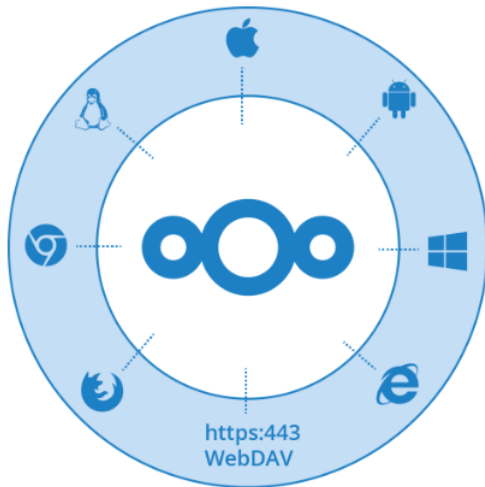




DOCUMENTED BY: KEVIN MA, JOSEPH HARRISON LIM, POULAD ASHRAF POUR, MAMUNUR RAHMAN ON 09/15/2018

WHAT IS NEXTCLOUD?

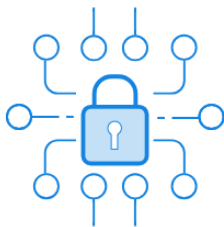


Nextcloud gives you access to all your files wherever you are.

Where are your photos and documents? With Nextcloud **you** pick a server of your choice, at home, in a data center or at a provider. And that is where your files will be. Nextcloud runs on that server, protecting your data and giving you access from your desktop or mobile devices. Through Nextcloud you also access, sync and share your existing data on that FTP drive at school, a Dropbox or a NAS you have at home.

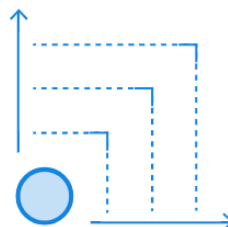
Nextcloud is free, open source and [you can get involved in making it better!](#)

WHY NEXTCLOUD?



Control

Protect, control and monitor data and communication across your company. Guarantee compliance with business and legal requirements. Keep your data on servers you own, at all times. Nothing leaks, not even metadata.



Productivity

Enable productivity across any platform, whether in the office or on the road, to share, collaborate and communicate across organizational boundaries. Nextcloud provides transparent access to data on any storage.



Community

Enjoy constant improvements from a thriving and transparent, entirely open-source community development model, free of lockins or paywalls. Enjoy the benefits of enterprise support when you need it.

NEXTCLOUD SERVER SETUP

To install and setup Nextcloud, you will need to have a few pre-requisites.

PRE-REQUISITES

1. Oracle VirtualBox
2. Virtual Machine running Ubuntu Server (recommended 18.04.1 LTS)
3. Snappy Netcloud (<https://github.com/nextcloud/nextcloud-snap>)

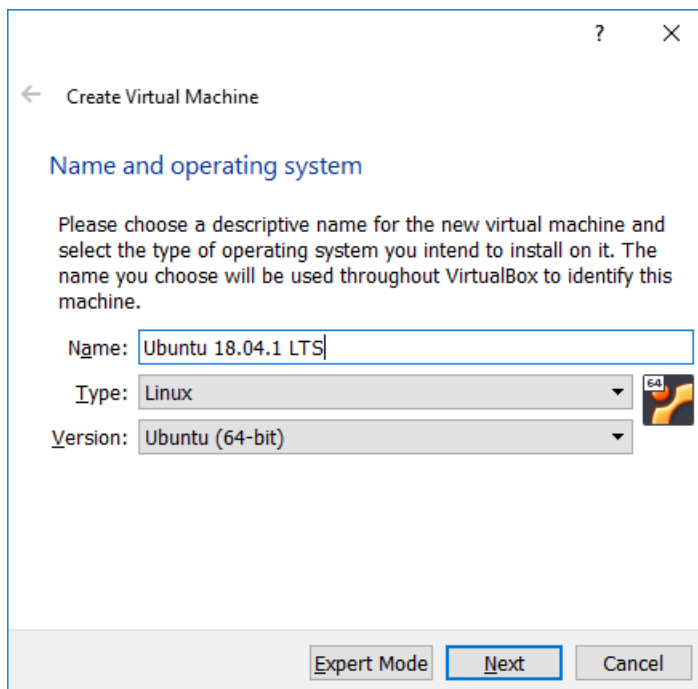
SNAPPY NETCLOUD

Nextcloud server packaged as a snap. It consists of:

