssl.gstatic.com	459
www.virtualgumshoe.com	350

Settings for: Am (69)

[Add/manage networks](#)

Web Content Filtering

[Security](#)[Customization](#)[Stats and Logs](#)[Advanced Settings](#)

Users can contact you

Your users can contact you directly from the block page if they have questions. It'll show up as an email in your inbox.

Note about DNS forwarding

If you are forwarding requests to OpenDNS, domain blocking may not work properly if the domain's address is in your forwarder's cache.

Check a domain

[Find out](#) whether it would be blocked, and why.

Web Content Filtering

Choose your filtering level

- ☐ **High** Protects against all adult-related sites, illegal activity, social networking sites, video sharing sites, and general time-wasters.
27 categories in this group - [View](#) - [Customize](#)
- ☐ **Moderate** Protects against all adult-related sites and illegal activity.
14 categories in this group - [View](#) - [Customize](#)
- ☐ **Low** Protects against pornography.
5 categories in this group - [View](#) - [Customize](#)
- ☒ **None** Nothing blocked.
- ☐ **Custom** Choose the categories you want to block.

APPLY

Manage individual domains

If there are domains you want to make sure are always blocked (or always allowed) regardless of the categories blocked above, you can add them below.

Always block ▼

ADD DOMAIN



BUSINESS VPN

PERSONAL VPN

SUPPORT

COMMUNITY

GET OPENVPN

OUR PRIVATE TUNNEL: VPN AS A SERVICE

Connecting Your World Securely

Downloaded by millions of people and businesses worldwide and used by IT and Fortune 500 Companies, OpenVPN is the provider of next-gen secure and scalable communication services. Our award-winning open source VPN protocol is the de-facto standard for accessing private information securely. That's the legacy of our software. That's what Private Tunnel is built on.

Wherever you are surfing the net, whether it's at home, over a public wi-fi or traveling, know that your connection is encrypted and your IP address is anonymous. Your devices and network will remain secure and defended with Private Tunnel VPN.

Our mission is to connect your world securely by providing a more safe and secure experience online.

TAKE ME TO PRIVATE TUNNEL



PRIVATE ACCESS

- Encrypt Traffic
- Secure Connections on WiFi Hot Spots
- Keep your IP address anonymous



CYBER SECURITY

- Protect your network against online threats
- Shield your devices from cyber threats
- Reduce cyber attacks, spoofing and DDoS attacks



VIRTUAL PRESENCE

- Connect to our servers worldwide
- Access the free world
- Maintain your location while traveling



BUSINESS VPN

PERSONAL VPN

SUPPORT

COMMUNITY

GET OPENVPN

Community Downloads

OpenVPN 2.4.8 — released on 2019.10.31

CLOSE

This is primarily a maintenance release with bugfixes and improvements. The Windows installers (I601) have several improvements compared to the previous release:

- New tap-windows6 driver (9.24.2) which fixes some suspend and resume issues
- Latest OpenVPN-GUI
- Considerable performance boost due to new compiler optimization flags

A summary of the changes is available in [Changes.rst](#), and a full list of changes is available [here](#).

Please note that LibreSSL is not a supported crypto backend. We accept patches and we do test on OpenBSD 6.0 which comes with LibreSSL, but if newer versions of LibreSSL break API compatibility we do not take responsibility to fix that.

Also note that Windows installers have been built with NSIS version that has been patched against several [NSIS installer code execution and privilege escalation problems](#). Based on our testing, though, older Windows versions such as Windows 7 might not benefit from these fixes. *We thus strongly encourage you to always move NSIS installers to a non-user-writable location before running them.* We are moving to MSI installers in OpenVPN 2.5, but OpenVPN 2.4x will remain NSIS-only.

Compared to OpenVPN 2.3 this is a major update with a large number of new features, improvements and fixes. Some of the major features are AEAD (GCM) cipher and Elliptic Curve DH key exchange support, improved IPv4/IPv6 dual stack support and more seamless connection migration when client's IP address changes (Peer-ID). Also, the new `--tls-crypt` feature can be used to increase users' connection privacy.

