

Supplemental Guide

March 2017

Installing and Configuring SnapSync Agent for Android



Summary

This document describes how to install and configure SnapSync for Android mobile devices. It also covers the installation of the SnapSync Agent for Android. SnapServer NAS appliances or SnapCLOUD servers are used as primary storage targets in a peer-to-peer SnapSync configuration.

Information, Tools, and Files

Before you begin these procedures, the following information should be noted:

- This guide covers both SnapServer appliances (models XSD40, XSR40, and XSR120) and SnapCLOUD servers which use the Guardian OS software. The term “SnapServer” in this document refers to both types of systems and is used interchangeably in the document.
- This document uses the terms “SnapServer Administrator” and “Administrator” interchangeably. When more than one type of administrator is used (such as a System Administrator), the references in this document are for the Storage Administrator.
- This document also covers the roles of both the Administrator and the mobile Android user, and the tasks that are used for each of these roles.

Prerequisites

- The Administrator should be familiar with the SnapServer Web Management Interface. Additional information on using and accessing the Web Management Interface is found in the *SnapServer Administrator’s Guide* for GuardianOS. Refer to the Overland Knowledge Base for the appropriate guide:
<https://community.sphere3d.com/community/documentation/nas/snapserver>
- Download the SnapSync Agent for Android from the Overland Storage SnapSync website:
<http://support.overlandstorage.com/support/snapsync.htm>
- Make sure all devices and the host that are part of a SnapSync environment have a date and time that are no more than 10 minutes apart.
- For the purposes of this guide, the following processes are considered to have been done:
 - A SnapSync user folder (`doug-androidTablet`) for the Android Client on the SnapServer appliance or SnapCLOUD has already been created by the Administrator for sharing.
 - The SnapSync secret key is available for the Android mobile client to access the SnapServer storage used as a repository for shared SnapSync files.

Additional information on SnapSync folder sharing, security key sharing, and SnapSync licensing can be found in the *SnapSync Getting Started Supplemental Guide* or the *SnapSync 2.3 User Guide*.

<https://community.sphere3d.com/docs/DOC-3933> (Getting Started)

<https://community.sphere3d.com/docs/DOC-3839> (User Guide)

Versions Tested

The SnapSync test environment uses the following versions:

- Samsung Galaxy Tab S2
- Android version 5.1.1
- SnapSync Agent for Android OS version 2.3.2
- SnapServer XSR120 running GuardianOS version 7.7.032
- SnapCLOUD server running GuardianOS version 7.7.032

Requirements Before Starting

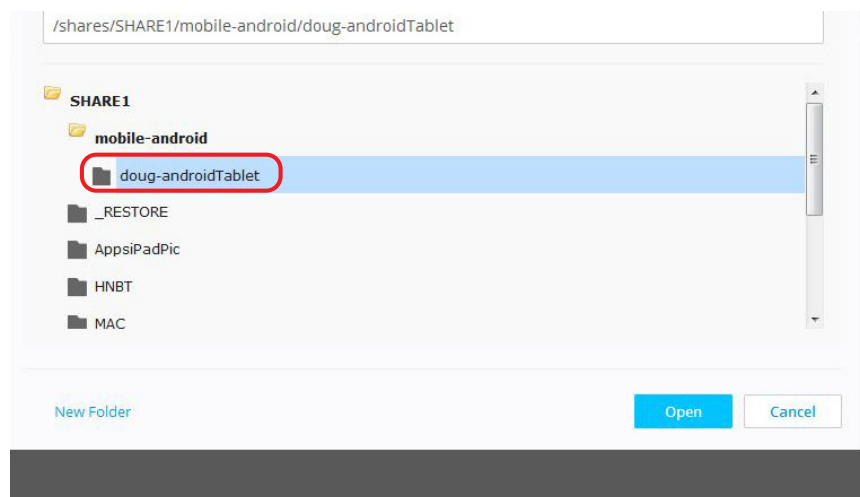
As noted in the Prerequisites section, before installing the agent, it is recommended that these processes be completed. They must be done by an Administrator.

- Create a SnapSync user folder.
- Create a secret key for sharing files.

SnapSync User Folder Creation

To create SnapSync user folders on the SnapServer so data can be shared, the Administrator uses the Web Management Interface SnapExtensions icon (🔗) to access the SnapSync Management Console to add the folder.