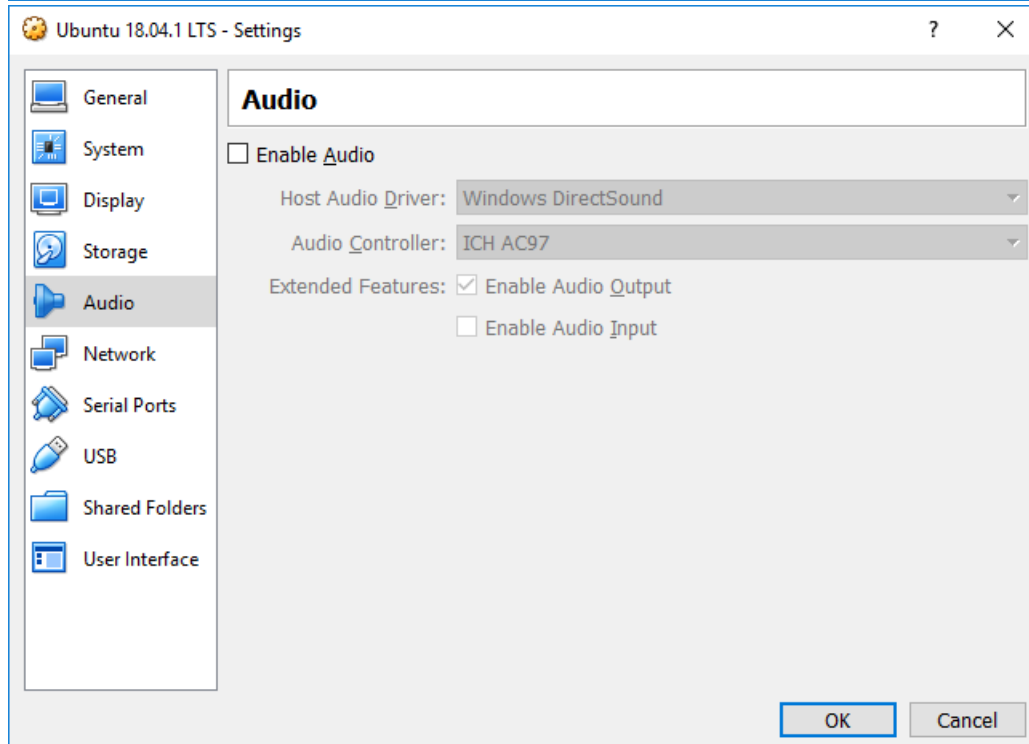
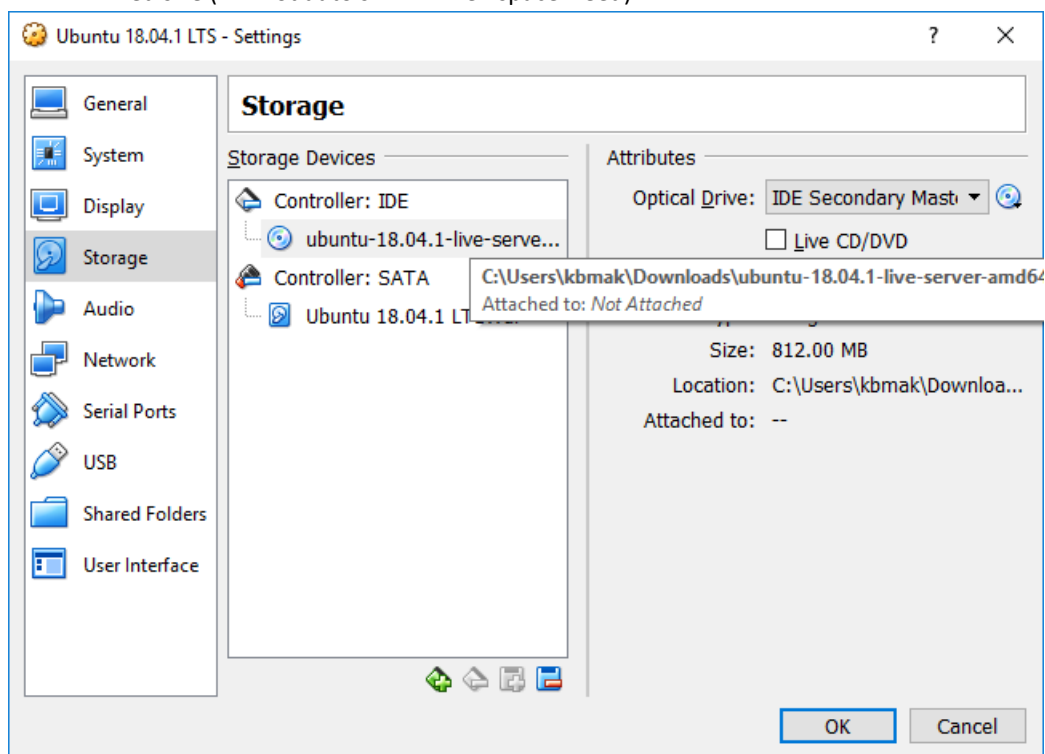
- Nextcloud 13.0.5
- Apache 2.4
- PHP 7.1
- MySQL 5.7
- Redis 4.0
- mDNS for network discovery

