Supernote Private Cloud Deployment Manual

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1. Pre-Installation Checklist

Thank you for choosing Supernote Private Cloud Service. Before deployment, please carefully review the following key points:

- Compatibility: This manual uses Synology DS423+ (DSM 7.2.2) as an example. For other brands and models, refer to the official website of the corresponding NAS manufacturer.
- Network Requirements: The NAS or server device must maintain an internet connection (for component downloads).
- > Important Note: Currently not supported for deployment on Windows systems.
- ➤ If you wish to deploy the private cloud application on a Linux server, please proceed directly to 4. Linux Server Deployment Process

2. System Requirements

2.1 Hardware Configuration

Component	Minimum Requirement
CPU	2 cores
Memory	2 GB
Storage	50 GB

2.2 Supported Operating Systems

Example NAS Brand	Example Model
Synology	DS423+
Other brands and models	Refer to the official website of the corresponding NAS manufacturer.
Linux Distribution	Version
CentOS	7
Ubuntu	16.04/22.04 LTS
Debian	12

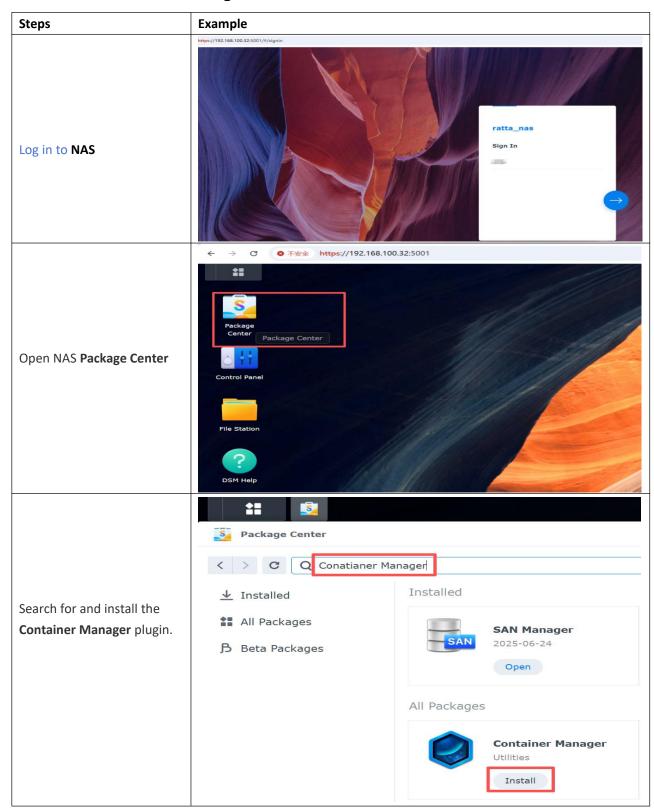
2.3 Component Information

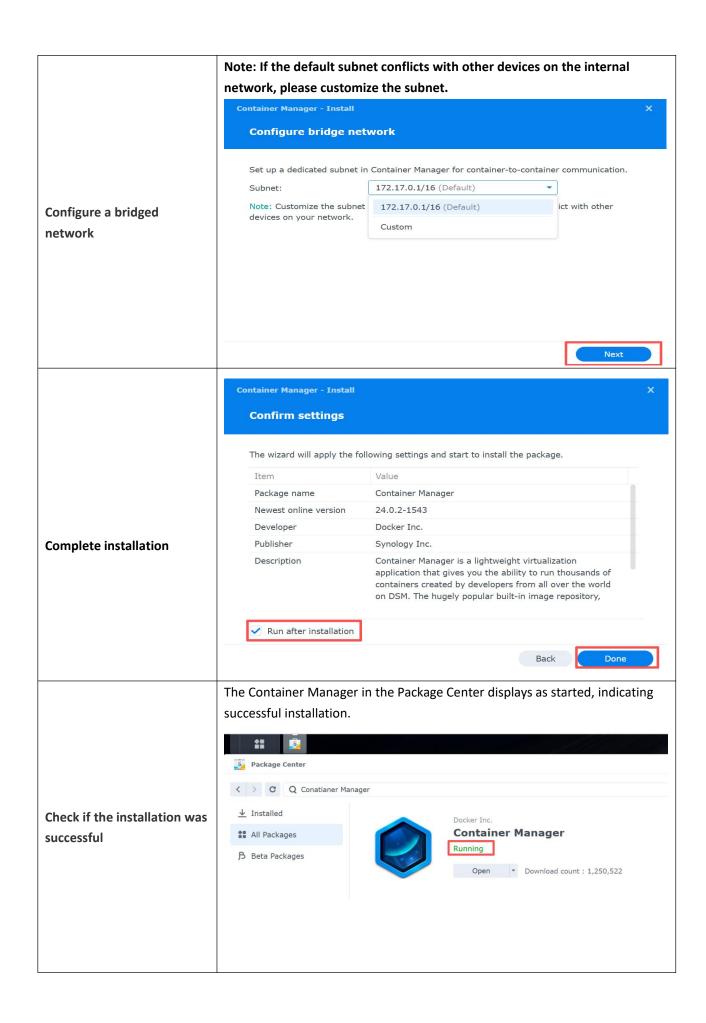
Component	Purpose
Container Manager	Container Plugin
redis	Caching Service
mairadb	Database Services
notelib	Note Conversion Service
supernote-service	Supernote Private Cloud Application

