# Atlantic.Net Blog

## How to Install Syncthing Cloud Sync Service on Ubuntu 18.04

May 1, 2020 by Hitesh Jethva (https://www.atlantic.net/author/hitesh-jethva/) (161posts) under VPS Hosting (https://www.atlantic.net/category/vps-hosting/)

0 Comments (https://www.atlantic.net/vps-hosting/how-to-install-syncthing-cloud-sync-service-on-ubuntu-18-04/#disqus_thread)

(https://facebook.com/sharer/sharer.php?display=popup&u=https://www.atlantic.net/vps-hosting/how-to-install-syncthing-cloud-sync-service-on-ubuntu-18-04/)

(https://twitter.com/intent/tweet/?text=How to Install Syncthing Cloud Sync Service on Ubuntu 18.04&url=https://www.atlantic.net/vps-hosting/how-to-install-syncthing-cloud-sync-service-on-ubuntu-18-04/)

(mailto:?subject=How to Install Syncthing Cloud Sync Service on Ubuntu 18.04&body=https://www.atlantic.net/vps-hosting/how-to-install-syncthing-cloud-sync-service-on-ubuntu-18-04/)

(https://www.linkedin.com/sharing/share-offsite/?url=https://www.atlantic.net/vps-hosting/how-to-install-syncthing-cloud-sync-service-on-ubuntu-18-04/)

(https://reddit.com/submit/?url=https://www.atlantic.net/vps-hosting/how-to-install-syncthing-cloud-sync-service-on-ubuntu-18-04/&resubmit=true&title=How to Install Syncthing Cloud Sync Service on Ubuntu 18.04)

(https://news.ycombinator.com/submitlink?u=https://www.atlantic.net/vps-hosting/how-to-install-syncthing-cloud-sync-service-on-ubuntu-18-04/&t=How to Install Syncthing Cloud Sync Service on Ubuntu 18.04)

Syncthing is a free and open-source file synchronization tool used to synchronize files across multiple devices. Syncthing uses peer-to-peer architecture, meaning that each device attached to your Syncthing network retains copies of the files in your shared folders and pushes new content whenever any changes have been made. Syncthing can be run on most operating systems including Linux, Windows, MacOS, FreeBSD, Solaris and OpenBSD.

**Syncthing offers many features and benefits, some of which are listed below:**

- Easy-to-use

- Secure against attacks
- Powerful and portable
- Safe from data loss
- Fully automatic

In this tutorial, we will show you how to install and configure the Syncthing Cloud Sync service on Ubuntu 18.04.

# Prerequisites

- **Two** fresh Ubuntu 18.04 VPSes (https://www.atlantic.net/vps-hosting/) on the Atlantic.Net Cloud Platform.
- Root passwords configured on both servers.

# Step 1 – Create Atlantic.Net Cloud Server

First, log in to your Atlantic.Net Cloud Server (https://cloud.atlantic.net/?page=userlogin). Create **two** new servers (https://www.atlantic.net/cloud-hosting/how-to-create-new-atlantic-net-cloud-server/), choosing Ubuntu 18.04 as the operating system with at least 1GB RAM. Connect to your Cloud Server via SSH and log in using the credentials highlighted at the top of the page.

Once you are logged into your Ubuntu 18.04 server, run the following command to update your base system with the latest available packages.

```
apt-get update -y
```

# Step 2 – Install Syncthing on Both Servers

By default, Syncthing is not available in the Ubuntu 18.04 default repository, so you will need to add Syncthing repository in your system.

First, install the required packages with the following command:

```
apt-get install curl apt-transport-https -y
```

Once installed, download and import the GPG Key for the repository with the following command:

```
curl -s https://syncthing.net/release-key.txt | apt-key add -
```

Next, add the Syncthing repository with the following command:

```
echo "deb https://apt.syncthing.net/ syncthing release" > /etc/apt/sources.list.d/syn
```

Next, update the repository and install the Syncthing service with the following command:

```
apt-get update -y
apt-get install syncthing -y
```

Once installed, you can verify the installed version of Syncthing with the following command:

```
syncthing --version
```

You should get the following output:

```
syncthing v1.3.4 "Fermium Flea" (go1.13.7 linux-amd64) deb@build.syncthing.net 2020-0
```

**Note: Now repeat the process on Server 2**

# Step 3 – Create a Systemd Service File for Syncthing

Next, you will need to create a systemd service file to manage the Syncthing service on both servers.

On **server1**, create a systemd service file with the following command:

```
nano /etc/systemd/system/syncthing@.service
```

Add the following lines:

```
[Unit]
Description=Syncthing - Open Source Continuous File Synchronization for %I
Documentation=man:syncthing(1)
After=network.target

[Service]
User=%i
ExecStart=/usr/bin/syncthing -no-browser -gui-address="server1-ip-address:8384" -no-r
Restart=on-failure
SuccessExitStatus=3 4
RestartForceExitStatus=3 4

[Install]
WantedBy=multi-user.target
```

Save and close the file when you are finished.

On **server2**, create a systemd service file with the following command:

```
nano /etc/systemd/system/syncthing@.service
```

Add the following lines:

```
[Unit]
Description=Syncthing - Open Source Continuous File Synchronization for %I
Documentation=man:syncthing(1)
After=network.target

[Service]
User=%i
ExecStart=/usr/bin/syncthing -no-browser -gui-address="server2-ip-address:8384" -no-r
Restart=on-failure
SuccessExitStatus=3 4
RestartForceExitStatus=3 4

[Install]
WantedBy=multi-user.target
```

Save and close the file when you are finished. Next, reload the systemd daemon and

start the Syncthing service as a root user **on both servers** with the following command:

```
systemctl daemon-reload
systemctl start syncthing@root
```

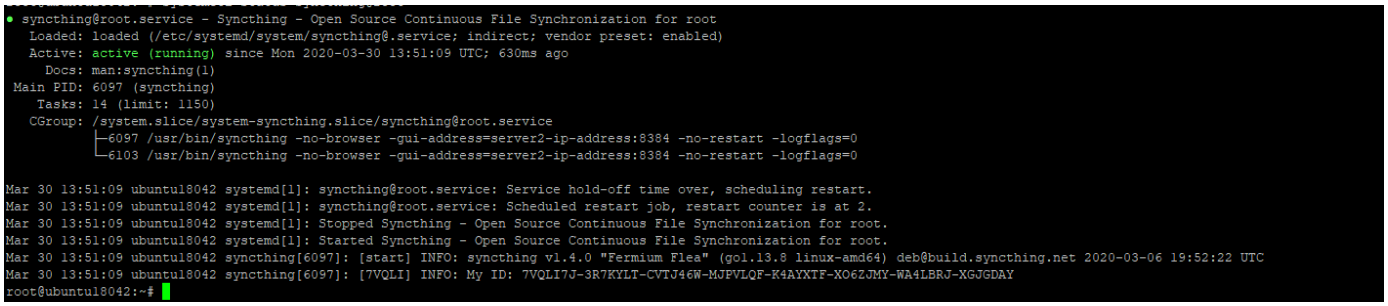
Next, enable the Syncthing service to start after system reboot with the following command:

```
systemctl enable syncthing@root
```

Next, verify the status of the Syncthing service with the following command:

```
systemctl status syncthing@root
```

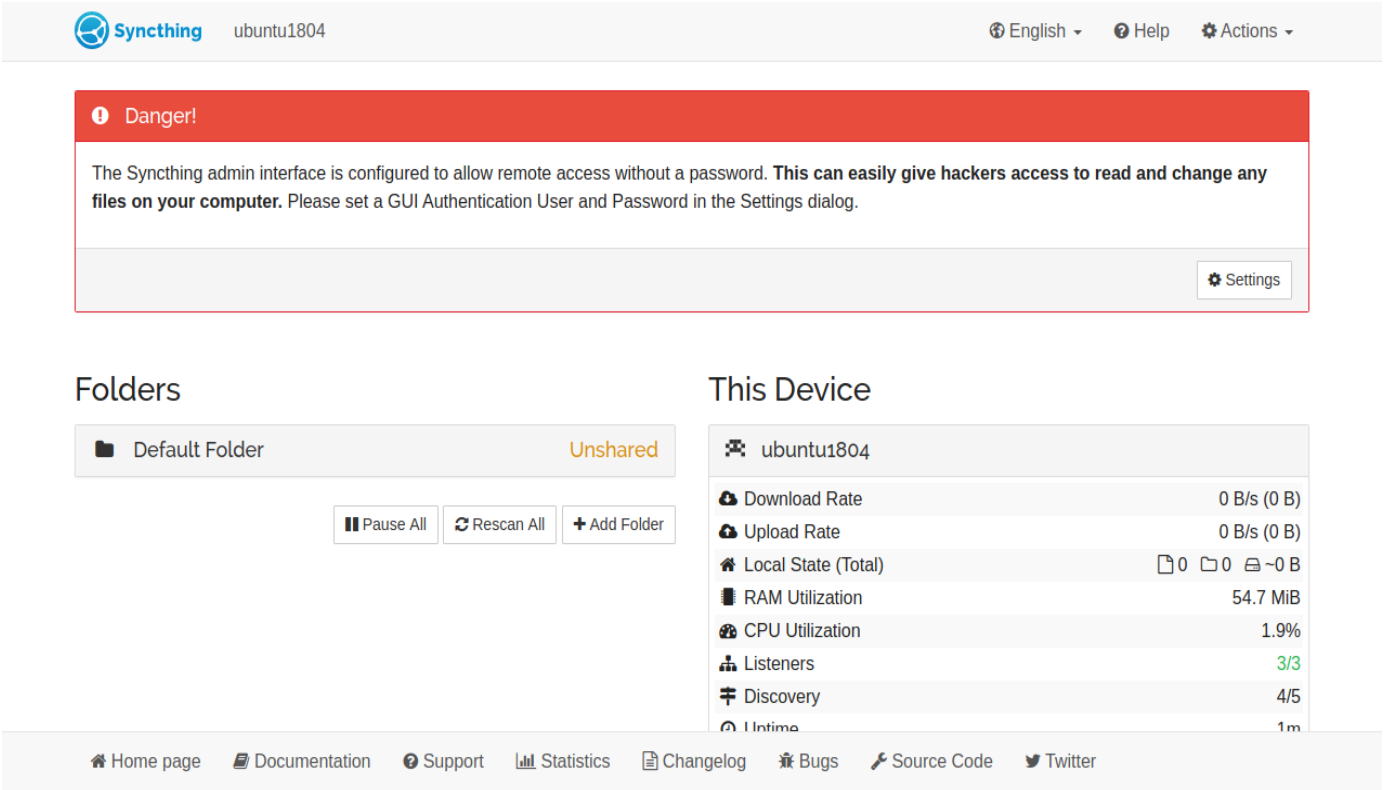
You should get the following output:




At this point, Syncthing service is started and listening on port 8384.