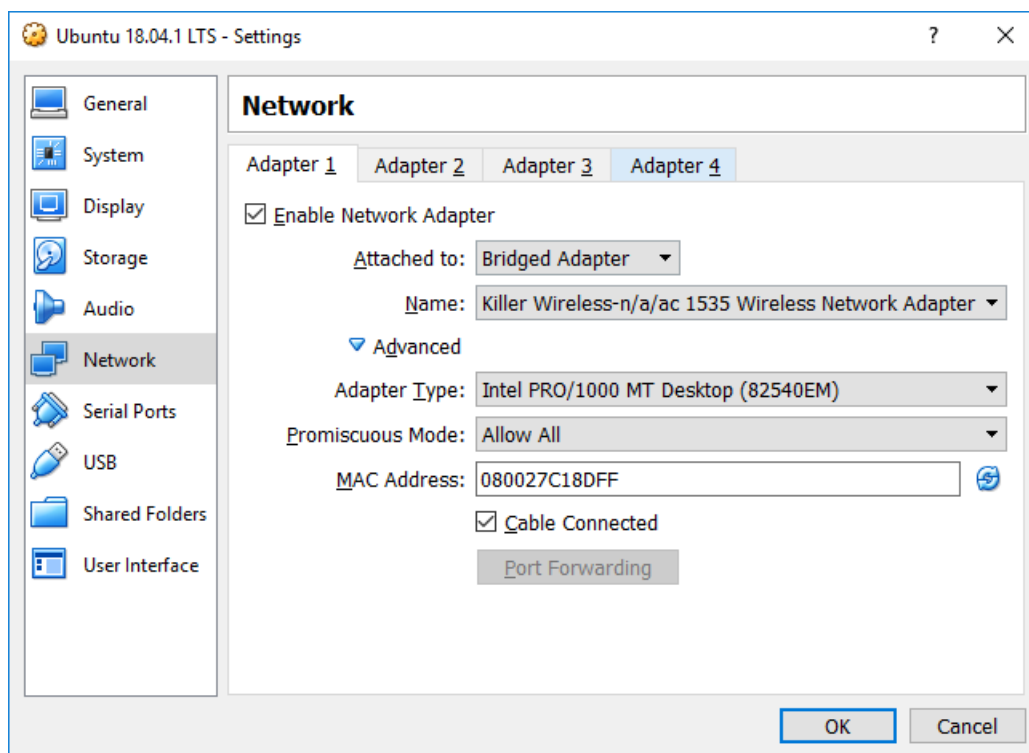
HOW TO INSTALL

1. Download the latest version of Oracle VirtualBox from <https://www.virtualbox.org/wiki/Downloads>
2. Install Oracle VirtualBox using the GUI installer
3. Download Ubuntu Server 18.04.1 LTS from <https://www.ubuntu.com/download/server>
4. Create a new Virtual Machine in Oracle VirtualBox