3. NAS Deployment Process

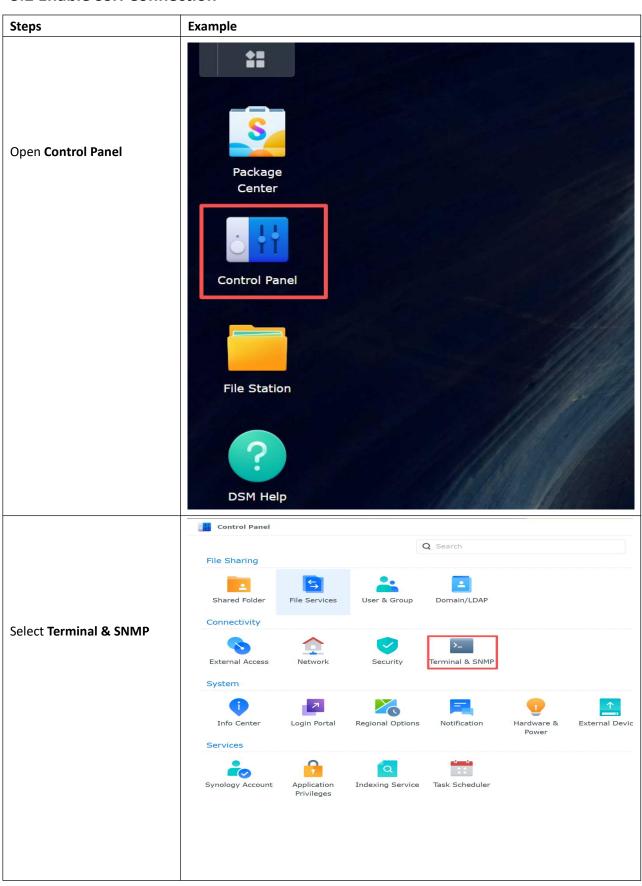
➤ Tip: If your NAS device already has Container Manager installed and SSH enabled, you can skip directly to 3.3 Create the installation directory