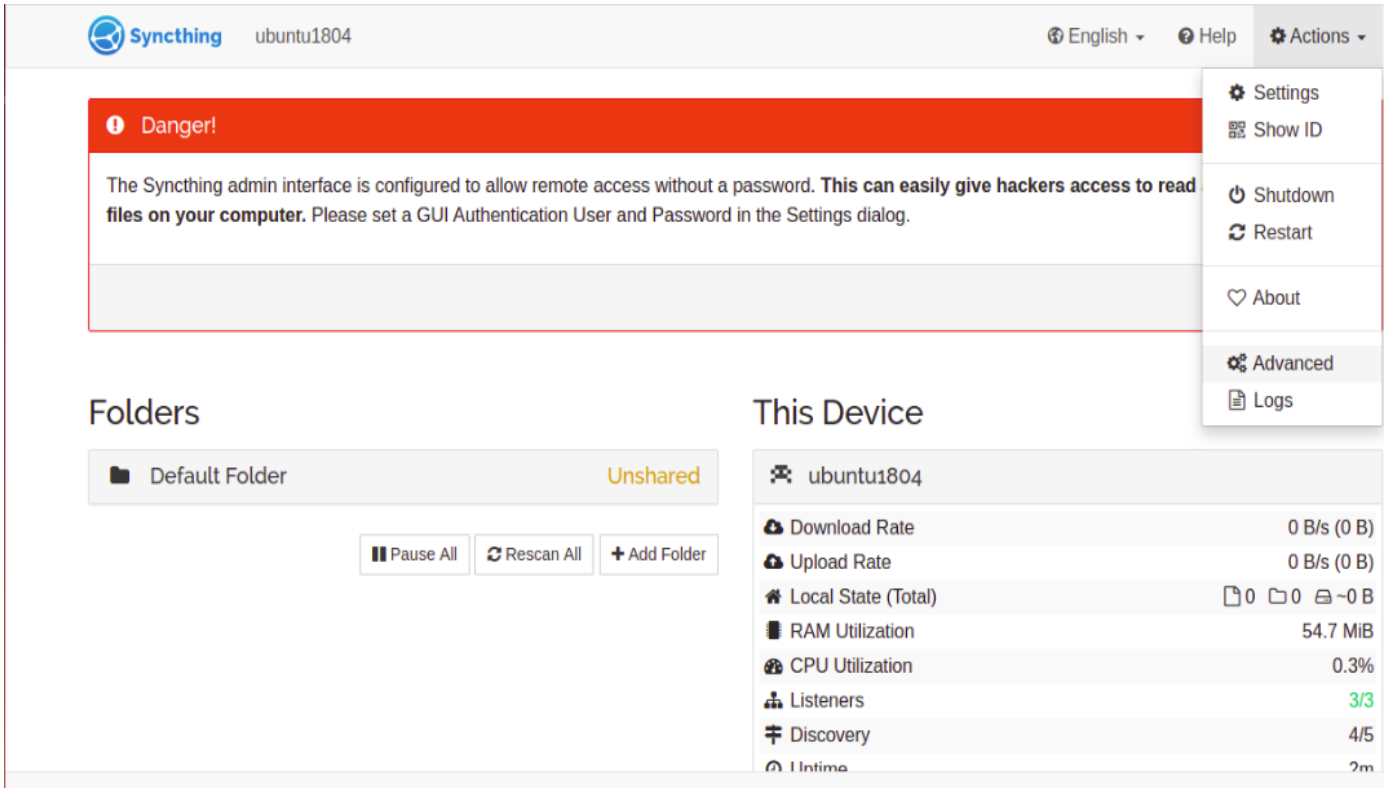
# Step 4 – Access Syncthing Web Interface

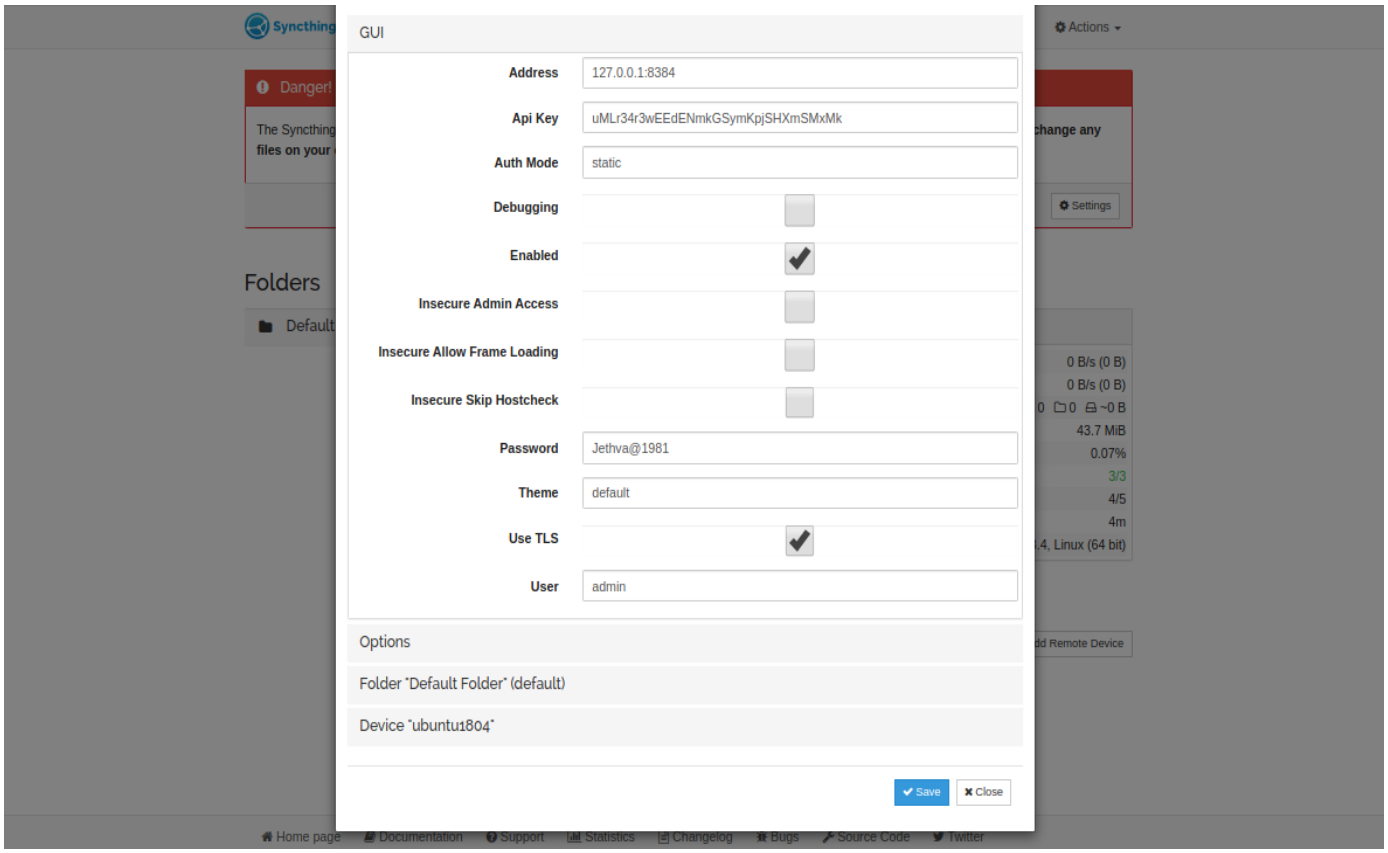
Now, open your web browser and access the Syncthing web UI using the URL http://server1-ip-address:8384 (http://server1-ip-address:8384/). You will be redirected to the Syncthing web interface as shown below:



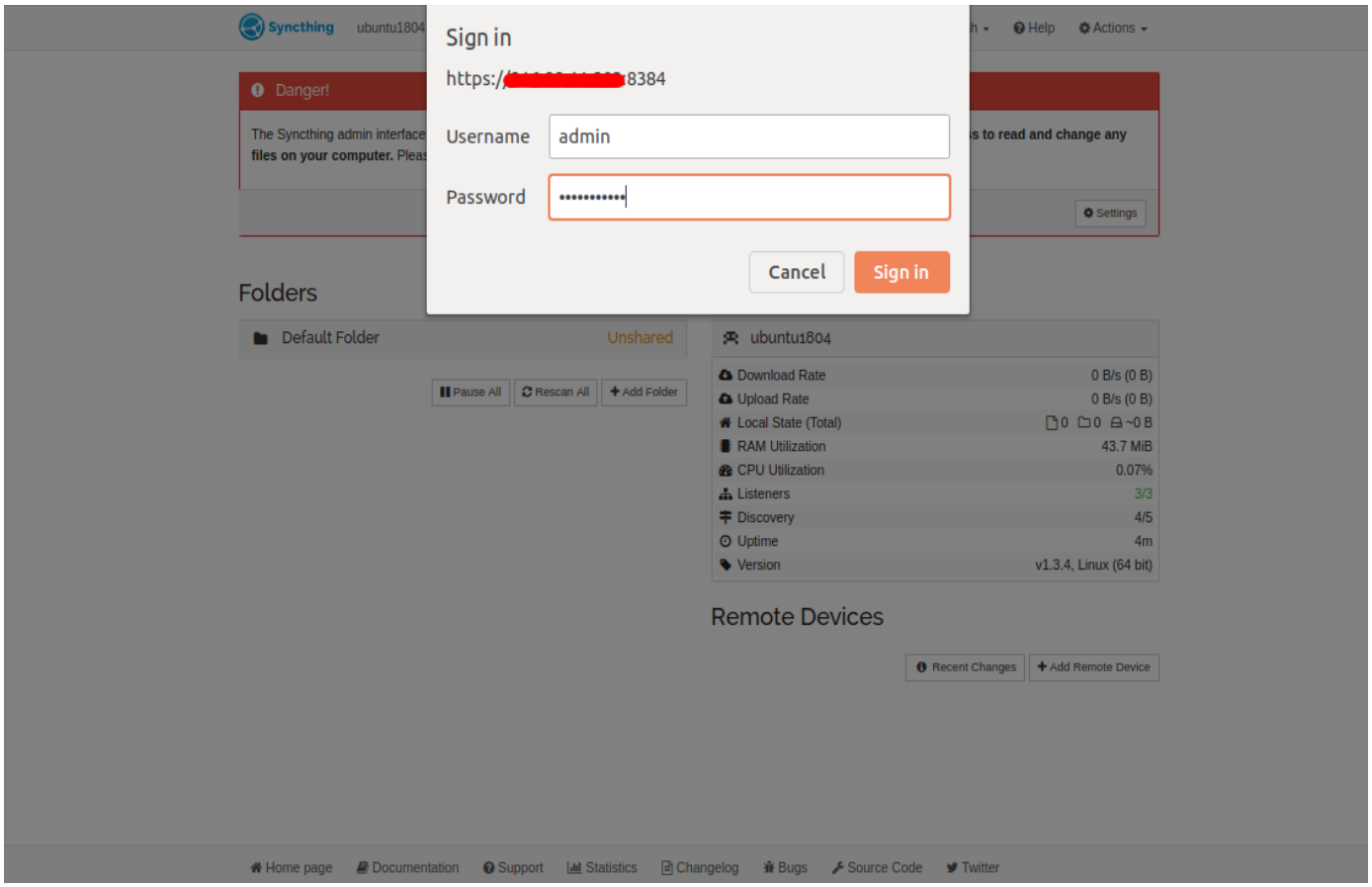

By default, the Syncthing web interface can be accessed without username and password, so it is a good idea to set an admin user and password for Syncthing.