OpenVPN GUI bundled with the Windows installer has a large number of new features compared to the one bundled with OpenVPN 2.3. One of major features is the



[BUSINESS VPN](#)

[PERSONAL VPN](#)

[SUPPORT](#)

[COMMUNITY](#)

[GET OPENVPN](#)

OPENVPN OPEN SOURCE

Community Resources



SEARCH

DOCUMENTATION

ARTICLES

FAQS

BOOKS

Configuring client-specific rules and access policies

READ

Which version of OpenVPN to use

READ

Configuring OpenVPN to run automatically on system startup

READ

Connecting to a Samba share over OpenVPN

READ

Connecting to an OpenVPN server via an HTTP proxy.

READ



1-800-691-1991 | 9am - 8pm ET

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- Free Windows backup solution
- Protect your entire workforce for FREE
- CryptoLocker protection
- Multiple backup and recovery options

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The FREE standalone Veeam® Agent for Microsoft Windows provides a simple solution for backing up **Windows-based desktops** and **laptops**. With Veeam Agent for Microsoft Windows FREE, you can easily back up your computer to an external hard drive, NAS (network-attached storage) share or a Veeam Backup & Replication™ repository.

And, should **ransomware** encrypt your files, your system fail to boot, your hard drive crash or an important file get corrupted or accidentally deleted, you can recover what you need in minutes — like it never happened.

























Veeam Agent for Windows

NEW TOPIC

V10 Better Backup  [LEARN MORE](#)

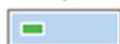
3460 topics 1 2 3 4 5 ... 173

TOPICS	REPLIES	VIEWS	LAST POST
 [ALL VERSIONS] Current version is 4.0 (February 18, 2020) by Dima P. » Aug 04, 2015 2:51 pm	7	212807	by Dima P.  Feb 18, 2020 12:32 pm
 Veeam NAS Backup cache repository by rpop » Apr 06, 2020 2:02 pm	0	17	by rpop  Apr 06, 2020 2:02 pm
 Dedupe Value shown in Report by stevendt » Apr 05, 2020 4:58 pm	1	48	by HannesK  Apr 06, 2020 6:53 am
 Veeam Agent notifications TLS 1.2 Support for Office365 by Luther T » Mar 19, 2020 5:15 pm	5	623	by Dima P.  Apr 05, 2020 8:45 pm
 Backup Chain by SaberGFX » Apr 04, 2020 2:28 pm	4	88	by SaberGFX  Apr 04, 2020 7:22 pm
 Veeam Endpoint Backup and Truecrypt by csarli » Dec 17, 2014 5:16 pm	 1 2 3 70	13899	by MikhailZ  Apr 04, 2020 4:44 pm
 missing update to 9.5 but i run 10... by vroom » Mar 31, 2020 5:46 pm	4	75	by vroom  Apr 03, 2020 5:59 pm
 Encryption Standard by richie94127 » Apr 02, 2020 8:50 pm	3	37	by richie94127  Apr 03, 2020 5:07 pm
 Baremetal recovery from SSD to NVMe? by Tobias.F » Apr 02, 2020 1:32 pm	3	74	by Tobias.F  Apr 03, 2020 3:28 pm
 Impossible to delete Veeam Register Key by Julien Aesir » Jan 31, 2018 9:54 am	11	3822	by lubos  Apr 03, 2020 11:51 am
 Failed to resolve IP's for repository ?	9	297	by agrob 



Name

Type in a name and description for this backup job.



Name

Backup Mode

Destination

Shared Folder

Schedule

Summary

Name:

Berman image backup

Description:

Created by BERMAN\donal at 8/11/2019 8:28 AM.

< Previous

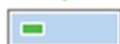
Next >

Finish

Cancel

**Backup Mode**

Choose what data you want to backup from this computer.



Name

Backup Mode

Destination

Shared Folder

Schedule

Summary

☒ **Entire computer (recommended)**

Back up your entire computer image for fast recovery on any level. Deleted, temporary and page files are automatically excluded from the image to reduce the backup size.