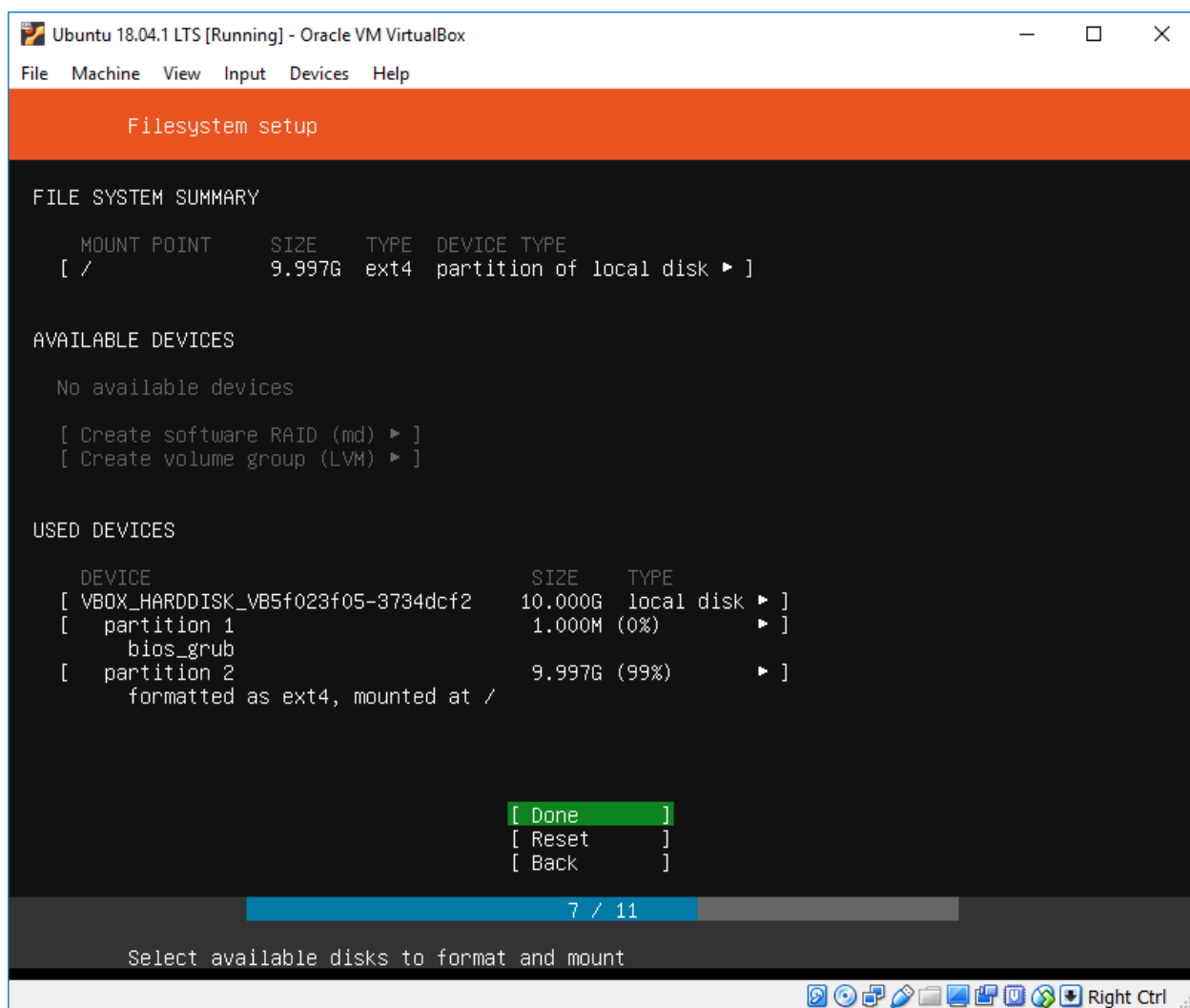


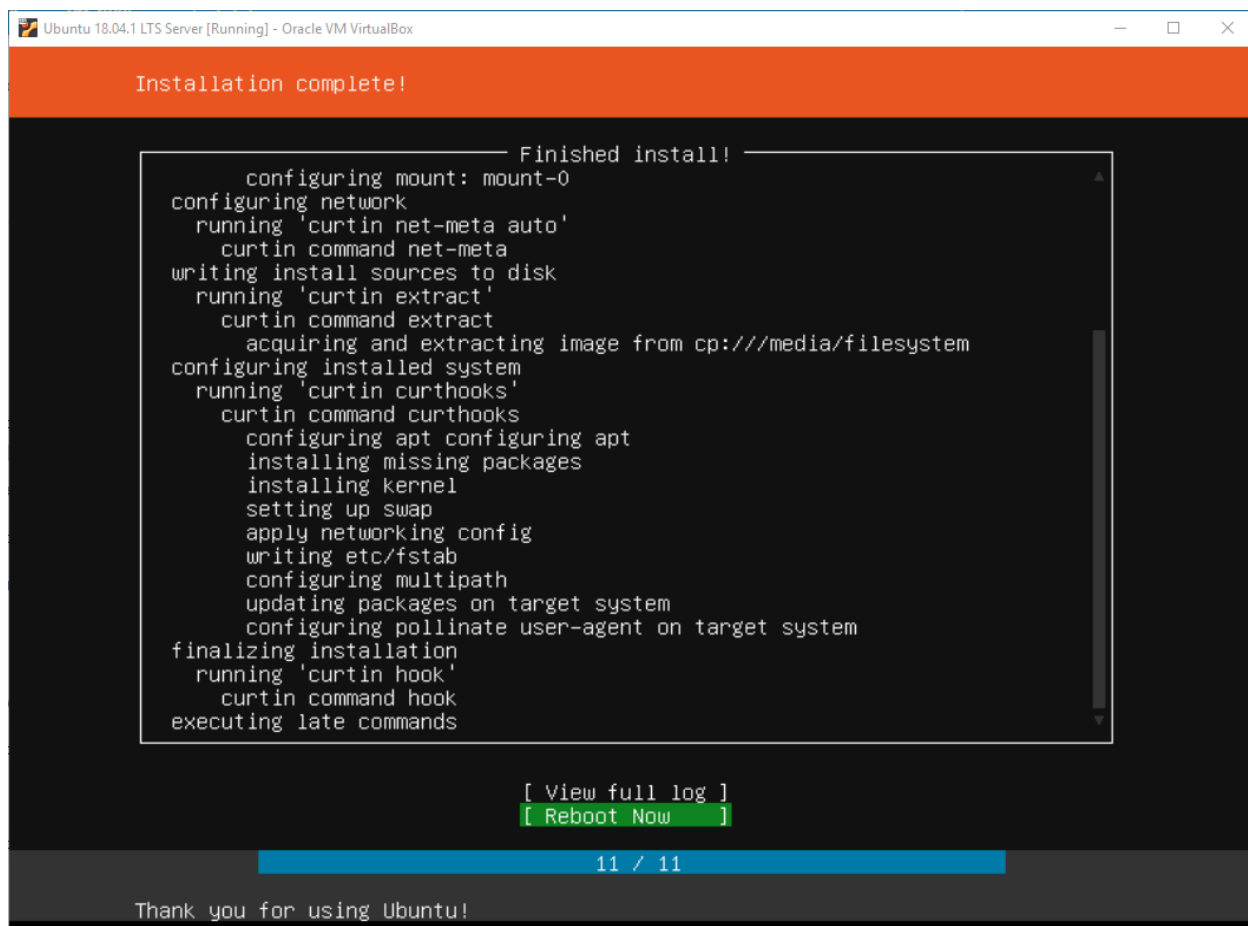
5. Configure the virtual machine
 - a. 1024 MB memory
 - b. Create a virtual hard disk now (10GB)
 - c. Hard disk file type: VDI (VirtualBox Disk Image)
 - d. Storage on physical hard disk dynamically allocated (only use space as it fills up, up to maximum fixed size (will not auto shrink when space freed))





6. Turn on the virtual machine and Install Ubuntu Server by following the on-screen instructions (use default options when prompted).





7. Reboot the virtual machine when installation is complete
8. SSH into the VM using the IP address displayed when the VM reboots (we like to use our own terminals instead of the clunky Oracle VirtualBox terminal)

```

+ ssh kbmakevin@192.168.0.26
The authenticity of host '192.168.0.26 (192.168.0.26)' can't be established.
ECDSA key fingerprint is SHA256:1PftfsyqsvrxkC+yLqemLBiFc0KiRlumRzZYilulLFM.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.0.26' (ECDSA) to the list of known hosts.
kbmakevin@192.168.0.26's password:
Welcome to Ubuntu 18.04.1 LTS (GNU/Linux 4.15.0-34-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Sep 17 19:28:07 UTC 2018

System load:  0.44           Processes:           90
Usage of /:   39.9% of 9.78GB Users logged in:     1
Memory usage: 13%           IP address for enp0s3: 192.168.0.26
Swap usage:   0%

40 packages can be updated.
16 updates are security updates.

Last login: Mon Sep 17 19:27:25 2018
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

kbmakevin@kempha:~$ |