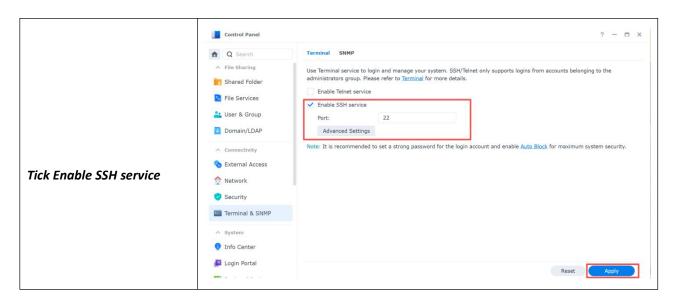
3.1 Install Container Manager



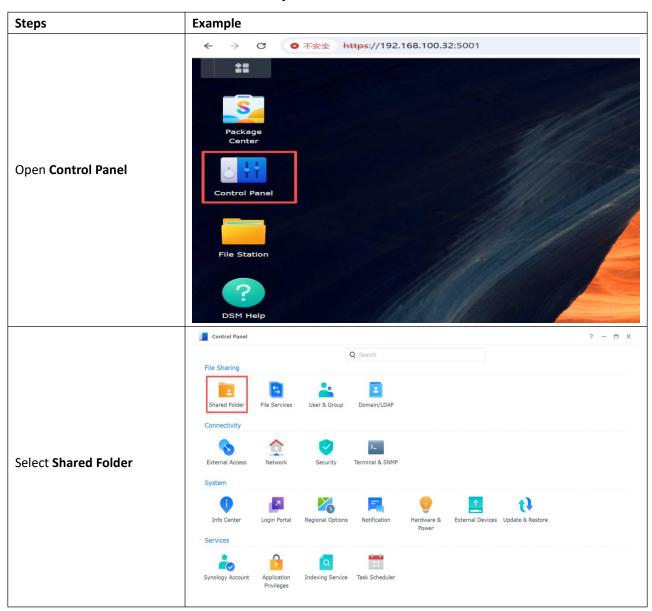


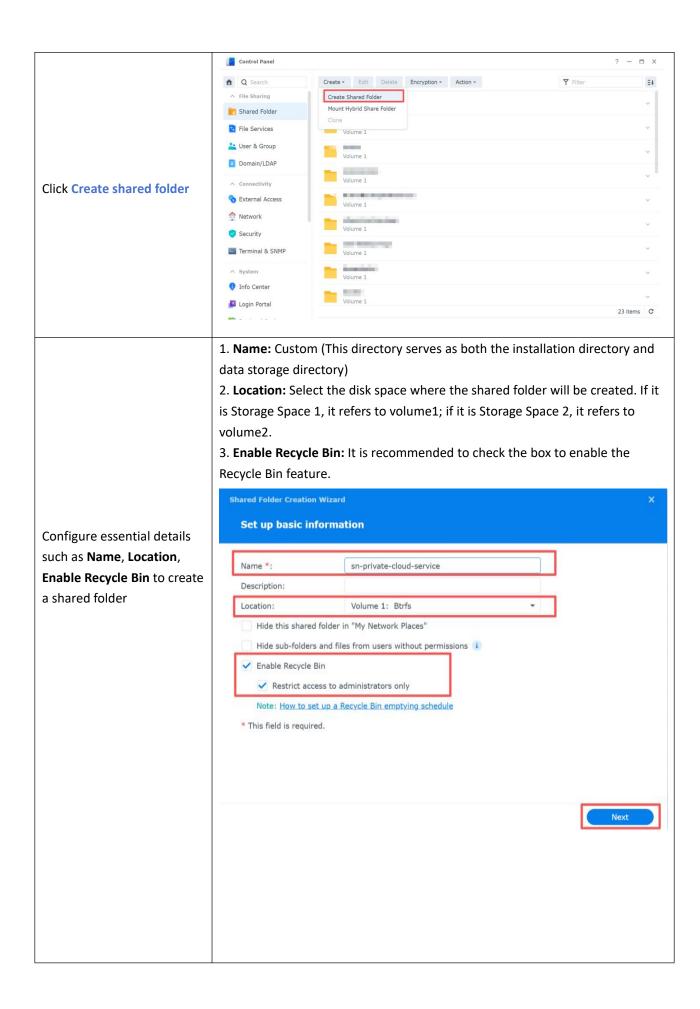
3.2 Enable SSH Connection

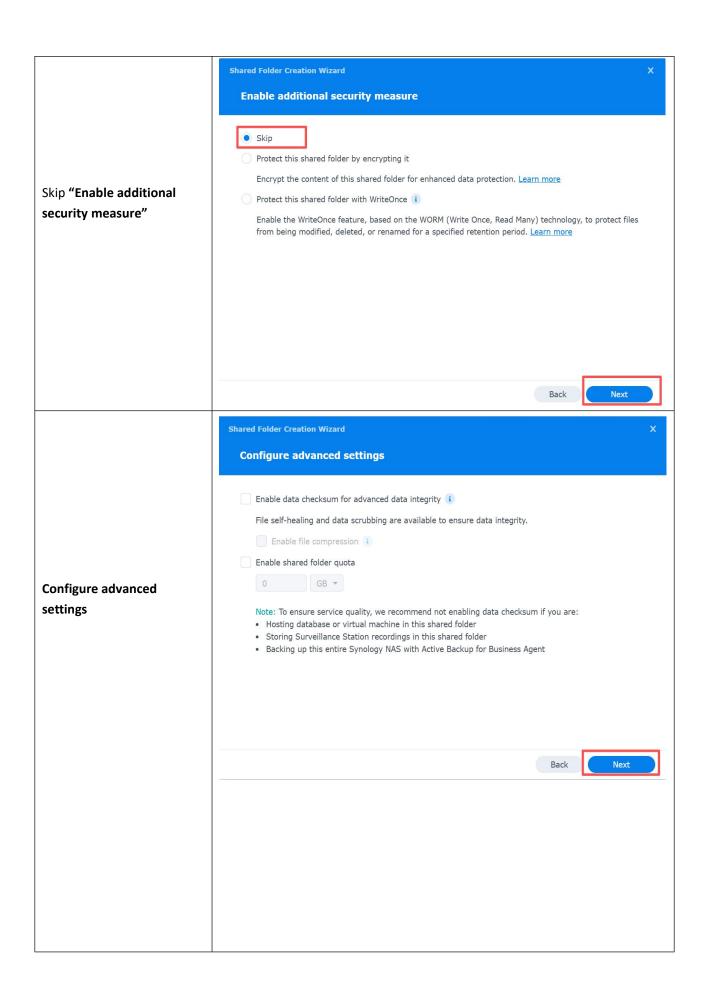


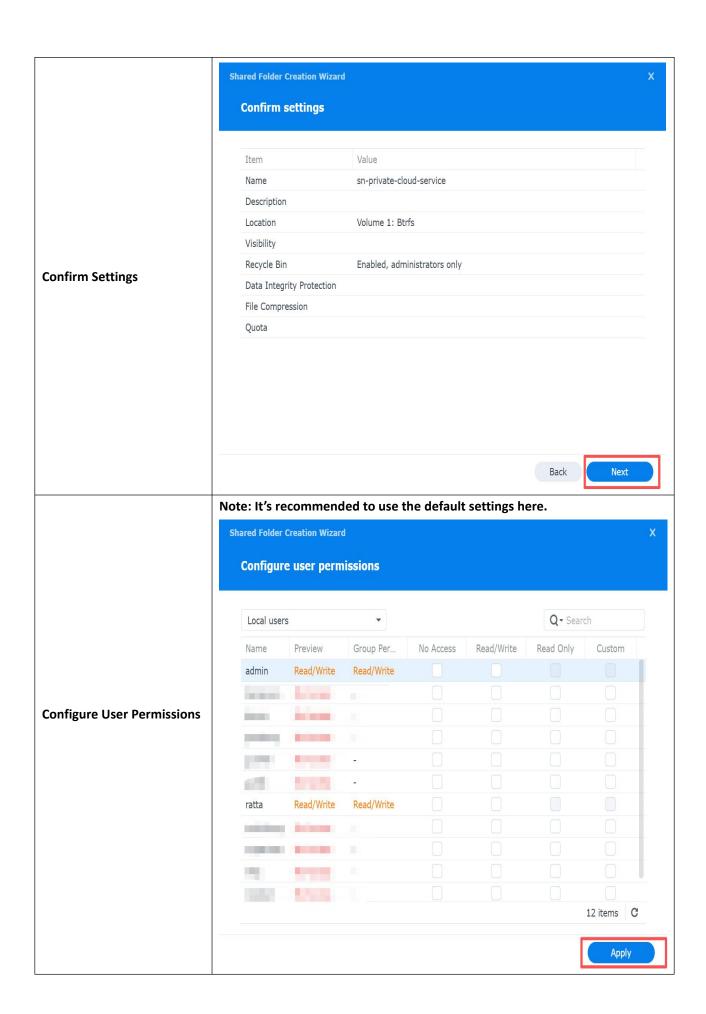


3.3 Create the installation directory









3.4 Connect to NAS

Example 1. Press and hold Win+R on your keyboard> Type cmd> Press Enter to open the built-in Windows command line interface. 2. Enter ssh NASusername@NAS_IP #Example: ssh ratta@192.168.100.32 3. SSH login requires using the NAS administrator account to ensure sufficient permissions for installing the Supernote Private Cloud program. C:\Users\13764} C:\Users\13764} C:\Users\13764} Enter NASManageUser@NASIP C:\Users\13764} C:\Users\13		
the built-in Windows command line interface. 2. Enter ssh NASusername@NAS_IP # Example: ssh ratta@192.168.100.32 3. SSH login requires using the NAS administrator account to ensure sufficient permissions for installing the Supernote Private Cloud program. C:\User\13764b C:		
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permissions for installing the Supernote Private Cloud program. C:\Users\13764> C:\Users\13764> C:\Users\13764> C:\Users\13764> C:\Users\13764> Enter NASManageUser@NASIP C:\Users\13764\sin ratta@192.168.100.32 (192.168.100.32)' can't be established. ED25519 key fingerprint is SHA256:MaA4fUwiDroAuIUSZNffkagEA/XRKV5/IAvIXav-NuuA. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes the list of known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes the list of known by any other names. Are you sure you mand to modify system configs, execute external binary files, add files, or install unauthorized third-party apps may lead to system damages or unexpected behavior, or cause data loss. Make sure you are aware of the consequences of each command and proceed at your own risk. Warning: Data should only be stored in shared folders. Data stored elsewhere may be deleted when the system is updated/restarted. Could not chdir to home directory /var/services/homes/ratta: No such file or directory ratta@ratta_nas:/\$ If you are using macOS or Linux, you can directly enter commands in the command line terminal to establish a remote connection. Taking Linux as an example: ssh ratta@192.168.100.32 [deploy@jenkins -]\$ ssh ratta@192.168.100.32		
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C:\Users\l3764\sin ratta@192.168.100.32 Enter NASManageUser@NASIP C:\Users\l3764\sin ratta@192.168.100.32 (192.168.100.32)' can't be established. ED25519 key fingerprint is SHA256:MaA4fburbroAUIUSZNFfkqEA/XRKYS/1x4VIXAV+WuA. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])?\frac{yes}{yes} = Enter yes Warning: Permanently added '192.168.100.32' (ED25519) to the list of known hosts. Fatta@192.168.100.32's password: Enter NASManageUserPassword		