☐ Include external USB drives☐ **Volume level backup**

Back up images of selected volumes, for example only data volumes. Deleted, temporary and page files are automatically excluded from the image to reduce the backup size.

☐ **File level backup (slower)**

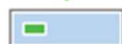
Back up individual files and folders by mask. This mode produces an image-based backup with only selected files included in the image.

< Previous

Next >

Finish

Cancel

**Destination**

Choose where you want to backup your data to. We highly recommend that you do not store your backups on the same computer that you are protecting.

Name

Backup Mode

Destination

Shared Folder

Schedule

Summary

☐ **Local storage**

Choose this option to back up to a locally attached storage device such as USB, Firewire or eSATA external hard drive. Backing up to internal hard drives is not recommended.

☒ **Shared folder**

Choose this option to back up to an SMB (CIFS) share on a Network Attached Storage (NAS) device, or on a regular file server.

☐ **Veeam backup repository**

Choose this option to back up to a backup repository managed by Veeam Backup & Replication 10 or later server.

☐ **Microsoft OneDrive**

Choose this option to back up to the Microsoft OneDrive or Microsoft OneDrive for Business.

< Previous

Next >

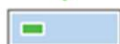
Finish

Cancel



Shared Folder

Specify a shared folder to backup to, and account to connect to a shared folder with.



Name

Backup Mode

Destination

Shared Folder

Schedule

Summary

Shared folder:

\\cory\Backups\Berman

Browse...

n/a

[Map backup](#)

Populate

☒ This share requires access credentials:

Username: don

Password: *[To change the saved password, click here]*

Keep backups for: 90 days (excluding days with no backup)

Click Advanced to enable periodic full backups, configure encryption and other backup file settings

⚙ Advanced

< Previous

Next >

Finish

Cancel

Advanced Settings ✕

Backup Maintenance Storage

Active full backup

☒ Create active full backups periodically i

☐ Monthly on: First Monday Months...

☒ Weekly on selected days: Days...

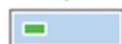
Saturday

OK Cancel



Schedule

Choose when you want backup job to be started automatically.



Name

Backup Mode

Destination

Shared Folder

Schedule

Summary

Periodically

We will wake your computer from sleep to take a backup unless the connected standby power model is enabled. Normally, this model is only enabled on mobile devices, such as tablets.

☒ Daily at

12:30 PM

Everyday

Days...

If computer is powered off at this time

Skip backup

Once backup is taken, computer should

Keep running

At the following events

☐ Lock

☐ Log off

☐ When backup target is connected 

☐ Eject removable storage once backup is completed (CryptoLocker protection)

Back up no more often than every 2

Hour

< Previous

Apply

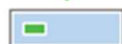
Finish

Cancel



Summary

You have successfully edited the backup job.



Name

Backup Mode

Destination

Shared Folder

Schedule

Summary

Summary:

Backup job was modified successfully.

General -----

Backup job name: Berman image backup

Backup job description:

Created by BERMAN\donal at 8/11/2019 8:28 AM.

Source -----

Backup mode: entire computer

The entire computer will be backed up

Destination -----

Shared folder: \\cory\Backups\Berman

Keep restore points for the last 90 days

Compression level: Optimal (recommended)