The following example shows a user folder called *doug-androidTablet*.



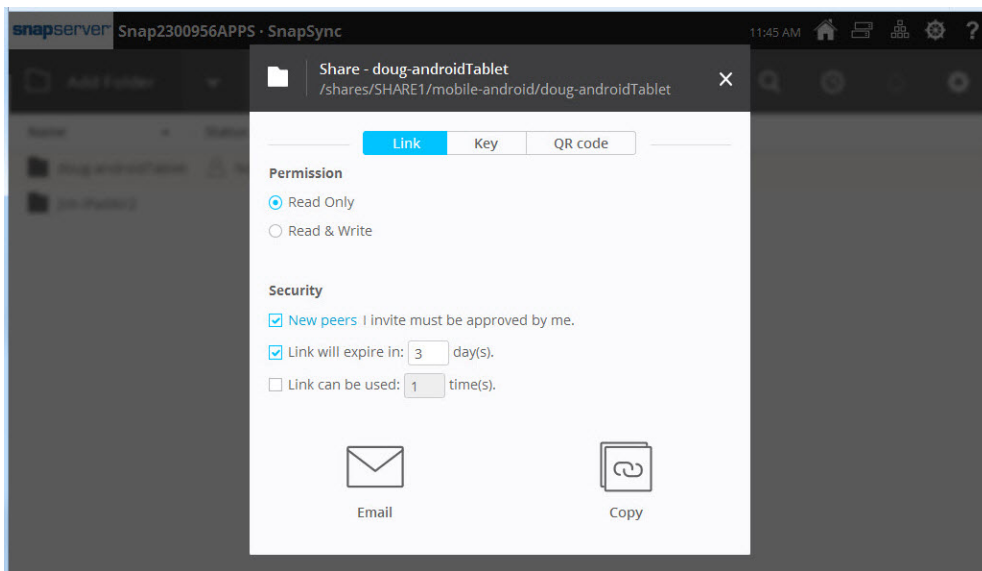
It is recommended that a unique name based on the device type be used to distinguish the device type. The user may have more than one device to synchronize, such as a desktop or laptop.

SnapServer Secret Key Creation

A SnapSync secret key is needed for the Android client to access the SnapServer storage used as a repository for shared SnapSync files.

NOTE: A preconfigured SnapSync user folder is required. See SnapSync User Folder Creation.

1. At the right end of the user folder line, click **Share** to show the options screen.

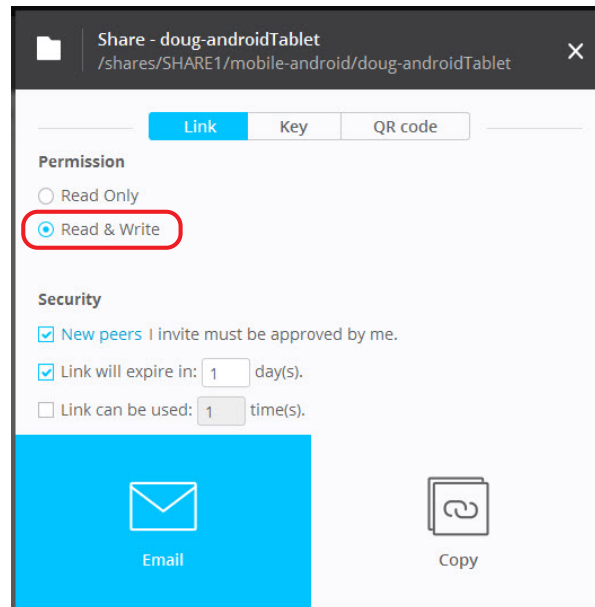


2. Select **Link** at the top of the **Share** options dialog.
3. To share the secret key, select from the following **options**.