To do so, click on the **Actions => Advanced** in the top-right pane. You should see the following page:

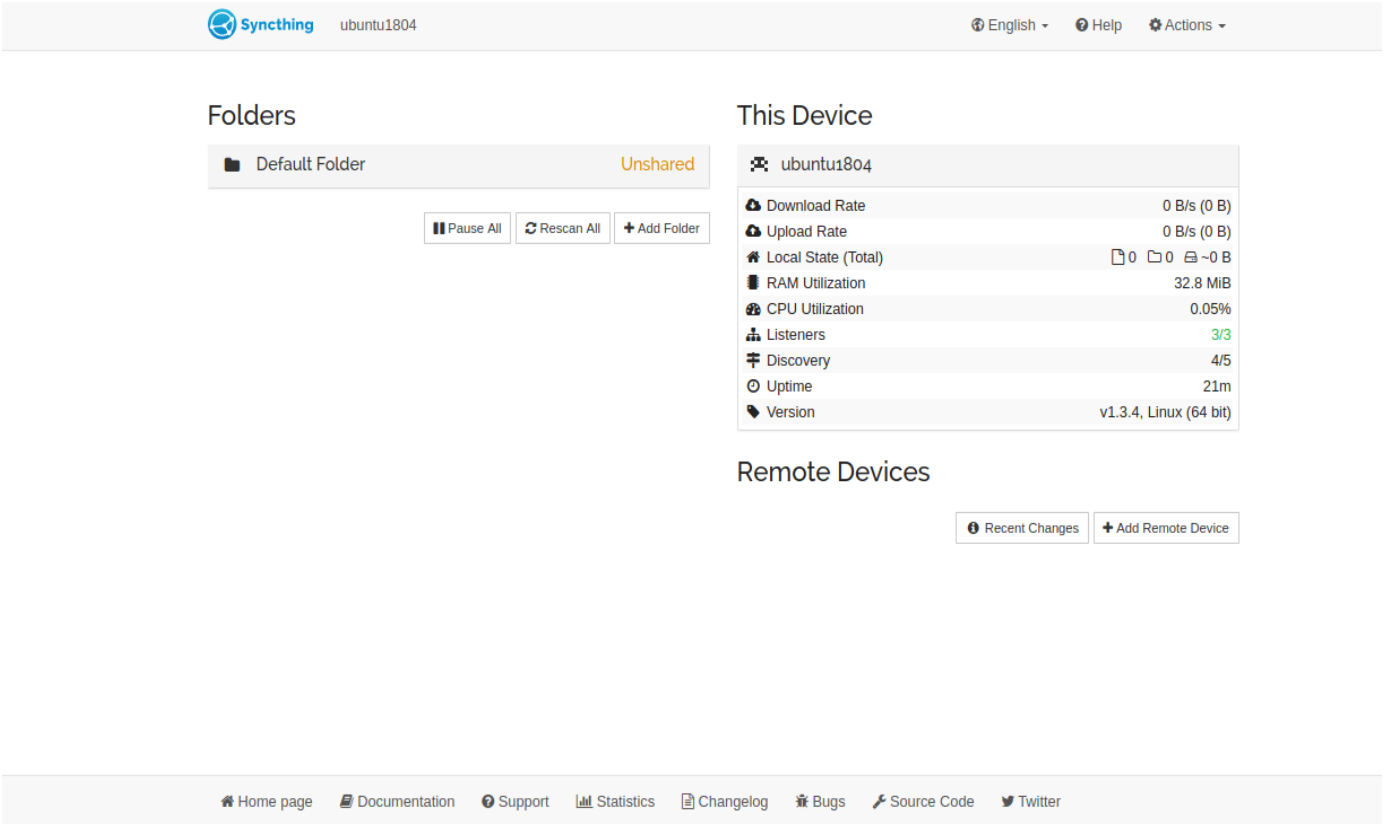

Syncthing
ubuntu1804
English
Help
Actions
Settings
Show ID
Shutdown
Restart
About
Advanced
Logs
Danger!
The Syncthing admin interface is configured to allow remote access without a password. This can easily give hackers access to read
files on your computer. Please set a GUI Authentication User and Password in the Settings dialog.
Folders
Default Folder
Unshared
Pause All
Rescan All
Add Folder
This Device
ubuntu1804
Download Rate
0 B/s (0 B)
Upload Rate
0 B/s (0 B)
Local State (Total)
0 0 ~0 B
RAM Utilization
54.7 MiB
CPU Utilization
0.3%
Listeners
3/3
Discovery
4/5
Uptime
2m


GUI
Address
127.0.0.1:8384
Api Key
uMLr34r3wEEdENmkGSymKpjSHXmSMxMk
Auth Mode
static
Debugging
Enabled
Insecure Admin Access
Insecure Allow Frame Loading
Insecure Skip Hostcheck
Password
Jethva@1981
Theme
default
Use TLS
User
admin
Options
Folder "Default Folder" (default)
Device "ubuntu1804"
Save
Close
Home page
Documentation
Support
Statistics
Changelog
Bugs
Source Code
Twitter

Now, provide your admin username and password and click on the **Save** button to apply the changes. You should get an authentication prompt for the username and password as shown below:




Provide your admin username and password and click on the **Sign in** button. You should see the following page:




Do the same procedure on the second server to set the admin password.

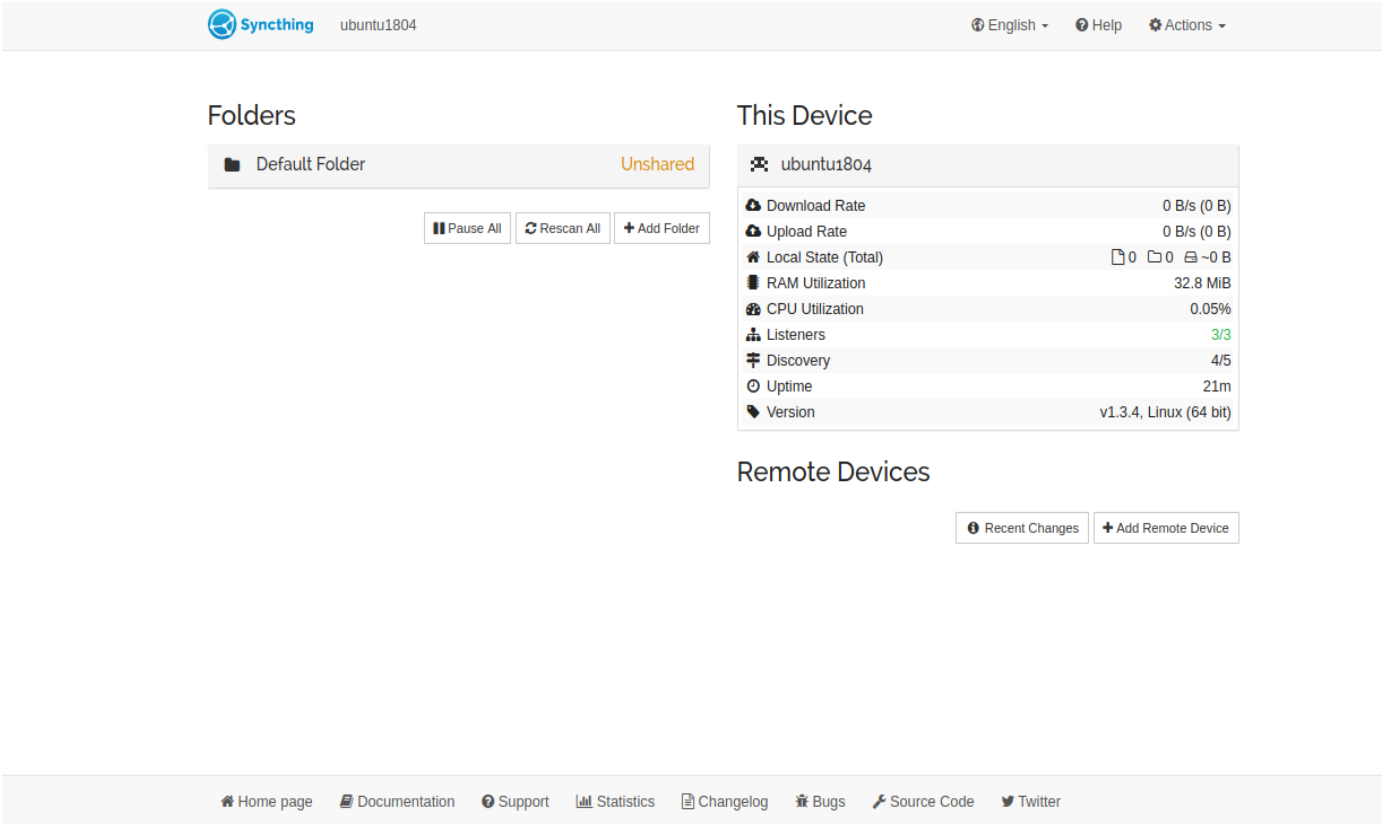
# Step 5 – Sync Data Between Two Servers