Storage optimization: LAN target

Storage encryption: disabled

☐ Run the job when I click Finish

< Previous

Next >

Finish

Cancel



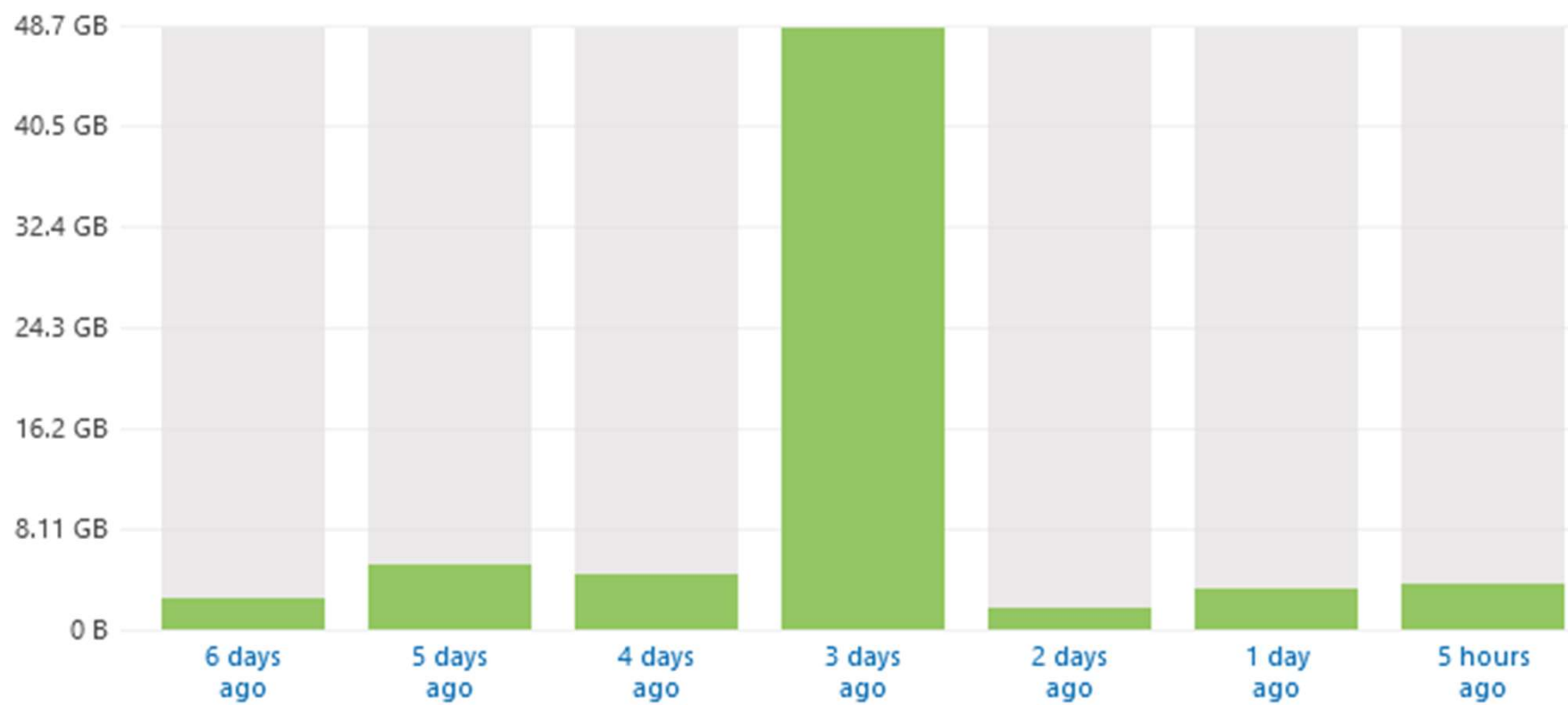
Veeam Agent

Berman image backup



Last backup:
5 hours ago

Backup Now





Restore point details

Berman image backup



Backed up items: Recovery;EFI system partition (dis...

Backup duration: 0:02:29

Restore point size: 3.61 GB

Total backup size: 1.07 TB

Average backup duration: 0:03:43

Free disk space: calculating...

Action**Duration**

✓ Initializing	0:00:05
✓ Preparing for backup	0:00:21
✓ Creating VSS snapshot	0:00:10
✓ Calculating digests	0:00:06
✓ Recovery (disk 0) (450.0 MB) 14.5 MB read at 9 MB/s [CBT]	0:00:01
✓ EFI system partition (disk 0) (100.0 MB) 100.0 MB read at 100 MB/s	
✓ Berman (C:) (106.3 GB) 17.2 GB read at 305 MB/s [CBT]	0:00:57
✓ Recovery partition (disk 0) (520.0 MB) 433.0 MB read at 433 MB/s	
✓ Finalizing	0:00:02
✓ Incremental backup created	
✓ Processing finished at 6/23/2020 12:32:29 PM	