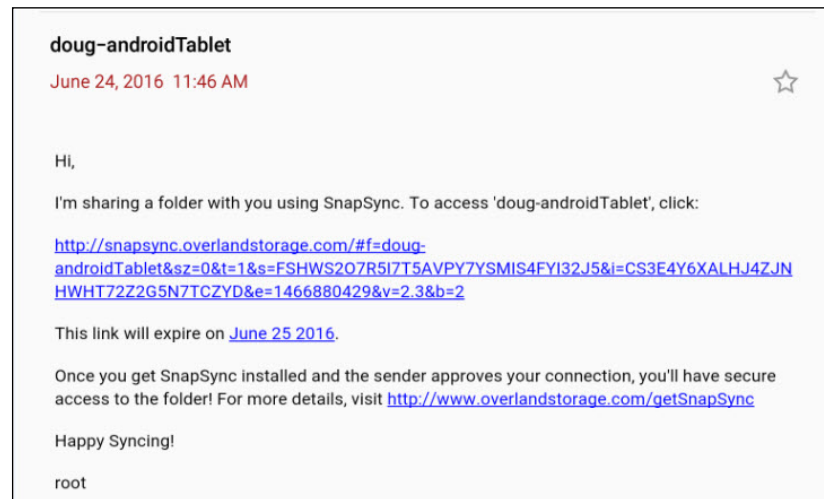
NOTE: Some are selected by default but can be changed.

Option	Choices	Default
Permission	Choose one: <ul style="list-style-type: none"> • Read Only • Read & Write 	Read Only.
Security	Check all that apply: <ul style="list-style-type: none"> • New peers I invite must be approved by me. • Link will expire in [3] day(s). • Link can be used [1] time(s). Numbers in square brackets can be changed.	New peers and expiration date are checked by default.
Share Method	Click one of these buttons: <ul style="list-style-type: none"> • Email • Copy 	None.

4. The Administrator enables the **Read & Write** permission for the Android user. Read & Write permissions provide the ability to create, modify, and save files to the dedicated folder located on the SnapServer storage.



5. The Administrator can either **Email** the link to the user or **Copy** the link to the clipboard. The **Copy** option allows the Administrator to copy the link displayed and send it by a method other than email. For example, send it via a chat session. The **Email** option allows an Android user to click the link in the body of the email. Here is a sample of an email sent from the Administrator to the Android user.