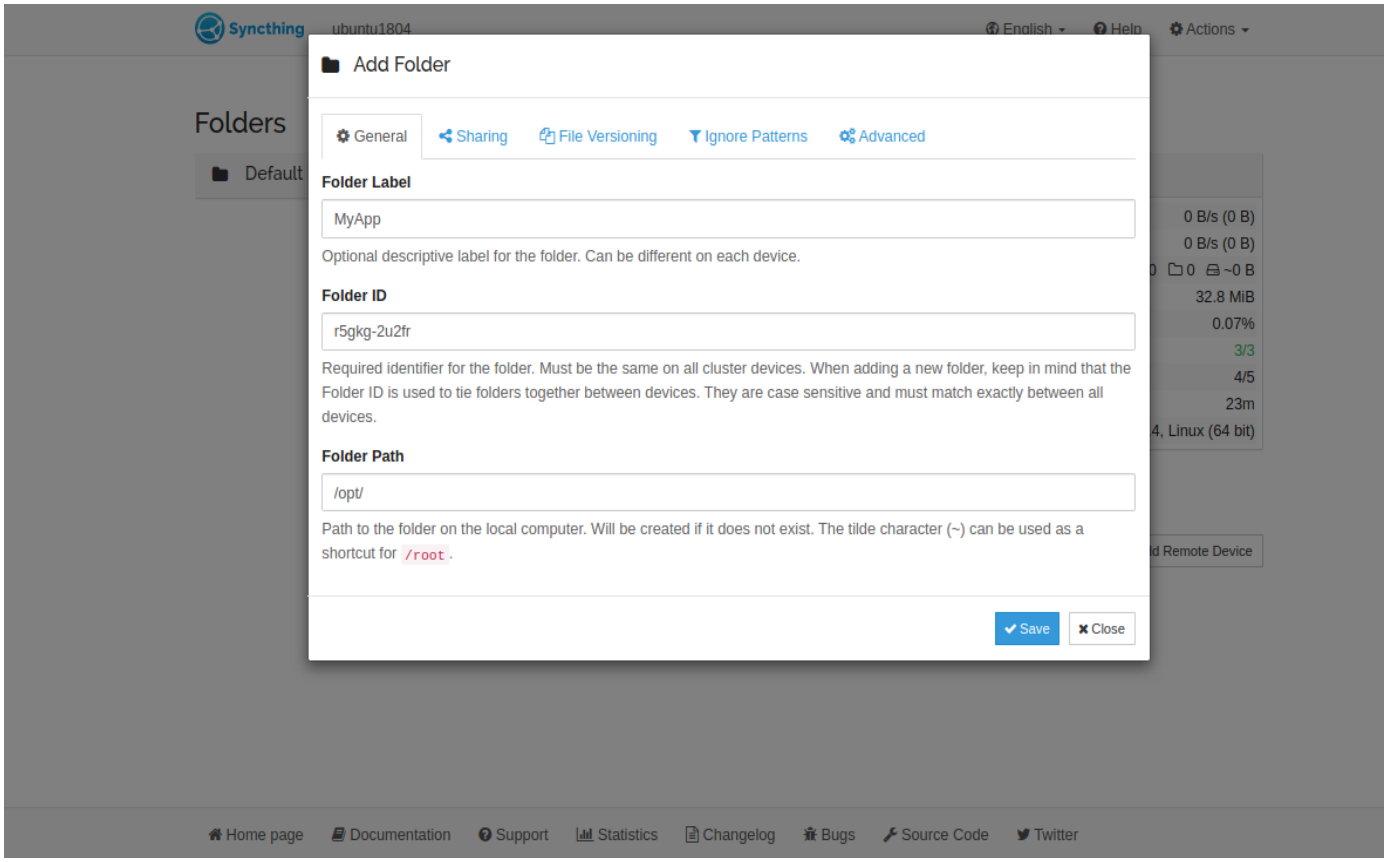
In this section, we will create a shared directory on **server1** and sync it with **server2**.

## Create a Shared Directory

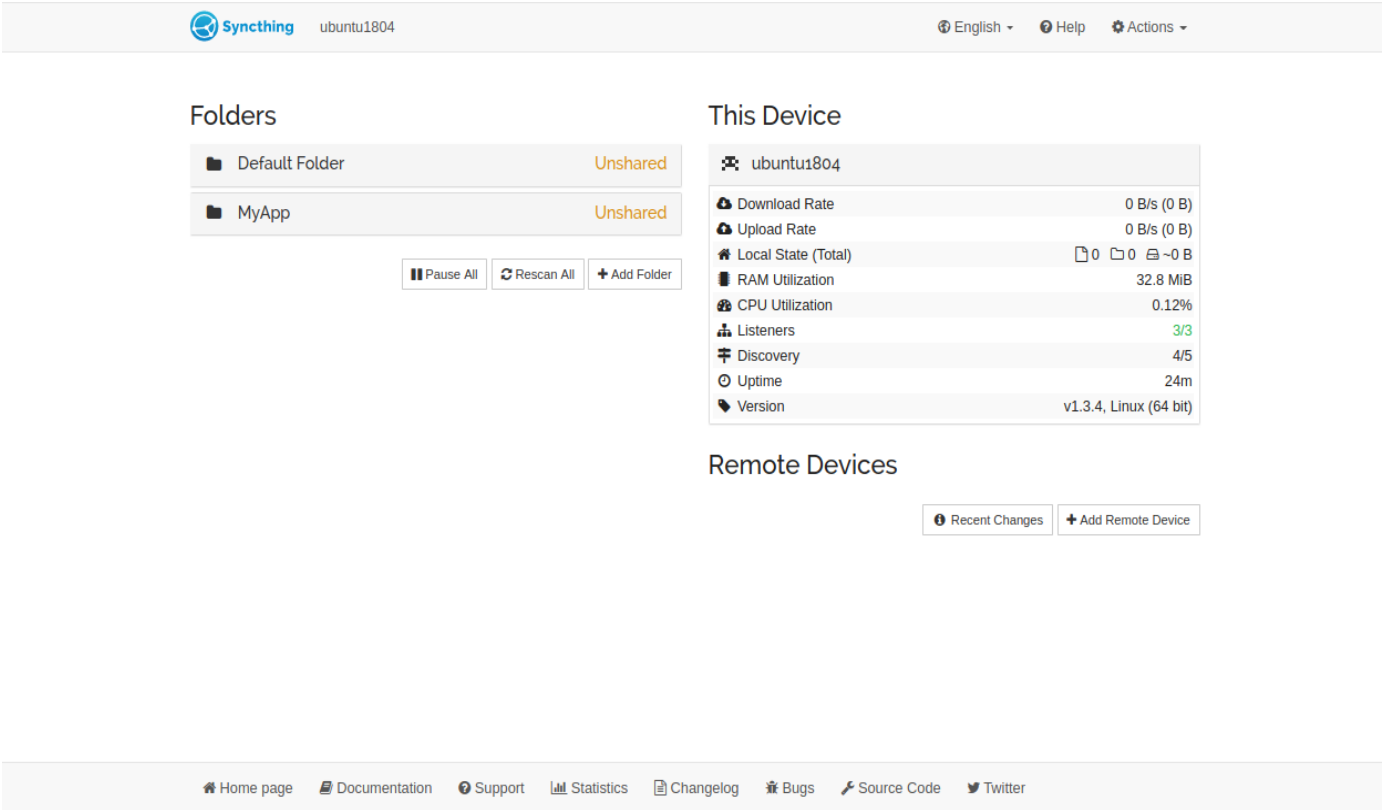
First, you will need to add a folder that you want to share between two servers.

On the server1 dashboard, click on **Add Folder**. You should see the following screen:


Syncthing
ubuntu1804
English
Help
Actions
Folders
Default Folder
Unshared
Pause All
Rescan All
Add Folder
This Device
ubuntu1804
Download Rate
0 B/s (0 B)
Upload Rate
0 B/s (0 B)
Local State (Total)
0 0 ~0 B
RAM Utilization
32.8 MiB
CPU Utilization
0.05%
Listeners
3/3
Discovery
4/5
Uptime
21m
Version
v1.3.4, Linux (64 bit)
Remote Devices
Recent Changes
Add Remote Device
Home page
Documentation
Support
Statistics
Changelog
Bugs
Source Code
Twitter




Provide your folder name, folder ID, and the path of the folder and click on the **Save** button. Once the folder has been created, you should see the following screen:

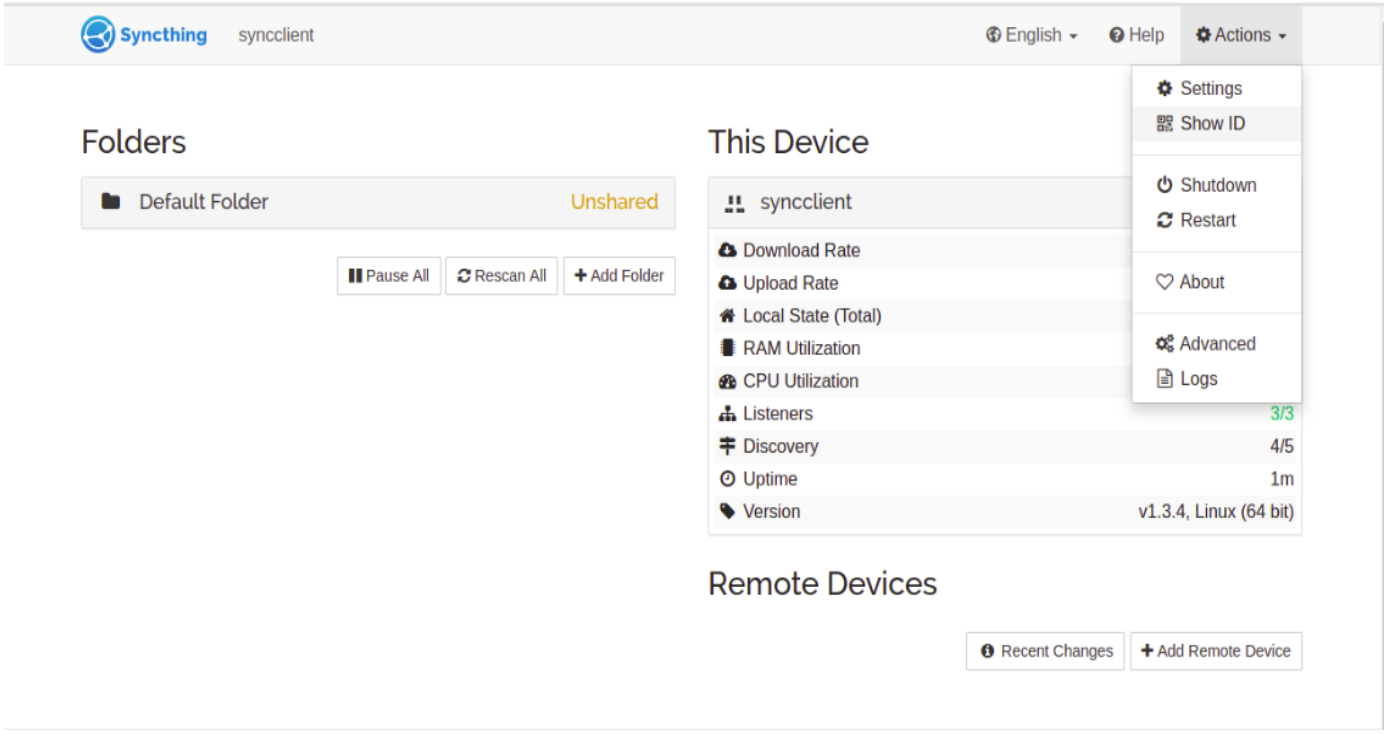


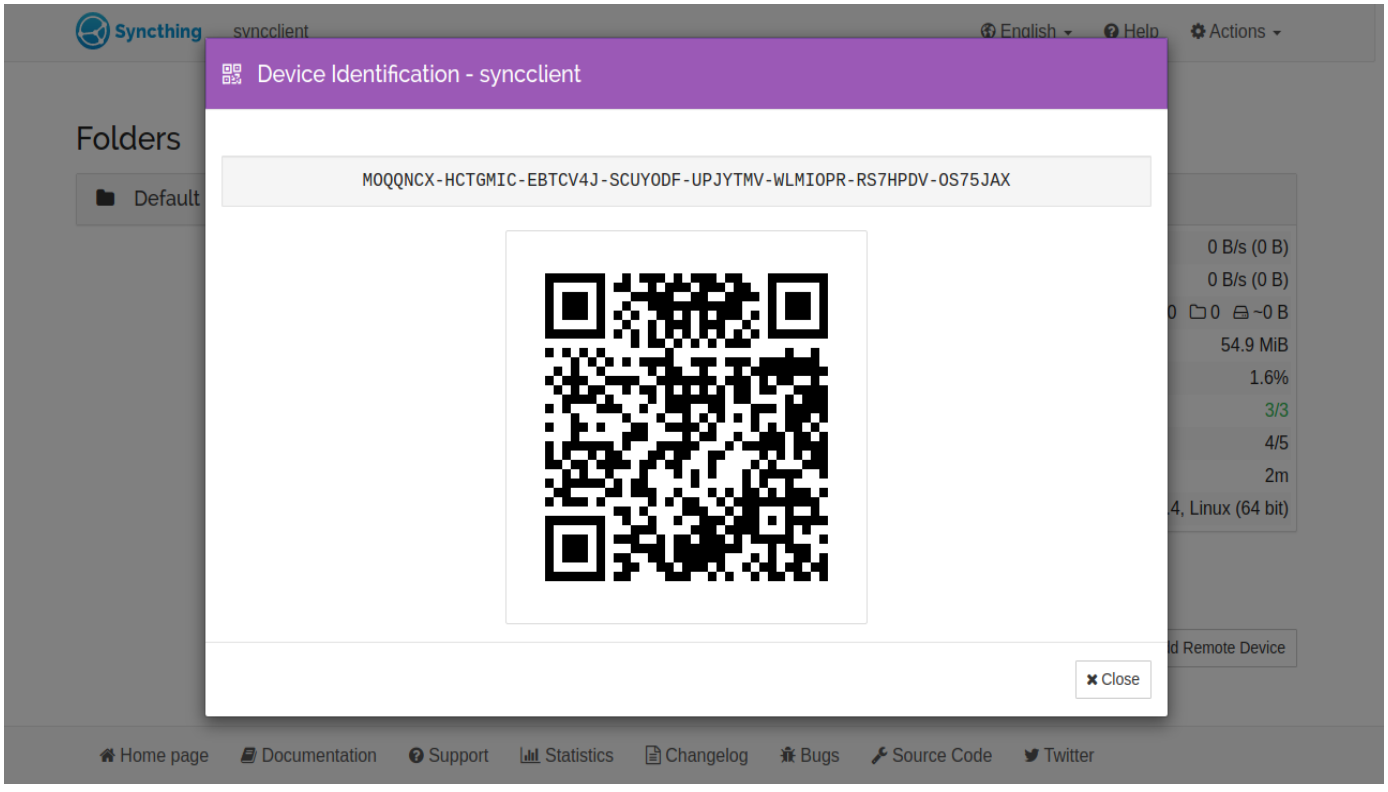

## Sync Device ID

In order to get your two servers to talk to each other, you will need to exchange device IDs with other servers.

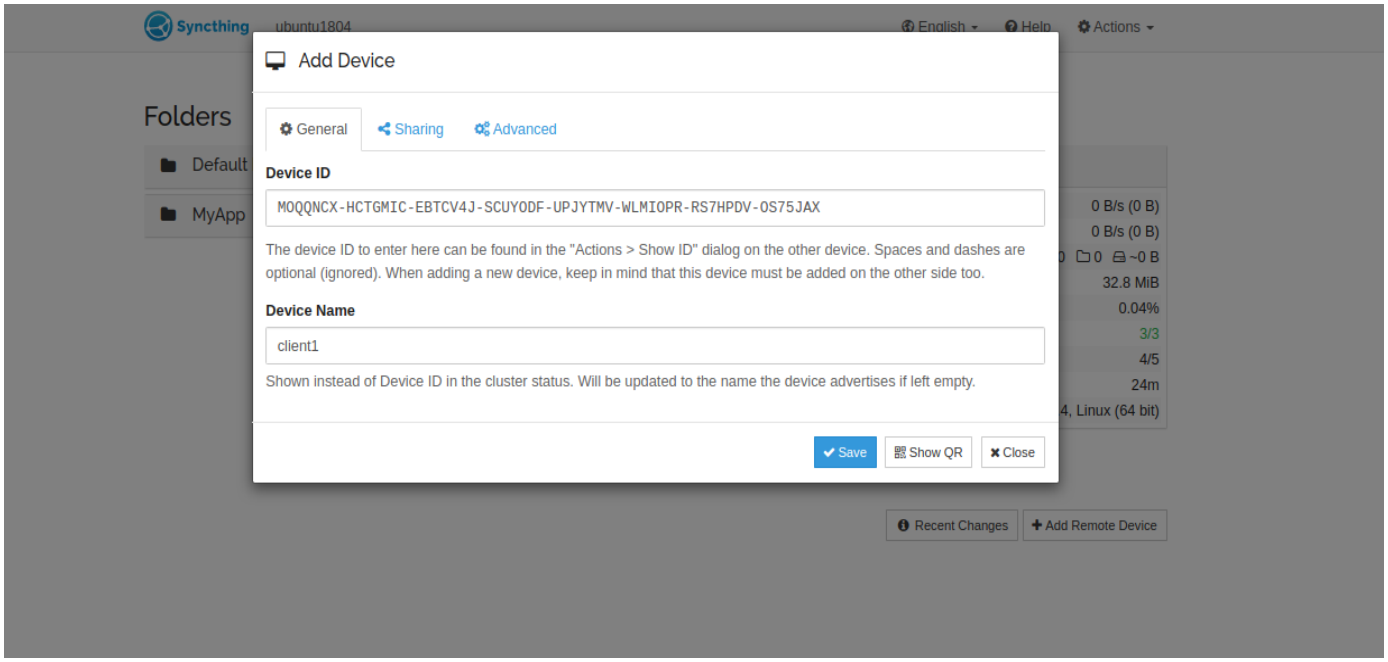
First, you will need to find the device ID of the second server.

On the **server2** dashboard, click on the **Actions => Show ID** to obtain Device ID as shown below:

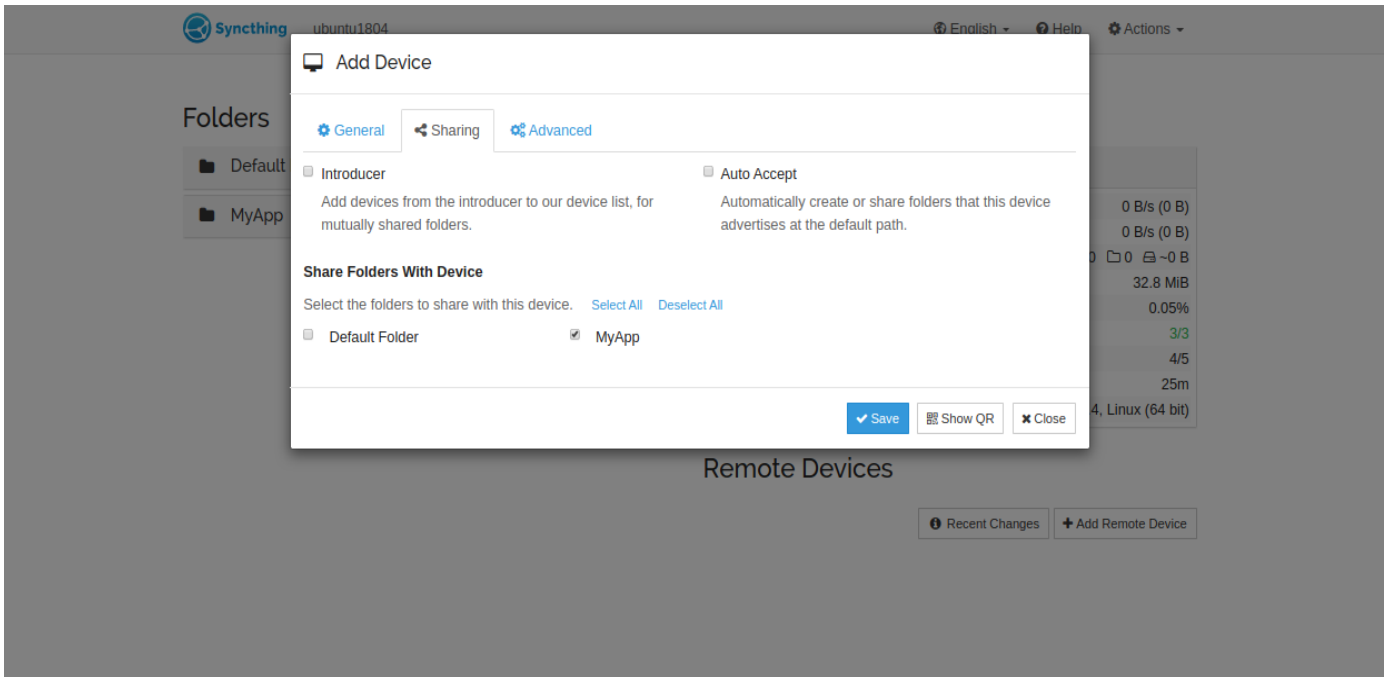



On the **server1** dashboard, click on **Add Remote Device** as shown below:

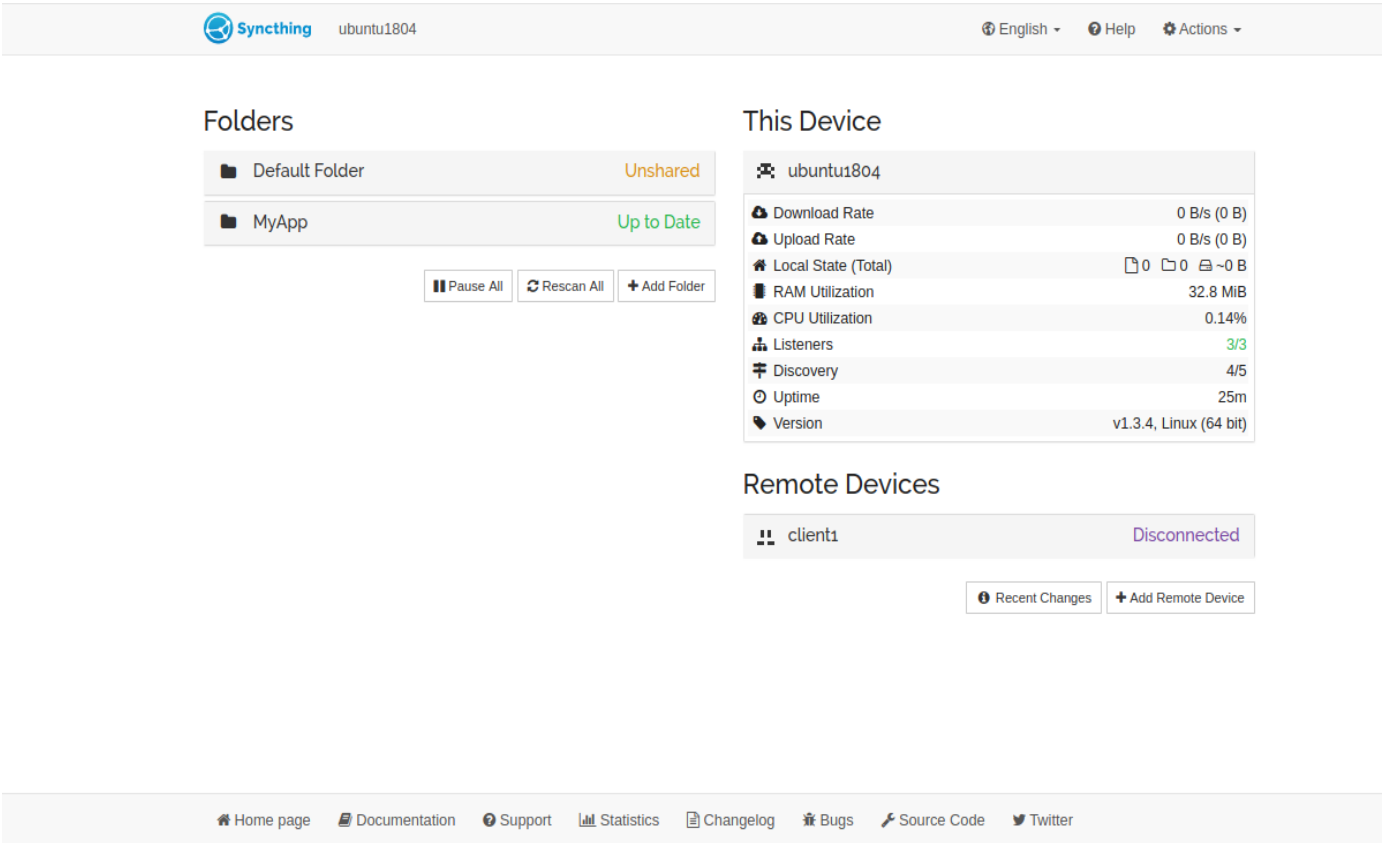



Provide **server2** device ID, Device Name and click on the **Sharing** tab. You should see the following page:

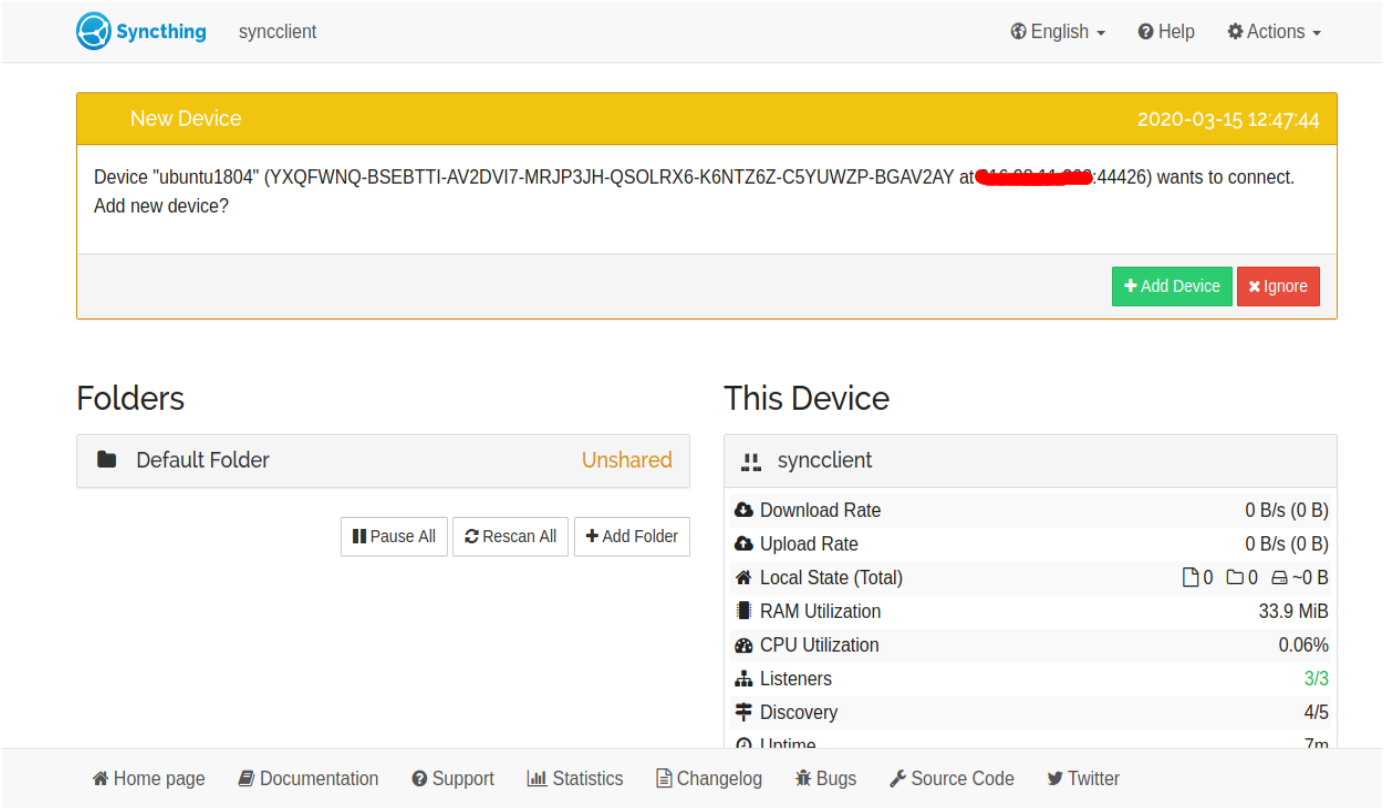



Select a directory that you created earlier and click on the **Save** button. You should see

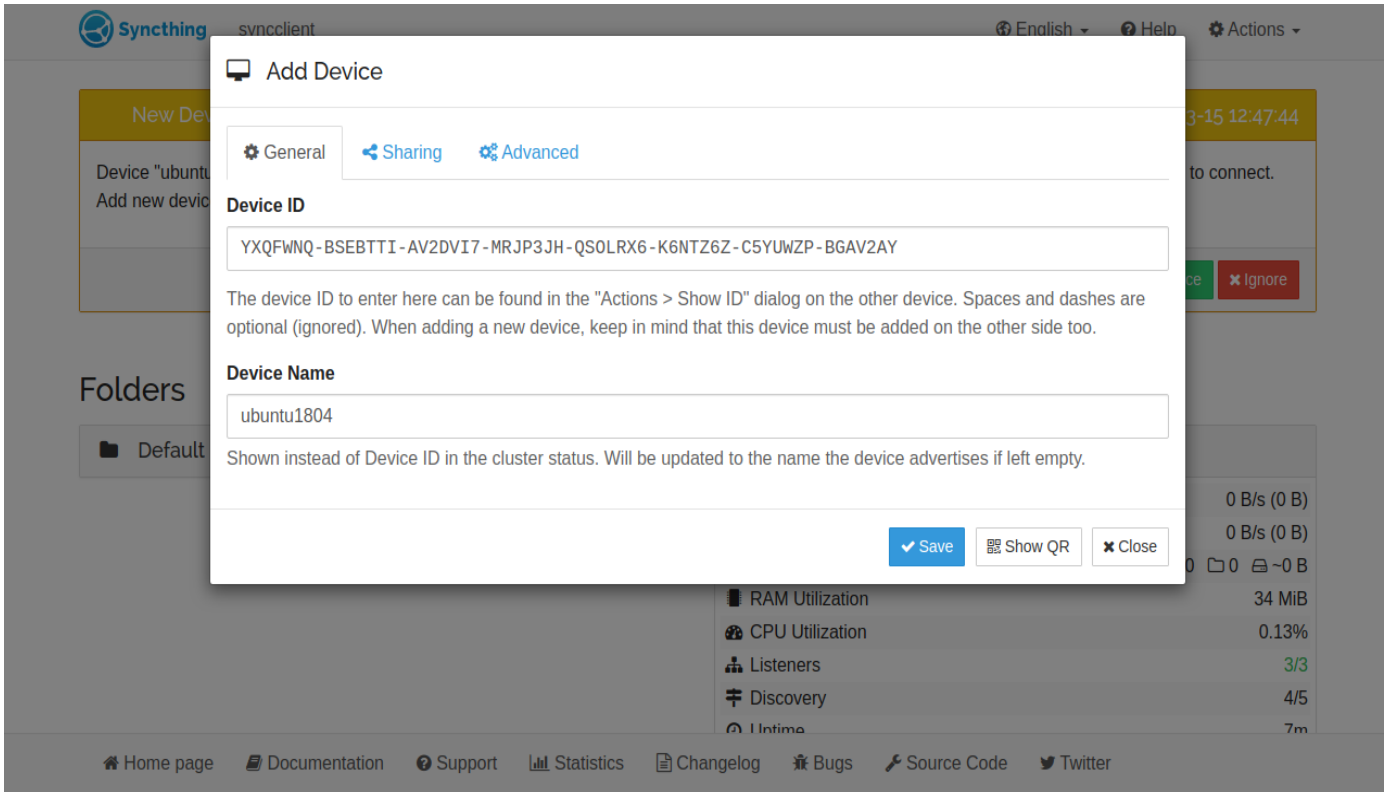
the following page:



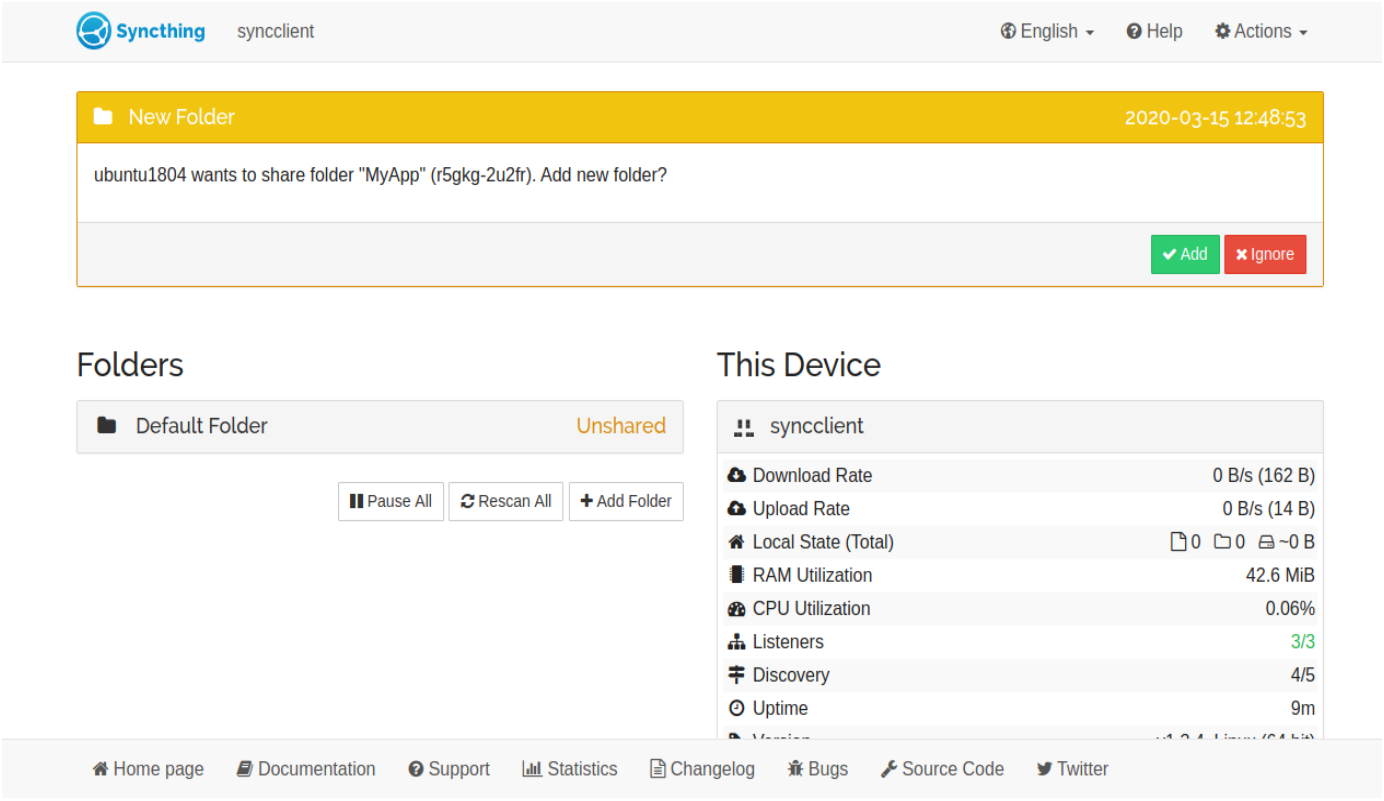

On the **Server2** dashboard, refresh the page. You should see the following page:



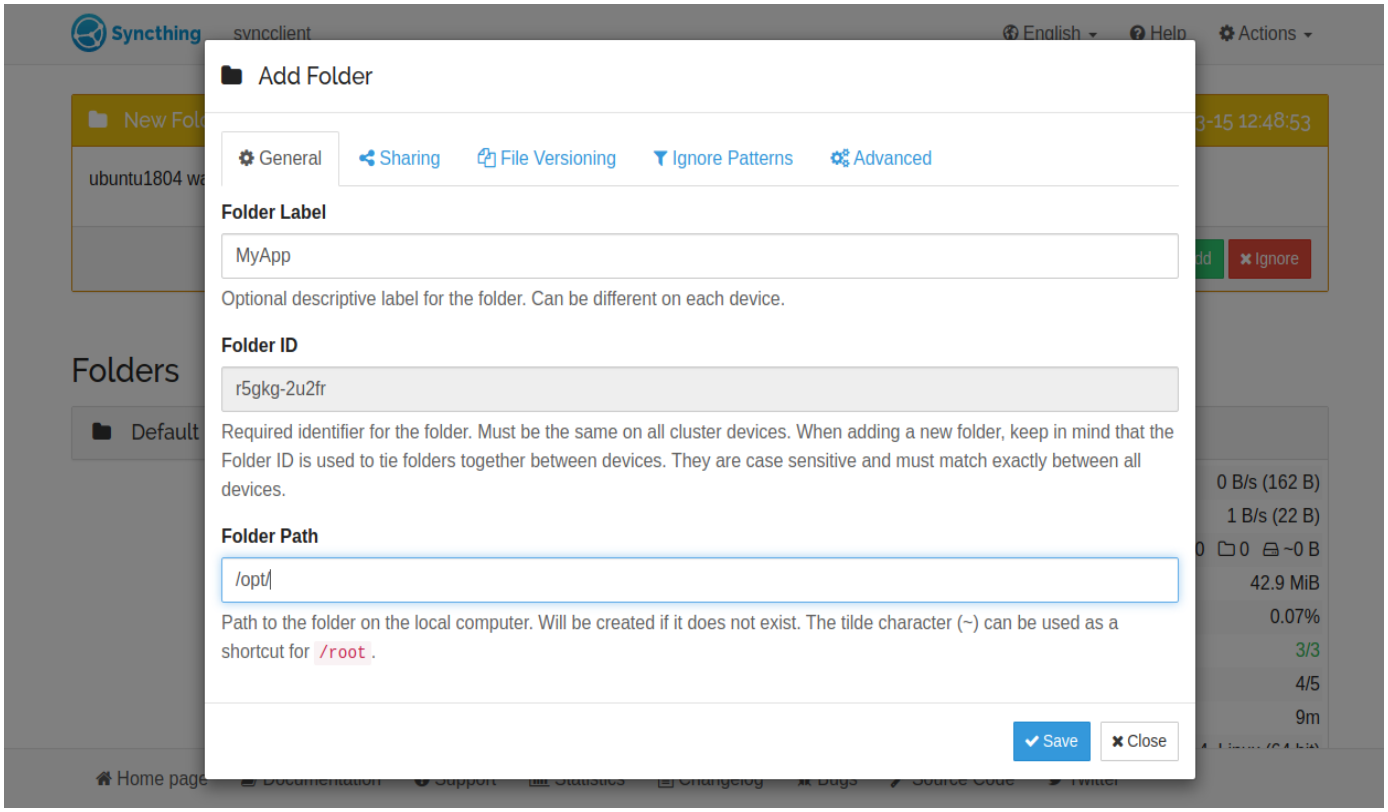

Click on the **Add Device** button to add the Server1 device ID to Server2. You should see the following page:



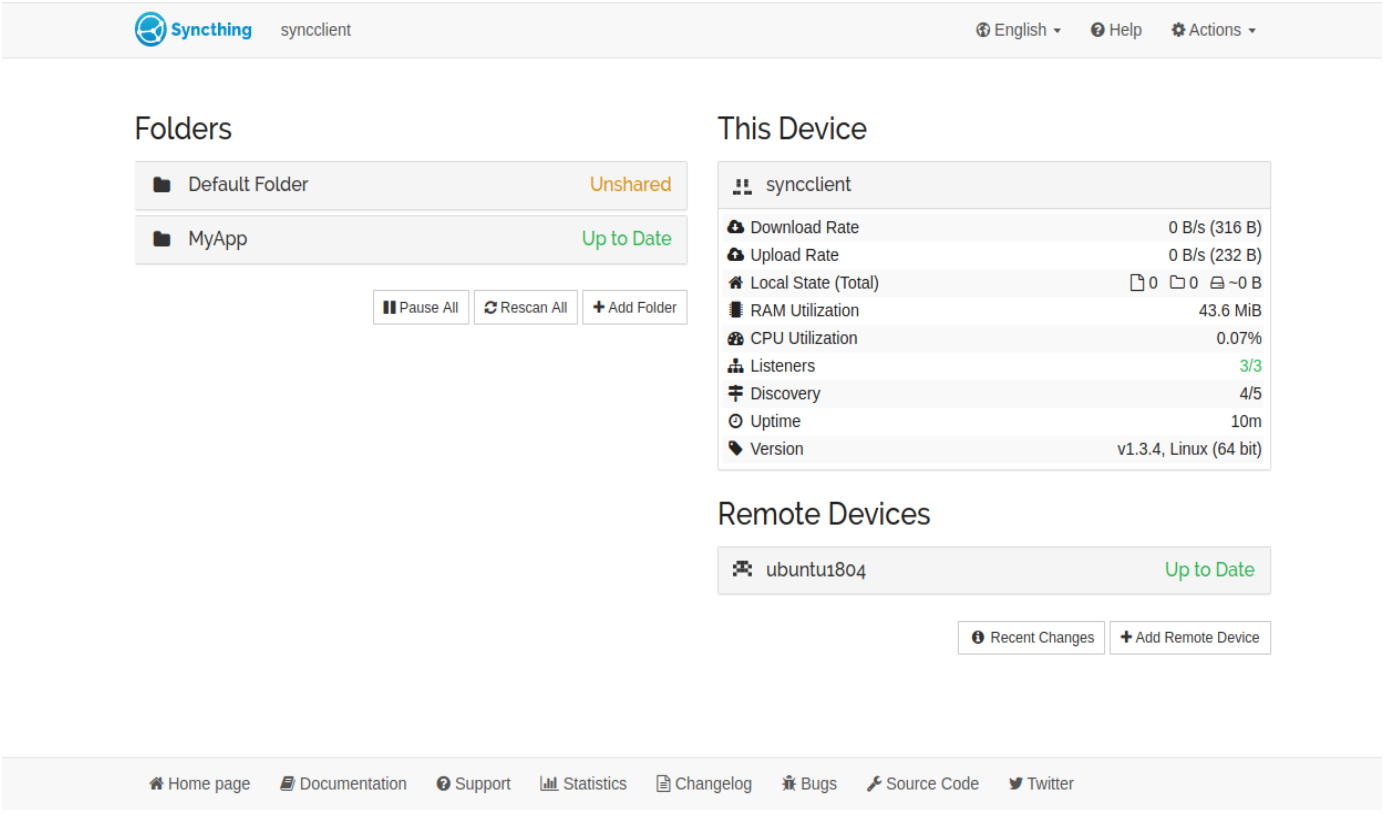

Click on the **Save** button to add the Server1 device ID to Server2. You will be asked whether you want to add folder shared on Server1 as shown below:



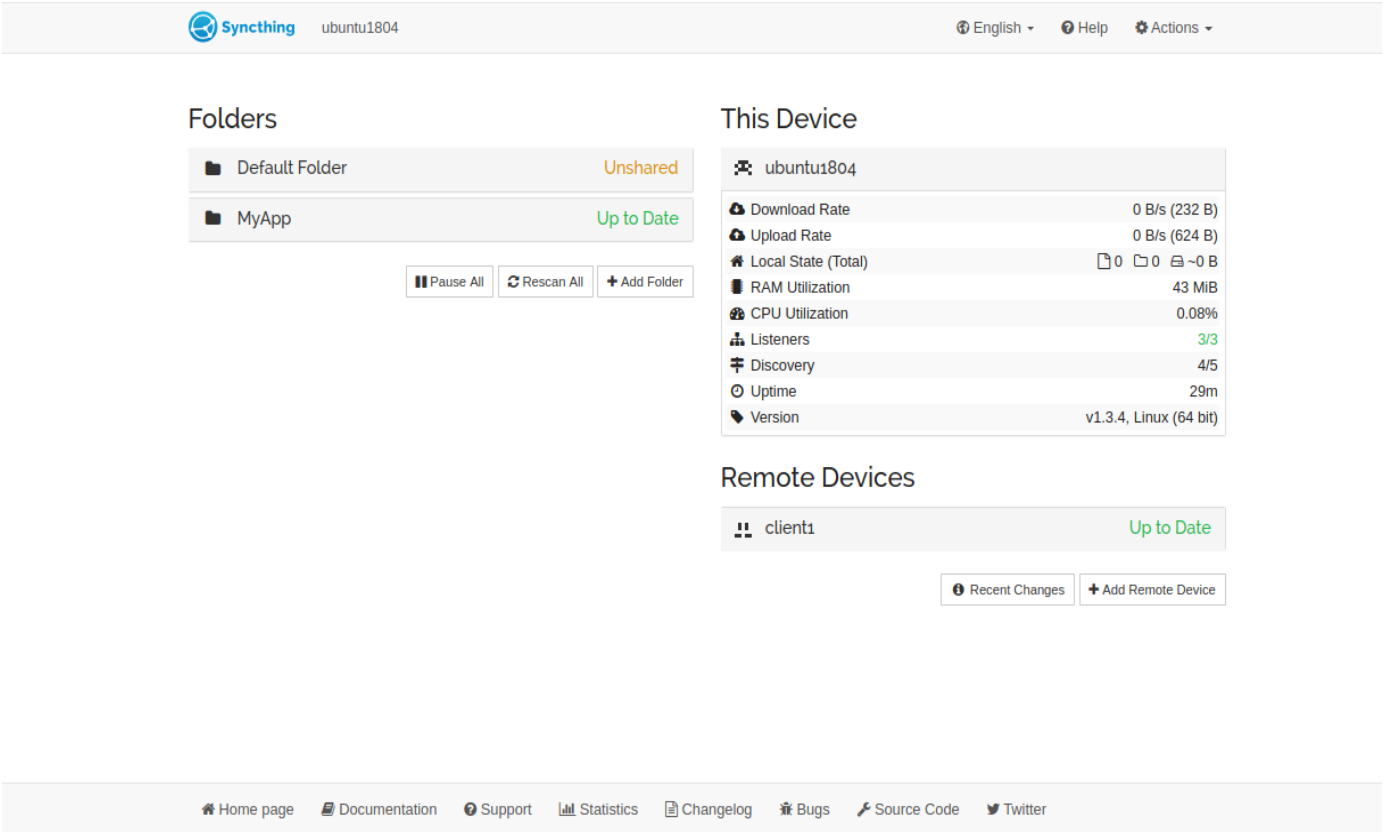

Click on the **Add** button. You should see the following page:




Provide Folder label, Folder ID, Folder path and click on the **Save** button. You should see that **server1** has been added to **server2** in the following page:




On the server1 dashboard, refresh the page and you should see that server2 has been added to server1 in the following page:




At this point, both servers are connected and syncing the directory /opt/MyApp. Now, any changes made in the /opt/MyApp directory will be replicated to the other server.

# Conclusion

In the above guide, you learned how to install and configure the Syncthing service on Ubuntu 18.04 server. You also learned how to sync a directory between two servers. You can now add an additional directory or server to sync. Try it today on VPS Hosting (https://www.atlantic.net/vps-hosting/) from Atlantic.Net!

< Older post (https://www.atlantic.net/vps-hosting/how-to-set-up-gitlab-on-centos-8/)

Newer post > (https://www.atlantic.net/vps-hosting/how-to-install-mysql-8-0-on-ubuntu-18-04/)


protection/) (/press-releases/atlantic-net-offers-hipaa-audited-hosting-solution-to-give-medical-companies-and-patients-protection/)

---

**Recent Posts**

Detect Linux Security Holes and Rootkits with Rkhunter on Ubuntu 20.04 (https://www.atlantic.net/dedicated-server-hosting/detect-linux-security-holes-and-rootkits-with-rkhunter-on-ubuntu-20-04/)

Top 10 DSP Providers (https://www.atlantic.net/vps-hosting/top-10-dsp-providers/)

Top 10 HIPAA Web Conference Software Companies (https://www.atlantic.net/hipaa-compliant-hosting/top-10-hipaa-web-conference-software-companies/)

How to Reset a MySQL Root Password (https://www.atlantic.net/dedicated-server-hosting/how-to-reset-a-mysql-root-password/)

How to Find a Data Center for Edge Computing Colocation (https://www.atlantic.net/orlando-colocation-hosting-data-center/how-to-find-a-data-center-for-edge-computing-colocation/)

ALSO ON **ATLANTIC.NET**

**Set Up a Mail Server with Postfix, ...**

10 months ago • 4 comments

In this tutorial, we will show you how to set up a full-featured Mail server with …

**How to Add an Additional IP to Your ...**

a year ago • 1 comment

Ubuntu allows you to add multiple virtual IP addresses on a single network …

**How to Setup MariaDB Master Slave ...**

a year ago • 1 comment

MariaDB is a popular, free, open-source relational database management …

**How to Linux S**

8 months

In this hc you throu SSH into

**CLOUD PLATFORM (/CLOUD-PLATFORM/)**

Virtual Cloud Servers (https://www.atlantic.net/vps-hosting/)
VPS Pricing & Plans (https://www.atlantic.net/vps-hosting/pricing/)
Dedicated Hosts (https://www.atlantic.net/dedicated-server-hosting/)
Secure Block Storage (https://www.atlantic.net/cloud-platform/block-storage/)
Virtual Private Cloud (https://www.atlantic.net/virtual-private-cloud/)
Managed Private Cloud (https://www.atlantic.net/managed-private-cloud/)
Backup & Replication (https://www.atlantic.net/cloud-platform/backups/)

**DEDICATED HOSTING (/DEDICATED-SERVER-HOSTING/)**

Dedicated Server Hosting (https://www.atlantic.net/dedicated-server-hosting/)
Managed Private Cloud (https://www.atlantic.net/managed-private-cloud/)
Virtual Private Cloud (https://www.atlantic.net/virtual-private-cloud/)
Colocation Hosting (https://www.atlantic.net/orlando-colocation-hosting-data-center/)
Disaster Recovery (https://www.atlantic.net/disaster-recovery/)
Managed Services (https://www.atlantic.net/managed-services/)

**COMPLIANCE HOSTING (/COMPLIANCE-HOSTING/)**

HIPAA Compliant Hosting (https://www.atlantic.net/hipaa-compliant-hosting/)
HIPAA Cloud (https://www.atlantic.net/hipaa-compliant-cloud-hosting-services/)
HIPAA WordPress (https://www.atlantic.net/hipaa-compliant-wordpress-hosting/)
Pharma & BioTech Solutions (https://www.atlantic.net/life-sciences-pharma-biotech/)
PCI Compliant Hosting (https://www.atlantic.net/pci-hosting/)

**ABOUT US (/ABOUT-US/)**

Why Atlantic.Net (https://www.atlantic.net/hosting-services-provider/)
Our Certifications (https://www.atlantic.net/hosting-services-provider/certifications-and-partnerships/)
Our Data Centers (https://www.atlantic.net/hipaa-data-centers/)
Media Press Room (https://www.atlantic.net/press-room/)
Partner Program (https://www.atlantic.net/partners/)
Career Opportunities (/careers/)
Contact Us (https://www.atlantic.net/about-us/corporate-contact/)

**SUPPORT (/SUPPORT/)**

Always Available Support (https://www.atlantic.net/hosting-services-provider/support-team/)
100% Uptime SLA (https://www.atlantic.net/hosting-services-provider/100-uptime-sla/)
Network Status (https://status.atlantic.net/)
Speed Test (https://www.atlantic.net/speed-test/)
Service Policies (https://www.atlantic.net/service-policies/)
Privacy Policy (https://www.atlantic.net/service-policies/privacy-policy/)
Cookie Settings


**NEW YORK, NY (/HIPAA-DATA-CENTERS/NEW-YORK-HOSTING/)**

100 Delawanna Ave, Suite 1

Clifton, NJ 07014

United States

**SAN FRANCISCO, CA (/HIPAA-DATA-CENTERS/SAN-FRANCISCO-CALIFORNIA-HOSTING/)**

2820 Northwestern Pkwy,

Santa Clara, CA 95051

United States

**DALLAS, TX (/HIPAA-DATA-CENTERS/DALLAS-TEXAS-HOSTING/)**

2323 Bryan Street,

Dallas, Texas 75201

United States

**ASHBURN, VA (/HIPAA-DATA-CENTERS/ASHBURN-VIRGINIA-HOSTING/)**

1807 Michael Faraday Ct,

Reston, VA 20190

United States

**ORLANDO, FL (/ORLANDO-COLOCATION-HOSTING-DATA-CENTER/)**

440 W Kennedy Blvd, Suite 3

Orlando, FL 32810

United States

**TORONTO, CANADA (/HIPAA-DATA-CENTERS/TORONTO-CANADA-HOSTING/)**

20 Pullman Ct, Scarborough,

Ontario M1X 1E4

Canada

**LONDON, UK (/HIPAA-DATA-CENTERS/LONDON-UK-HOSTING/)**

14 Liverpool Road, Slough,

Berkshire SL1 4QZ

United Kingdom

**SALES: 888-618-3282**

**INTL: +1-321-206-3734**

| | | | |
|---|---|---|---|
| (http | (http | (http | (http |
| s://w | s://t | s://w | s://w |
| ww.f | witt | ww.l | ww.y |
| aceb | er.co | inke | outu |
| ook. | m | din.c | be.c |
| com | /atla | om | om |
| /Atla | ntic | /com | /use |
| ntic | net) | pany | r/Atl |
| Net) | | /atla | antic |

ntic. Host

net- ing/)

inc.)

**RESOURCES**

- How to Make Storage HIPAA Compliant (/hipaa-compliant-cloud-storage/#make-storage-hipaa-compliant)
- How to Make WordPress HIPAA Compliant (/hipaa-compliant-wordpress-hosting/#Make-WordPress-HIPAA-Compliant)
- How to Make File Sharing HIPAA Compliant (/hipaa-compliant-cloud-storage/hipaa-compliant-file-sharing/)
- How to Make a Database HIPAA Compliant (https://www.atlantic.net/hipaa-compliant-database-hosting/#Make-Database-HIPAA-Compliant)
- How to Make a Website HIPAA Compliant (/hipaa-compliant-hosting/how-to-make-website-hipaa-compliant/)
- How to Become HIPAA Compliant (https://www.atlantic.net/hipaa-compliant-hosting/how-to-become-hipaa-compliant/)
- What is HIPAA Compliant Hosting? (https://www.atlantic.net/hipaa-compliant-hosting/#what-is-hipaa-compliant-hosting)
- What is HIPAA Cloud Hosting? (/hipaa-compliant-cloud-hosting-services/#WhatisHIPAACloud)
- What is HIPAA Compliance? (/hipaa-compliant-hosting/hipaa-compliance-guide-what-is-hipaa/)
- What is Healthcare Hosting? (/hipaa-compliant-hosting/what-is-healthcare-hosting-hipaa/)
- What is the HIPAA Security Rule? (/hipaa-compliant-hosting/what-is-the-hipaa-security-rule-safeguard-checklist)
- What is a HIPAA BAA? (/what-is-baa-hipaa-business-associate-agreement/)
- What is VPS Hosting? (/vps-hosting/#WhatisVPSHosting)
- What is Cloud Hosting? (/what-is-cloud-hosting/)
- What is Colocation Hosting? (/what-is-colocation-hosting/)
- What is VMWare? (/what-is-vmware/)
- What is Server Virtualization? (/what-is-server-virtualization/)
- What is an IIS Server? (/what-is-an-iis-server/)
- What is an Apache Server? (/what-is-an-apache-server/)
- What is MSSQL? (/what-is-mssql/)
- What is Database Hosting? (/what-is-database-hosting/)
- What is Block Storage? (/what-is-block-storage/)