Using terminal commands to modify system configs, execute external binary files, add files, or install unauthorized third-party apps may lead to system damages or unexpected behavior, or cause data loss. Make sure you are aware of the consequences of each command and proceed at your own risk. Warning: Data should only be stored in shared folders. Data stored elsewhere may be deleted when the system is updated/restarted. Could not chdir to home directory /var/services/homes/ratta: No such file or directory ratta@ratta_nas:/\$ If you are using macOS or Linux, you can directly enter commands in the command line terminal to establish a remote connection. Taking Linux as an example: ssh ratta@192.168.100.32 [deploy@jenkins -]\$ ssh ratta@192.168.100.32		
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example: ssh ratta@192.168.100.32 [deploy@jenkins ~]\$ ssh ratta@192.168.100.32		
The authenticity of host '192.168.100.32 (192.168.100.32)' can't be established. ED25519 key fingerprint is SHA256:MaA4fUwiDrOAUIUSZNffkqEA/XRKV5/lx4vIXav+WuA. This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '192.168.100.32' (ED25519) to the list of known hosts. ratta@192.168.100.32's password: Using terminal commands to modify system configs, execute external binary files, add files, or install unauthorized third-party apps may lead to system damages or unexpected behavior, or cause data loss. Make sure you are aware of the consequences of each command and proceed at your own risk. Warning: Data should only be stored in shared folders. Data stored elsewhere may be deleted when the system is updated/restarted. Could not chdir to home directory /var/services/homes/ratta: No such file or directory ratta@ratta_nas:/\$		
You can also use third-party remote tools to connect to your NAS remotely, such as PuTTY. Click the link below to download and install it for use. Download: https://supernote-private-cloud.supernote.com/cloud/putty.msi Host Name: Server IP		
Port: Server SSH Port		
Category: Session Logging Logging Reyboard Bell Features Window Behaviour Translation Colouts Colouts Conception		

3.6 Switch User

Deploying the Supernote Private Cloud application requires root user privileges on your NAS or server. The Supernote Private Cloud application will only generate necessary configuration files within your installation directory and will not access any other partitions on your NAS or server, nor will it access your files.