Restore FilesRestore Volumes

← → ↕ ⬆ > Network > CORY > Backups > Buggy > Buggy image backup

schedules
survey
forum_password_change.zip
PFMS
PowerSentences
PRS
Rooms Rejuvenated
Urban Connection Salon
Very Seldom
WastelsATerribleThingToMind
WritingWand
WTSRlegacy

Libraries
Documents
Music
Pictures
Videos

Network
BERMAN
CORY

Backups
Berman
Buggy
Buggy image backup

Name	Date modified	Type	Size
Buggy image backup.vbm	4/29/2020 12:17 PM	Veeam Backup & ...	999 KB
Buggy image backup2020-01-01T104127.vbk	1/1/2020 10:53 AM	Veeam Backup & ...	42,194,872 KB
Buggy image backup2020-02-11T143155.vbk	2/11/2020 2:44 PM	Veeam Backup & ...	42,212,740 KB
Buggy image backup2020-02-13T124512.vib	2/13/2020 12:49 PM	Veeam Backup & ...	12,470,884 KB
Buggy image backup2020-02-16T124509.vib	2/16/2020 12:47 PM	Veeam Backup & ...	3,287,360 KB
Buggy image backup2020-02-17T124511.vib	2/17/2020 12:47 PM	Veeam Backup & ...	1,964,448 KB
Buggy image backup2020-02-23T124509.vib	2/23/2020 12:48 PM	Veeam Backup & ...	5,113,356 KB
Buggy image backup2020-02-24T124508.vib	2/24/2020 12:47 PM	Veeam Backup & ...	2,896,480 KB
Buggy image backup2020-02-27T124509.vib	2/27/2020 12:47 PM	Veeam Backup & ...	4,929,464 KB
Buggy image backup2020-03-03T124511.vib	3/3/2020 12:48 PM	Veeam Backup & ...	5,773,764 KB
Buggy image backup2020-03-04T134023.vbk	3/4/2020 1:53 PM	Veeam Backup & ...	44,286,588 KB
Buggy image backup2020-03-21T121510.vbk	3/21/2020 12:27 PM	Veeam Backup & ...	43,686,168 KB
Buggy image backup2020-03-24T170254.vib	3/24/2020 5:06 PM	Veeam Backup & ...	5,809,524 KB
Buggy image backup2020-03-25T121509.vib	3/25/2020 12:17 PM	Veeam Backup & ...	2,645,556 KB
Buggy image backup2020-03-28T121509.vbk	3/28/2020 12:31 PM	Veeam Backup & ...	55,270,644 KB
Buggy image backup2020-04-01T121510.vib	4/1/2020 12:17 PM	Veeam Backup & ...	1,583,576 KB
Buggy image backup2020-04-07T121510.vib	4/7/2020 12:17 PM	Veeam Backup & ...	4,132,044 KB
Buggy image backup2020-04-09T121509.vib	4/9/2020 12:17 PM	Veeam Backup & ...	3,851,268 KB
Buggy image backup2020-04-14T162908.vib	4/14/2020 4:33 PM	Veeam Backup & ...	8,296,872 KB
Buggy image backup2020-04-15T121512.vib	4/15/2020 12:17 PM	Veeam Backup & ...	1,315,768 KB
Buggy image backup2020-04-18T121510.vbk	4/18/2020 12:27 PM	Veeam Backup & ...	42,885,596 KB
Buggy image backup2020-04-22T121509.vib	4/22/2020 12:18 PM	Veeam Backup & ...	7,949,492 KB
Buggy image backup2020-04-25T121509.vbk	4/25/2020 12:27 PM	Veeam Backup & ...	44,387,972 KB
Buggy image backup2020-04-27T121509.vib	4/27/2020 12:17 PM	Veeam Backup & ...	2,420,044 KB
Buggy image backup2020-04-28T121509.vib	4/28/2020 12:17 PM	Veeam Backup & ...	2,537,932 KB
Buggy image backup2020-04-29T121511.vib	4/29/2020 12:17 PM	Veeam Backup & ...	1,809,460 KB