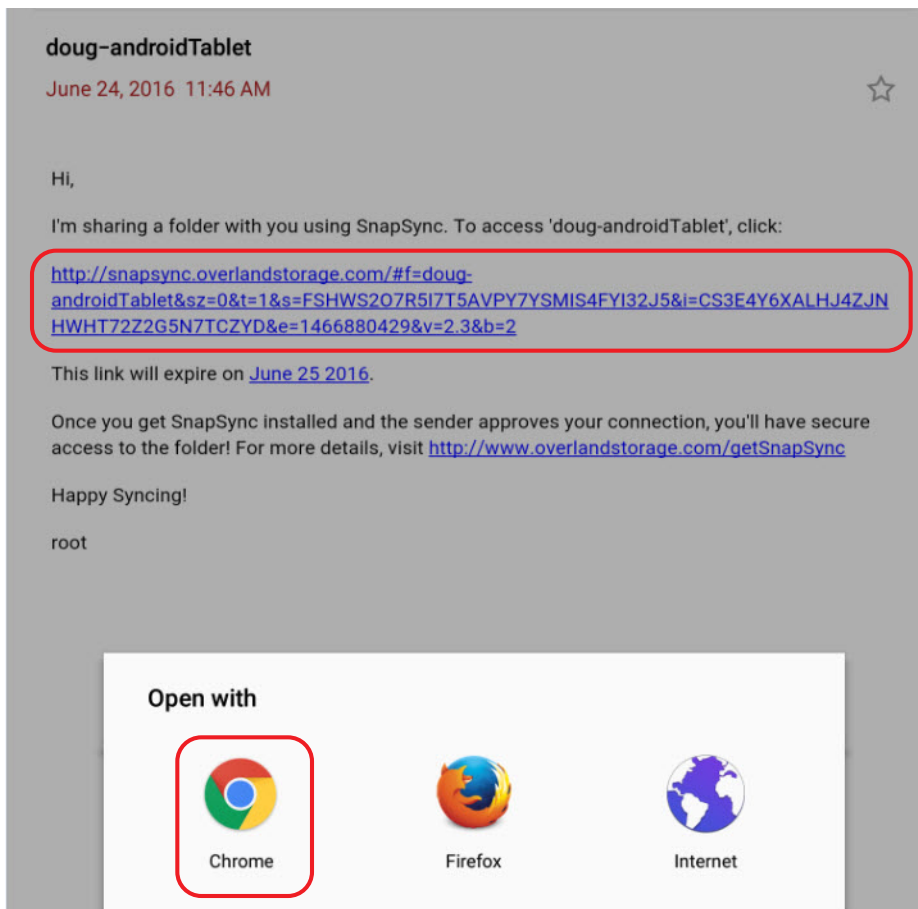


Installation of the SnapSync Agent for Android

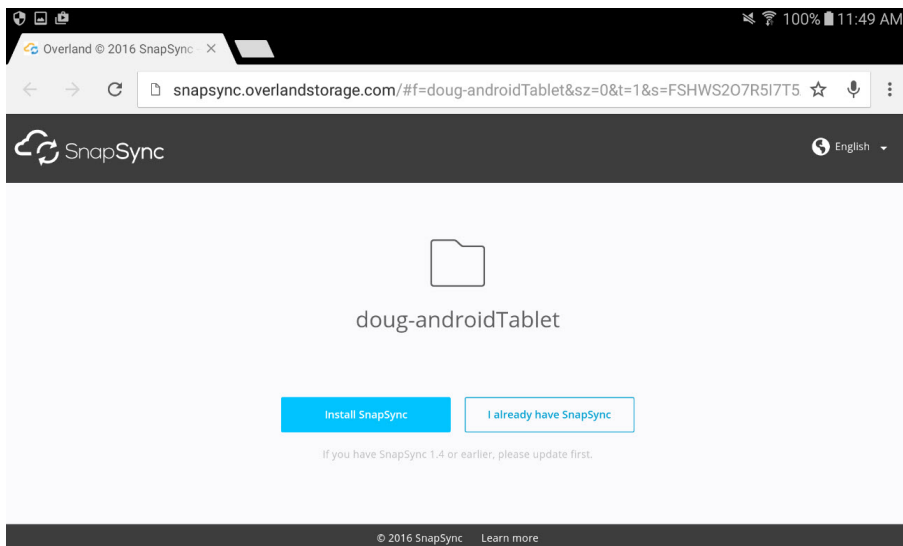
NOTE: If the SnapSync Agent for Android is already installed, continue with the SnapSync Agent for Android Synchronization section.

The SnapSync Agent for Android can be installed when the Administrator provides the secret key via the link to the Android user. For this example, Chrome is used.

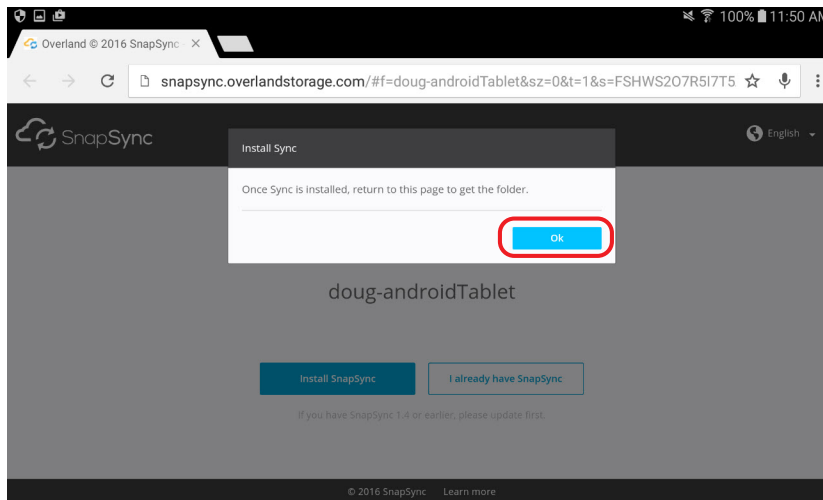
1. Either press the emailed **link** or paste it into a browser, and a selection of devices you can use to open it is shown:



2. Press the **Chrome** option and a window similar to this one is displayed:



- If SnapSync is not currently installed, press **Install SnapSync**.
The installation confirmation dialog is shown.



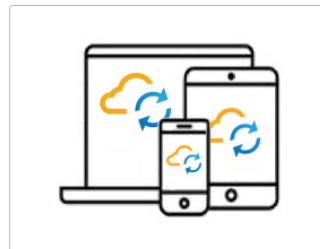
- At the install dialog window, press **OK**.
You are directed to the SnapSync website in order to download the Android SnapSync application. The following link is the URL to the SnapSync website.
<http://support.overlandstorage.com/support/snapsync.htm>

SnapSync

SnapSync enables secure, on-demand, elastic data sharing from on-premise IT managed Snap storage to any device anywhere.