System	Example
	Use this procedure to switch users on Windows, macOS, or Linux.
Windows 10 and above	Example: sudo su - root
macOS	<u>ratta@ratta_nas:/</u> \$ sudo su - root
Linux	
Putty	Password: ← Enter NASManageUserPassword

3.7 Deploying the Supernote Private Cloud application

Steps Example		
Enter the installation directory	If your NAS device has multiple disks, you need to confirm which disk contains the installation directory you created. Refer to the section on creating the installation directory for details. If you selected storage space 2, navigate to `/volume2/installation-directory`, and so on. Example: `cd /volume1/sn-private-cloud-service`	
	C:\WINDOWS\system32\cmd. × + \times root@ratta_nas:~# cd /volume1/sn-private-cloud-service/ root@ratta_nas:/volume1/sn-private-cloud-service#	
Download and install script	Download Address: https://supernote-private-cloud-service/install.sh https://supernote-private-cloud.supernote.com/cloud/install.sh https://supernote-private-cloud.supernote.com/cloud/install.sh **Com/install.sh** **Com/install.sh** **Total % Received % Xferd Average Speed Time Time Current Dload Dload Dload Dload Dload Spent Left Speed 100 41958 100 41958 0 28599 0 0:00:01 0:00:01 -::- 28679 100 100 100 100 100 100 100 100 100 10	
Grant execution permissions to the script	Example: chmod +x install-en.sh root@ratta_nas:/volume1/sn-private-cloud-service# chmod a+x install.sh root@ratta_nas:/volume1/sn-private-cloud-service#	
Execute the installation script	Example: ./install.sh root@ratta_nas:/volume1/sn-private-cloud-service#[./install.sh] The installation process is about to begin, Please keep the deployment tool running! Supernote Private Cloud Installation Welcome to the Supernote Private Cloud deployment script!	

3.8 Deployment completed

After deployment is complete, do not delete or modify the directories specified in the notes.

5.2 Important Notes

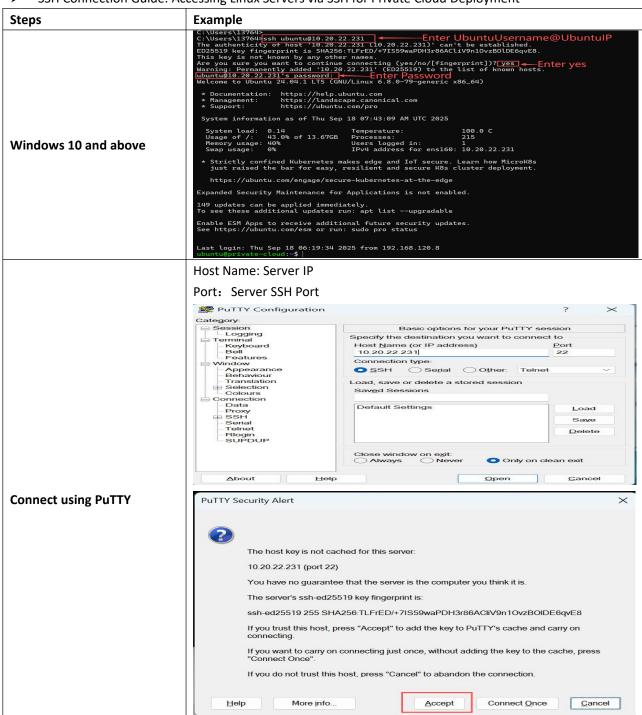
Steps	Example	
	Wait for the install.sh script to c	complete. If the following page appears, the
	installation is successful. If insta	llation fails, please check 5.3 Frequently Asked
	Questions	
	Successfully Installed Supernote Private Cloud	on Synology NAS
	Supernote Private Cloud Web Access Address: http://19 Installation directory: /volumel/sn-private-cloud-ser File Data Directory: /volumel/sn-private-cloud-servic Log Directory: /volumel/sn-private-cloud-service/snda Synology Management Notice: 1. You can manage these containers using Synology's '	vice e/supernote_data/ ta/logs Container Manager' application.
	We recommend enabling auto-start in the 'ContainerTo back up your data, please back up the entire /v	settings. olume1/sn-private-cloud-service/supernote_data/ directory.
Installation complete	Use the following commands to manage services: Help Information: cd /volumel/sn-private-cloud-servic Start the service: cd /volumel/sn-private-cloud-servic Stop the service: cd /volumel/sn-private-cloud-servic View Logs: cd /volumel/sn-private-cloud-service & do Update System: cd /volumel/sn-private-cloud-service &	ce && docker-compose up -d e && docker-compose stop servicename cker-compose logs
	Use the following commands to manage services: Help Information: cd /volumel/sn-private-cloud-servic Start the service: cd /volumel/sn-private-cloud-servi Stop the service: cd /volumel/sn-private-cloud-servic View Logs: cd /volumel/sn-private-cloud-service & do Update System: cd /volumel/sn-private-cloud-service &	ce && docker-compose up -d e && docker-compose stop cker-compose logs
	root@ratta_nas:/volumei/sn-private-cloud-service#	
	Note: All operations below mus	t be performed within the installation directory.
	Supernote Private Cloud Web	Please open this address in your browser to
	Access Address	access the private cloud notes.
	Installation directory	Directory for installing private cloud
		applications
	File Data Directory	Store synchronized files
	Log Directory	Supernote Private Cloud Program Log File
Table of Contents and Help	Stop cache service	docker-compose stop redis
	Stop database service	docker-compose stop mariadb
	stop note conversion service	docker-compose stop notelib
	Stop supernote service	docker-compose stop supernote-service
	Stop all service	docker-compose stop redis mariadb notelib
		supernote-service
	Start all service	docker-compose up -d
	Update service	./install.shupdate
	View Help Information	./install.sh -h

4. Linux Server Deployment Process

- ➤ The private cloud application supports deployment on Linux. For supported Linux distributions, please refer to 2.2 Supported Operating Systems
- Connecting to a Linux server can be achieved using the built-in command-line window in Windows or via third-party SSH tools. Download link: https://supernote-private-cloud.supernote.com/cloud/putty.msi

4.1 Connect to a Linux server

SSH Connection Guide: Accessing Linux Servers via SSH for Private Cloud Deployment



4.2 Switch User

Deploying private cloud software on a Linux server requires root privileges.