```

9. Install snapd by entering the following command in the terminal:

sudo apt install snapd

10. This Nextcloud snap is available in the store for release. Install via the command:

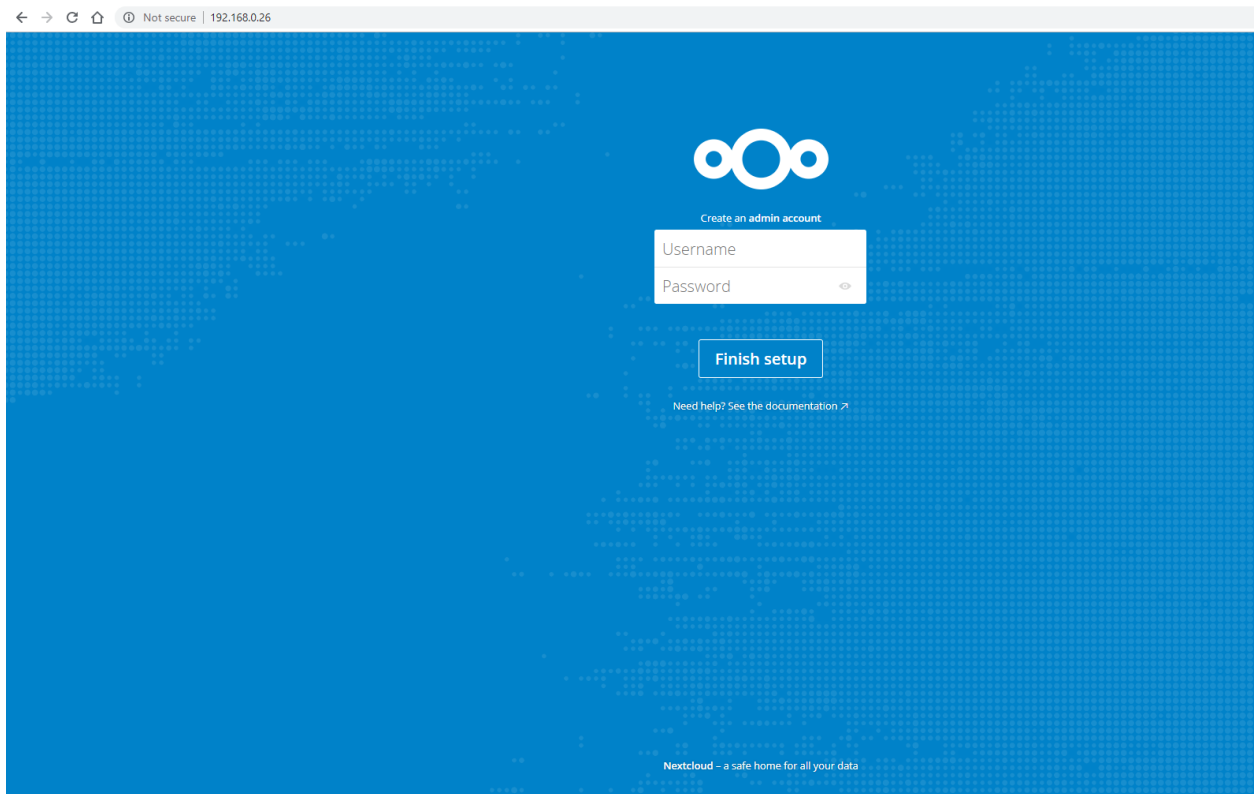
sudo snap install nextcloud

```

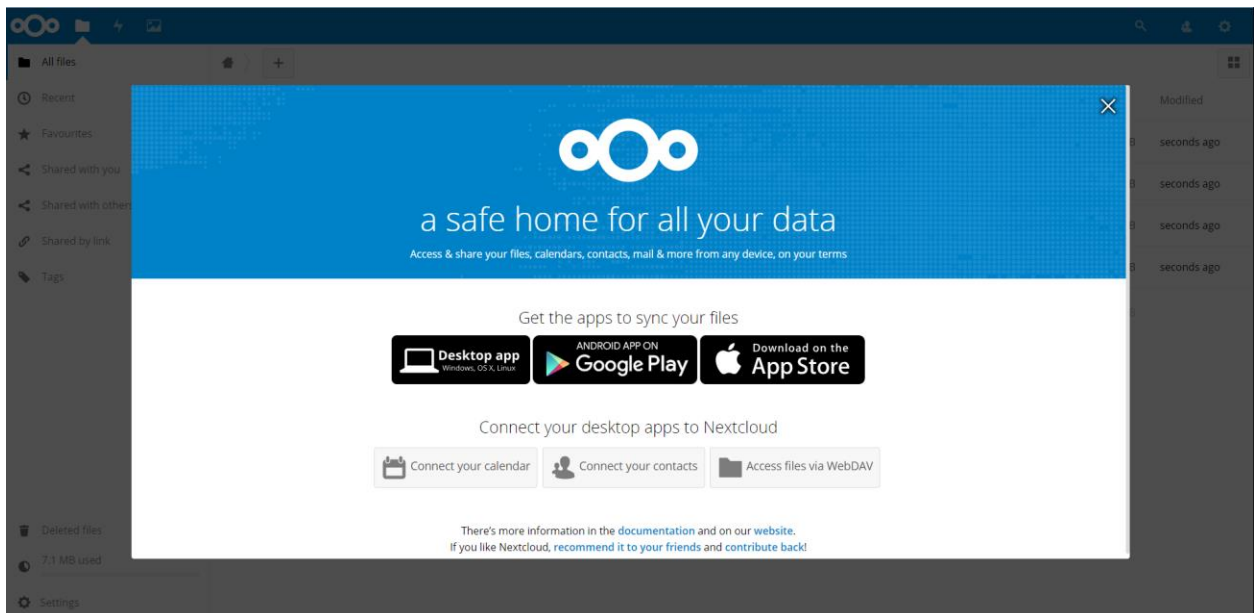
kbmakevin@kempha:~$ sudo apt install snapd
[sudo] password for kbmakevin:
Reading package lists... Done
Building dependency tree
Reading state information... Done
snapd is already the newest version (2.34.2+18.04).
0 upgraded, 0 newly installed, 0 to remove and 43 not upgraded.
kbmakevin@kempha:~$ snap find nextcloud
Name                Version      Publisher    Notes    Summary
nextcloud-client    2.3.3+gitab40efe nextcloud    -        Nextcloud Desktop Client
nextcloud-port8080   1.01         arcticslyfox -        Nextcloud Server
nextcloud-snap-abacao 11.0.3snap4 abacao       -        Nextcloud Server
nextcloud-nextant    11.0.0snap3 rmescandon   -        Nextcloud Server + search support
nextcloud-abacao     11.0.3snap4 abacao       -        Nextcloud Server
nextcloud            13.0.5snap1 nextcloud    -        Nextcloud Server - A safe home for all your data
cashbox-nextcloud   11.0.2snap2 cashbox      -        Nextcloud Server for www.cashBOX.plus
nextcloudsnap       12.0.4snap1 oscarbrolin -        Nextcloud Server - A safe home for all your data
qownnotes            18.09.1      pbek         -        Plain-text file notepad with markdown support and ownCloud / Nextcloud integration
spreadme             0.29.5snap1 nextcloud    -        Spread.ME audio/video calls and conferences feature for the Nextcloud Snap
test003-nc           13.0.4.snap1 reinism      -        Nextcloud Server - A safe home for all your data
htxucld              12.0.3snap7 htxu         -        Nextcloud Server
solr                  0.1          rmescandon   -        Starts up solr as forking daemon
mdns-hostname        0.0.1        welike       -        mDNS mini-daemon to published hostname.local
kbmakevin@kempha:~$ sudo snap install nextcloud
nextcloud 13.0.5snap1 from 'nextcloud' installed
kbmakevin@kempha:~$ snap list
Name      Version  Rev   Tracking  Publisher  Notes
core      16-2.33.1 4917  stable    canonical  core
nextcloud 13.0.5snap1 8267  stable    nextcloud  -
kbmakevin@kempha:~$ |