My Media

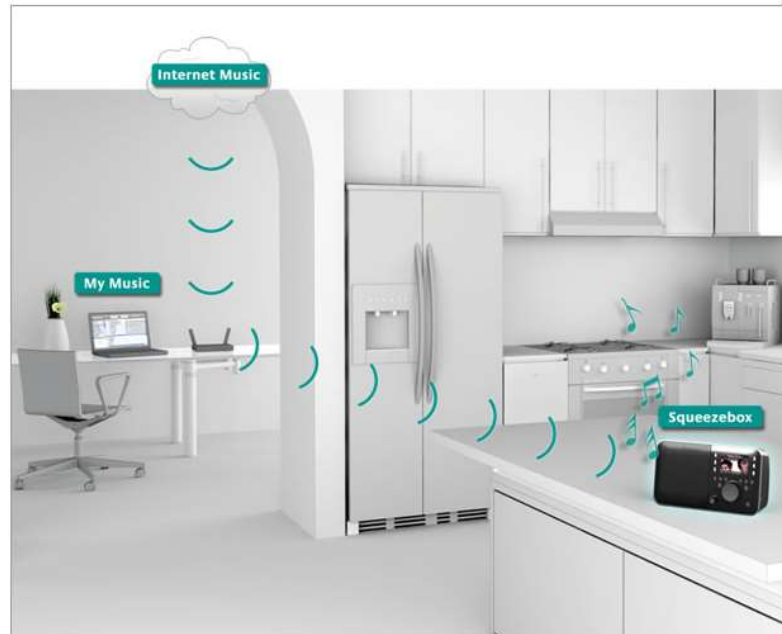
Your music on your Squeezebox. Music, photos, and videos on your Revue.

It doesn't matter if your library includes 100 tracks or 100,000. Or if you rip your own CDs or buy your music from services like iTunes and Amazon MP3. Download Logitech Media Server software today and start listening to your personal music collection on a Squeezebox in any room in your home.

 Logitech Media Server v7.7.6

Windows XP/2003/2008/Vista/7/8/10 (56MB) ▾

[Download Logitech Media Server](#)



Logitech Media Server

Squeezebox Touch1

Logitech

Home

▼ My Music

- Album Artists
- All Artists
- Composers
- Albums
- Compilations
- Genres
- Years
- New Music
- Random Mix
- Music Folder
- Playlists
- Search
- Remote Music Libraries


▶ Radio

▶ My Apps

▶ Favorites

▶ Extras

1. Dancing Queen



ABBA
ABBA Gold (1993)
320kbps CBR, mp3

0:00

ABBA GOLD

Dancing Queen

ABBA

ABBA Gold

ABBA GOLD

Knowing Me, Knowing You

ABBA

ABBA Gold

ABBA GOLD

Take A Chance On Me

ABBA

ABBA Gold

ABBA GOLD

Mamma Mia

ABBA

ABBA Gold

ABBA GOLD

Lay All Your Love On Me

ABBA

ABBA Gold

ABBA GOLD

Super Trouper

ABBA

ABBA Gold

ABBA GOLD

I Have A Dream

ABBA

ABBA Gold

ABBA GOLD

The Winner Takes It All

ABBA

ABBA Gold

ABBA GOLD

Money, Money, Money

ABBA

ABBA Gold

ABBA GOLD

S.O.S.

ABBA

ABBA Gold

ABBA GOLD

Chiquitita

ABBA

667 albums with 9453 songs by 3250 artists.