System	Example
Windows 10 and above	Use this procedure to switch users on Windows, macOS, or Linux. Example: sudo su - root
nacOS Linux	<pre>ubuntu@private-cloud:~\$ sudo su - root [sudo] password for ubuntu: root@private-cloud:~#</pre>

4.3 Create the installation directory

- You need to select a partition with over 50GB of disk space to create the installation directory. Please refer to 2.1 Hardware Configuration
- Example: mkdir -pv /data/supernote

Steps	Example	
	Example: mkdir -pv /data/supernote	
Create the installation directory	<pre>root@private-cloud:~# mkdir -pv /data/supernote root@private-cloud:~# cd /data/supernote/ root@private-cloud:/data/supernote# </pre>	

4.4 Deploy the Supernote Private Cloud application

> The process is essentially the same as deploying a private cloud on a NAS. Please refer to

3.7 Deploying the Supernote Private Cloud application

Steps	Example
o.cps	

	Download Address:
	https://supernote-private-cloud.supernote.com/cloud/install.sh
	Example: curl -o \$(pwd)/install.sh
Download and install script	https://supernote-private-cloud.supernote.com/cloud/install.sh
	root@private-cloud:/data/supernote# curl -o \$(pwd)/install.sh https://supernote-private-cloud.supernote.com/cloud/install.sh % Total % Received % Xferd Average Speed Time Time Current Dload Upload Total Spent Left Speed 100 41958 100 41958 0 0 37661 0 0:00:01 0:00:01 -:-:- 37664 root@private-cloud:/data/supernote#
Grant execution permissions	Example: chmod +x install.sh
to the script	
	Example: ./install.sh
	root@private-cloud:/data/supernote# ./install.sh
	The installation process is about to begin. Please keep the deployment tool running!
Execute the installation	=== Supernote Private Cloud Installation ===
script	Welcome to the Supernote Private Cloud deployment script!

4.5 Deployment Completed

After deployment is complete, do not delete or modify the directories specified in the notes.