```

11. Visit the ipaddress of your virtual machine in your favorite browser to finish the setup of Nextcloud. Upon visiting the Nextcloud installation for the first time, you'll be prompted for an admin username and password.

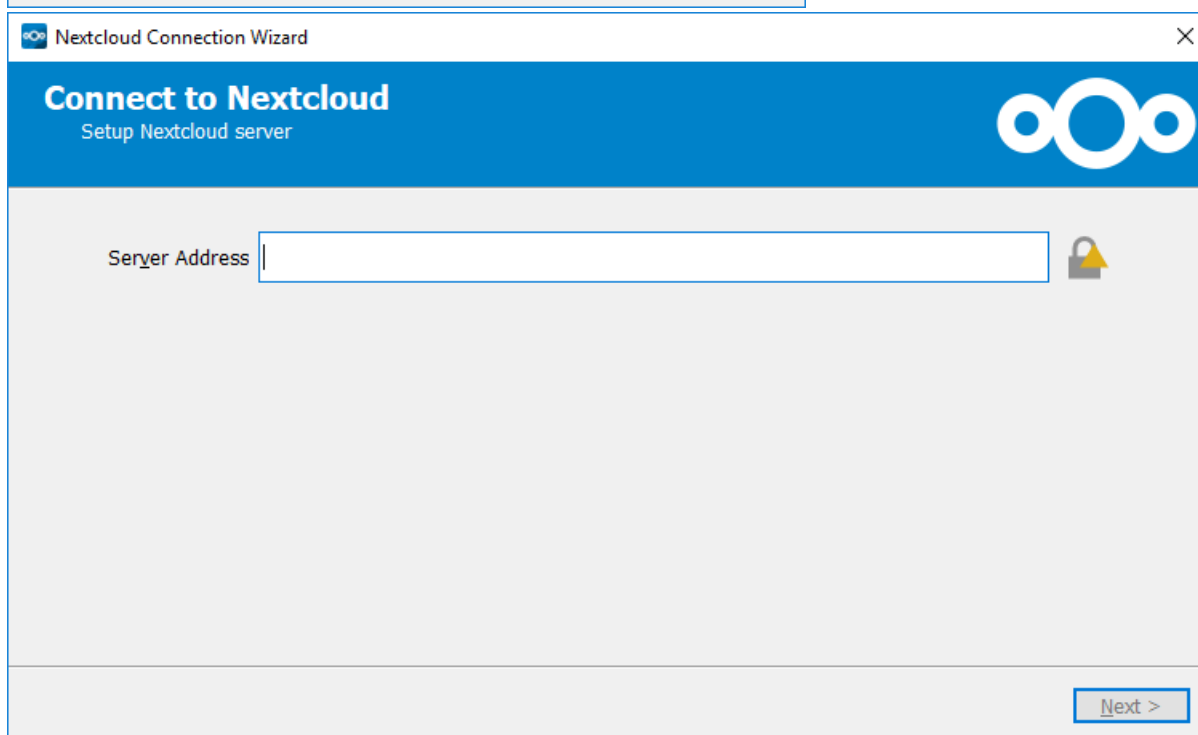
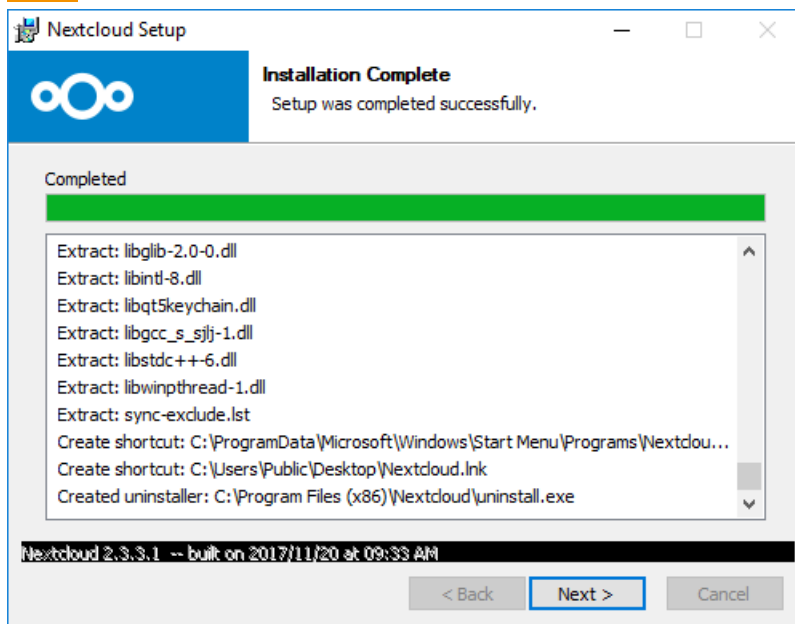


12. All done! Now you are free to explore the many fascinating features of Nextcloud (able to create users, install apps, and upload files, and much more)! Enjoy 😊!



NEXTCLOUD CLIENT SETUP

1. Install Nextcloud clients (Desktop, Mobile) by downloading from <https://nextcloud.com/install/#install-clients>



- 2.

Nextcloud Connection Wizard

Connect to Nextcloud

Enter user credentials

[Click here](#) to request an app password from the web interface.

Username

Password


< Back Next >

3.

Nextcloud Connection Wizard

Connect to Nextcloud


Setup local folder options

 ☒ Sync everything from server (7.1 MB)

☒ Ask for confirmation before synchronizing folders larger than 500 MB

☒ Ask for confirmation before synchronizing external storages

☐ Choose what to sync



Local Folder

Skip folders configuration < Back Connect...

4.