Total Time: 1:18:31

[?](#) Help

[⚙](#) Settings

Logitech Media Server

Basic Settings | Player | My Music | mysqueezebox.com | Interface | Plugins | Advanced | **Information**

Logitech Media Server Status

```
Logitech Media Server Version: 7.9.2 - TRUNK @ UNKNOWN
Hostname: LMS-Cory
Server IP Address: 192.168.15.167
Server HTTP Port Number: 9000
Operating system: FreeBSD - EN - utf8
Platform Architecture: amd64-freebsd
Perl Version: 5.30.0 - amd64-freebsd-thread-multi
Audio::Scan: 0.95
IO::Socket::SSL: 2.066
Database Version: DBD::SQLite 1.34_01 (sqlite 3.7.7.1)
Total Players Recognized: 5
```

Library Statistics

Total Tracks: 9,480
Total Albums: 670
Total Artists: 3,251
Total Genres: 50
Total Playing Time: 623:45:05

Media Scan Details

[illegible]

Player Information

Information on all identified devices connected to Logitech Media Server

Squeezebox Touch1

```
Player Model: Squeezebox Touch
Player Type: fab4
Firmware: 7.8.0-r16754
Player IP Address: 192.168.15.141
Player MAC Address: 00:04:20:22:9d:26
```


Karen's Replicator the Backup Utility

karenware.com/powertools/karens-replicator-backup-utility

K

HomeAbout UsNewsletterProgramsPurchaseSupport

Karen's Replicator

the Backup Utility for Windows

**** Version 3.7.6 Released May 25, 2020 ****

Automatically backup files, directories, even entire drives!

Karen's Replicator v3.7.6 - Karen's Files

Jobs:

Job Name	#	Last Run	Next Run
<input checked="" type="checkbox"/> Joe's Home	1	5/24/2020 5:00:33 AM	5/25/2020 5:00:00 AM
<input checked="" type="checkbox"/> Joe's Documents	2	5/24/2020 5:19:06 AM	5/25/2020 5:00:00 AM
<input checked="" type="checkbox"/> Karen's Files	3	5/25/2020 4:37:53 AM	5/25/2020 5:00:00 AM
<input checked="" type="checkbox"/> VirtualBox VMs C	4	5/24/2020 5:24:18 AM	5/25/2020 5:00:00 AM
<input checked="" type="checkbox"/> VirtualBox VMs X	5	5/24/2020 5:24:19 AM	5/25/2020 5:00:00 AM
<input checked="" type="checkbox"/> Hyper-V VMs C	6	5/24/2020 5:24:19 AM	5/25/2020 5:00:00 AM
<input checked="" type="checkbox"/> Git Mingw Files	7	5/24/2020 5:24:28 AM	5/25/2020 5:00:00 AM
<input type="checkbox"/> Test Job	8	4/30/2020 9:59:05 AM	5/26/2020 1:00:00 AM
<input type="checkbox"/> LottaFiles	9	4/24/2020 8:41:40 AM	5/26/2020 1:00:00 AM
<input type="checkbox"/> LottaPaths	10	4/24/2020 10:54:05 AM	5/26/2020 1:00:00 AM

Cancel Current Job

Cancel All Jobs

Pause Job

Stop TimerView Log

Edit Settings ...

Up-To-Date

281 GB of 1.82 TB (15.08%) free

Source
K:\Graphics\

Destination
Y:\Backup\K\Graphics\

HelpFAQAbout ...Exit

Running Manual Job: Karen's Files5/25/2020 4:37 AM

Karen's Replicator copies selected files from one drive/folder to another. Source and Destination folders can reside anywhere on your network.

FreeBSD - <https://www.freebsd.org/>

ixSystems - <https://www.ixsystems.com/>

FreeNAS - <https://www.freenas.org/>

ASUS RT-AC86U - <https://www.asus.com/us/Networking/RT-AC86U/>

DNS-O-Matic - <https://www.dnsomatic.com/>

ChangeIP - <https://www.changeip.com/>

No-IP - <https://www.noip.com/>

OpenDNS - <https://www.opendns.com/>

OpenVPN - <https://openvpn.net/>

Veeam - <https://www.veeam.com/>

Logitech Media Server - <https://mysqueezebox.com/download>

Karen's Replicator - <https://www.karenware.com/powertools/>

Questions?

FreeNAS

A Great Choice For A Home Server

Don Arrowsmith, President
Philadelphia Area Computer Society

FreeNAS@ArrowsmithFamily.com



An International
Association of Technology
& Computer User Groups