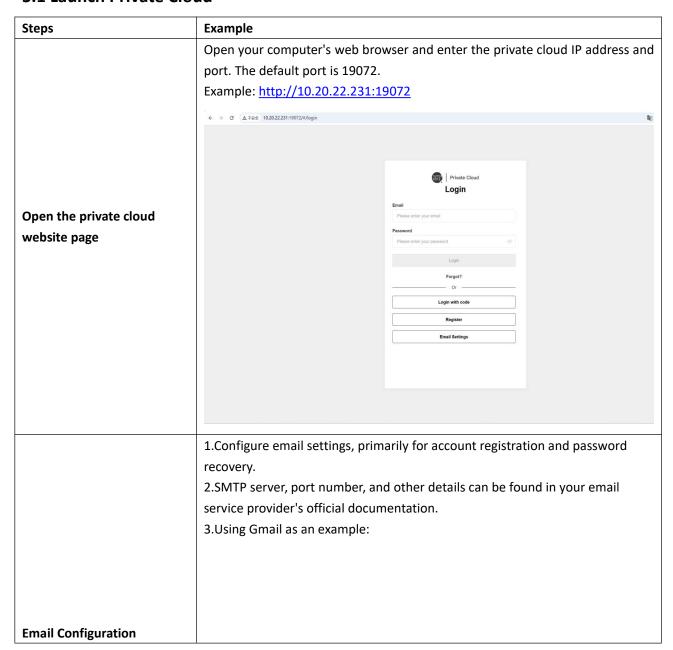
5.1 Important Notes

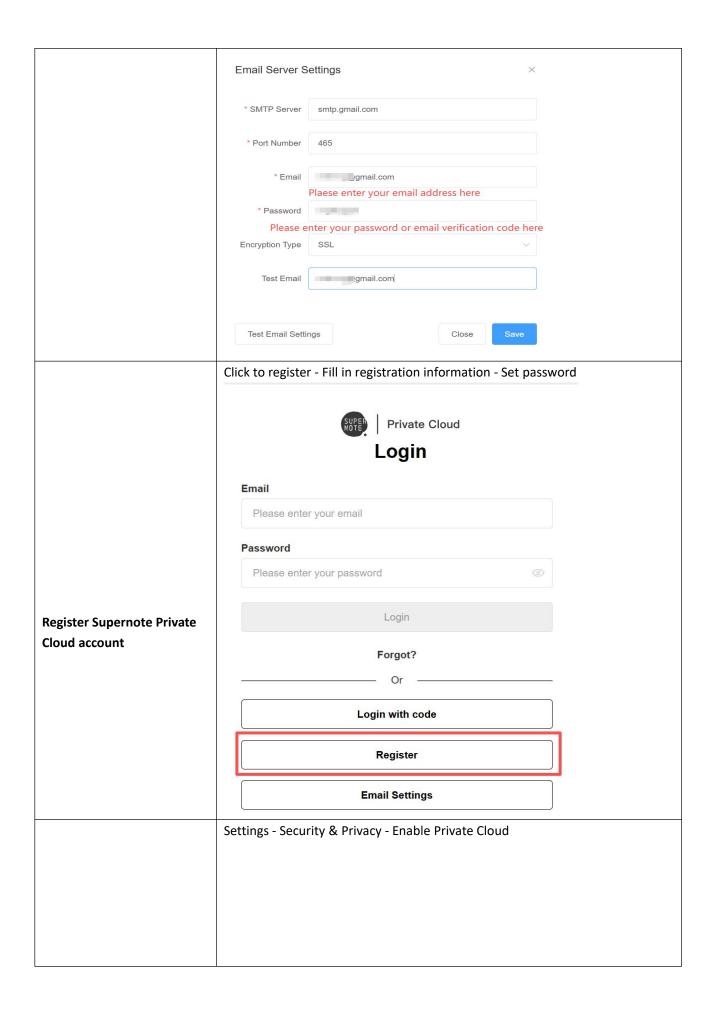
Steps	Example	
	Wait for the install.sh script to complete. If the following page appears, the	
	installation is successful. If installation fails, please check <u>5.3 Frequently Asked</u>	
	Questions	
	Successfully installed Supernote Private Cloud	
Installation complete	Supernote Private Cloud Web Access Address: http://10.20.22.231:19072 Installation directory: /data/supernote File Data Directory: /data/supernote/supernote_data/ Log Directory: /data/supernote/su	
	Use the following commands to manage services: Help Information: cd /data/supernote && ./install.sh -h Start the service: cd /data/supernote && docker-compose up -d Stop the service: cd /data/supernote && docker-compose stop View Logs: cd /data/supernote && docker-compose logs Update System: cd /data/supernote && ./install.shupdate	
	root@private-cloud:/data/supernote#	
	Note: All operations below must be performed within the installation directory.	
	Supernote Private Cloud Web	Please open this address in your browser to
	Access Address	access the private cloud notes.
	Installation directory	Directory for installing private cloud
		applications
Table of Contents and Help	File Data Directory	Store synchronized files
	Log Directory	Supernote Private Cloud Program Log File
	Stop cache service	docker-compose stop redis
	Stop database service	docker-compose stop mariadb
	stop note conversion service	docker-compose stop notelib

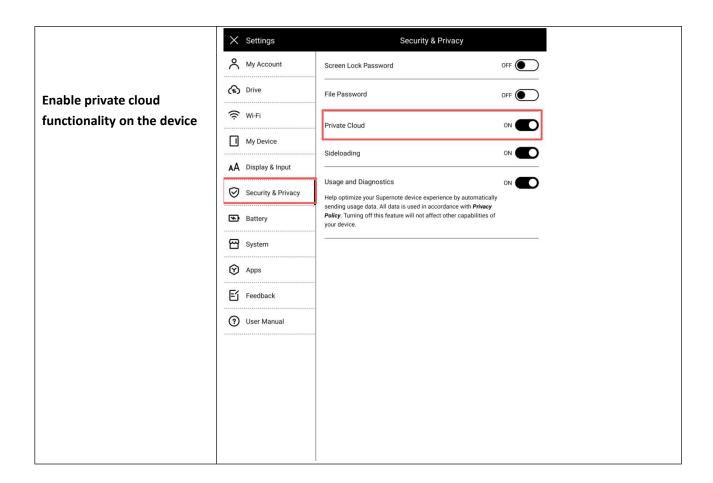
	Stop supernote service	docker-compose stop supernote-service
	Stop all service	docker-compose stop
	Start all service	docker-compose up -d
	Update service	./install.shupdate
	View Help Information	./install.sh -h

5. Appendix

5.1 Launch Private Cloud







5.2 Important Notes

➤ Do not delete, move, or rename the following directories, as doing so may cause synchronization failure or data loss.

Purpose	Directory Name
	/{install_director}/supernote_data
	/{install_director}/supernote_data/digest
	/{install_director}/supernote_data/account
	/{install_director}/supernote_data/account/Supernote
	/{install_director}/supernote_data/account/Supernote/Document
Supernote Private Cloud	/{install_director}/supernote_data/account/Supernote/EXPORT
Data Storage Directory	/{install_director}/supernote_data/account/Supernote/INBOX
	/{install_director}/supernote_data/account/Supernote/MyStyle
	/{install_director}/supernote_data/account/Supernote/Note
	/{install_director}/supernote_data/account/Supernote/SCREENSHOT
	/{install_director}/sndata/

5.3 Frequently Asked Questions

> Common installation errors and usage help information can be found here for relevant solutions.

Problem Reason

-bash:./install.sh:	The script lacks execution permissions. Please grant the script execution permissions. For a	
Permission	solution, refer to: 3.7 Deploying the Supernote Private Cloud application	
denied		
[ERROR]	The disk partition containing the current installation directory is smaller than 50GB. Please	
Insufficient disk	change the disk containing the installation directory or increase disk space.	
space		
Error:	The operating system currently in use does not support private cloud deployment. Please refer	
Unsupported	to <u>2.2 Supported Operating Systems</u>	
operating system		
type		
	Please verify that your local network is functioning properly. Your NAS or server must be able to	
Network error	connect to the internet. For reference, see <u>1. Pre-Installation Checklist</u>	
Unable to access		
the private cloud	Please check whether your firewall is allowing ports 18072 and 19072.	
page and unable		
to synchronize		
-bash: wget:	Ubuntu and Debian users execute: apt-get update && apt-get install wget	
command not	Centos users execute: yum -y install wget	
found		
	1. Before uninstalling, please back up your data properly. For backup instructions, refer to your	
Uninstall	installation method.	
	NAS: 3.8 Deployment completed	
	> Server: 4.5 Deployment completed	
	2. Back up the data directory of the supernote_data file.	
	3. Back up the sndata directory	
	4. Uninstall Private Cloud	
	> command: docker-compose down	
Upgrade Service	NAS For upgrades, please refer to: 3.8 Deployment completed	
	For server upgrades, please refer to: 4.5 Deployment completed	
How to Use	Please refer to the following link, Additional frequently asked questions will be disclosed at the	
HTTPS Services	following address.	
	https://support.supernote.com/Whats-New/setting-up-your-own-supernote-private-cloud-beta/	

5.4 Regarding Email Configuration

- Due to varying configuration requirements across different email service providers, Supernote may not cover all email verification processes. Therefore, we strongly recommend referring to the latest official documentation from your specific email provider or consulting your email administrator directly for precise configuration details. The following sections provide detailed configuration steps using Gmail, Yahoo as examples.
- Different email service providers have varying security policies. To confirm whether other email brands require the use of application-specific passwords, we recommend visiting their official websites or contacting their administrators for verification. Typically,

providers with such requirements will explicitly state this on their official websites.

p. 0		
	Configuration Options	
	SMTP Server: Email Service Provider SMTP Address	
	Port Number: 465	
	Email Address: Please enter the email address you use to send emails.	
	Password: Email App-Specific Password	
Email Server Seting	Encryption Type: Either TLS or SSL is acceptable	
	Test Email Address: Enter the email address where you wish to receive test	
	emails	
How to Generate a Unique Pa	assword for Your Gmail Account	
Gmail SMTP Address	smtp.gmail.com	
	Visit the Google Account Security page:	
Enable Two-Step Verification	https://myaccount.google.com/security	
(Prerequisites)	2. In the "Sign in to Google" section, locate "2-Step Verification" and follow	
	the prompts to enable it.	
Generate	1. Direct access: https://myaccount.google.com/apppasswords	
application-specific	2. Custom Name Example: Super Note System	
passwords	3. Click the "Generate/Create" button	
	4. Google will display a 16-digit password in the format: abcd efgh ijkl mnop	
	5. Enter this password into the Email Configuration section of <u>5.1 Launch</u>	
	Private Cloud	
Method for Generating a Ded	licated Password for Yahoo Mail Accounts	
Yahoo Mail SMTP address	smtp.mail.yahoo.com	
Generate	Sign in to your Yahoo Account Security page.	
application-specific	https://login.yahoo.com/account/security?.lang=en-US&.intl=us&.src=yhel	
passwords	<u>p</u>	
	2. Under "External connections," click Create app password.	
	3. Enter your app's name in the text field.	
	4. Click Generate password.	
	5. Use the one-time password to log in to your 3rd party app.	
	6. Click Done.	
Reference Links	https://help.yahoo.com/kb/SLN15241.html	

5.5 Enable TLS/SSL

- The Supernote team cannot issue trusted SSL certificates for each user's self-deployed private cloud instance. Issuing certificates requires verification from trusted Certificate Authorities and proof of domain ownership, which is not feasible for privately hosted cloud services spread across numerous user-owned servers.
- Proposed Solutions: Using a Reverse Proxy (Recommended):
- The reverse proxy configuration example is as follows, using Nginx as an example:

Please modify the locations marked in uppercase letters in the following configuration example. server {

```
listen 80;
   listen 443 ssl;
    server_name your_domain_name;
    ssl certificate CERT PATH
   ssl_certificate_key KEY_PATH;
   ssl_session_timeout 60m;
   ssl_protocols TLSv1.2;
    ssl_ciphers ALL:!ADH:!EXPORT56:RC4+RSA:+HIGH:+MEDIUM:+LOW:+SSLv2:+EXP;
   ssl_prefer_server_ciphers on;
    access_log ACCESS_LOG_PATH;
    error_log ERROR_LOG_PATH;
    client_max_body_size 20480m;
location / {
   proxy_pass http://YOUR_PRIVATE_CLOUD_IP_ADDRESS:19072;
    proxy_set_header Host $proxy_host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy set header X-Forwarded-Host $host;
    proxy_redirect http:///YOUR_PRIVATE_CLOUD_IP_ADDRESS:19072/ https://$host/;
    proxy_redirect https:///YOUR_PRIVATE_CLOUD_IP_ADDRESS:19072/ https://$host/;
    proxy_redirect ~*^https?://[^/]+:19072(/?.*)$ https://$host$1;
   sub_filter_once off;
   sub filter types *;
    sub_filter 'http:///YOUR_PRIVATE_CLOUD_IP_ADDRESS:19072' 'https://$host';
   sub_filter 'https:///YOUR_PRIVATE_CLOUD_IP_ADDRESS:19072' 'https://$host';
   sub_filter ':19072' ";
    proxy buffering on;
    proxy_buffer_size 4k;
   proxy_buffers 8 4k;
    proxy_connect_timeout 6000;
    proxy_send_timeout 6000;
   proxy_read_timeout 6000;
}
```

5.6 Technical Support

Email: service@supernote.com and feedback@supernote.com