[Buy SnapSync licenses](#)

[Learn More](#)



Downloads

Desktop

Mac

OS X 10.8 Mountain Lion or later
SnapSync 2.3.7.446 (.dmg)

[Free Download](#)

Windows

Windows 7 or later
SnapSync 2.3.7.446 (.exe)

[Free Download, 32-bit](#)

[Free Download, 64-bit](#)

Mobile

iOS

iOS 7 or later

[AppStore](#)

Android

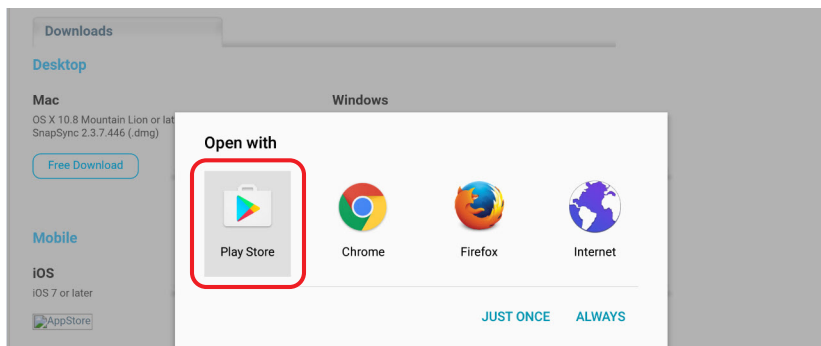
Android 4.0 or later

[AppStore](#)

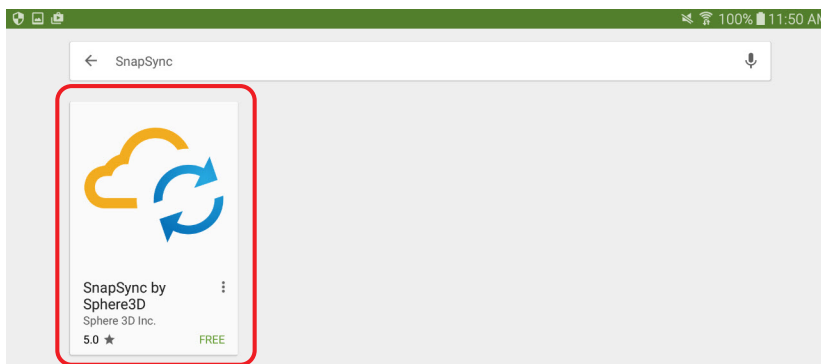
5. Scroll down to the bottom of **Downloads** and, under **Mobile | Android**, press **AppStore**.



6. At the **Open with** dialog, press **Play Store**.



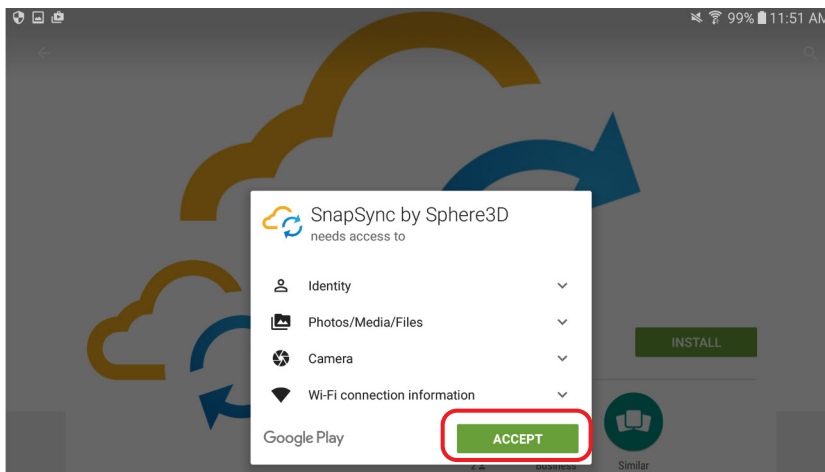
7. At the Play Store, press the **SnapSync by Sphere3D** application.



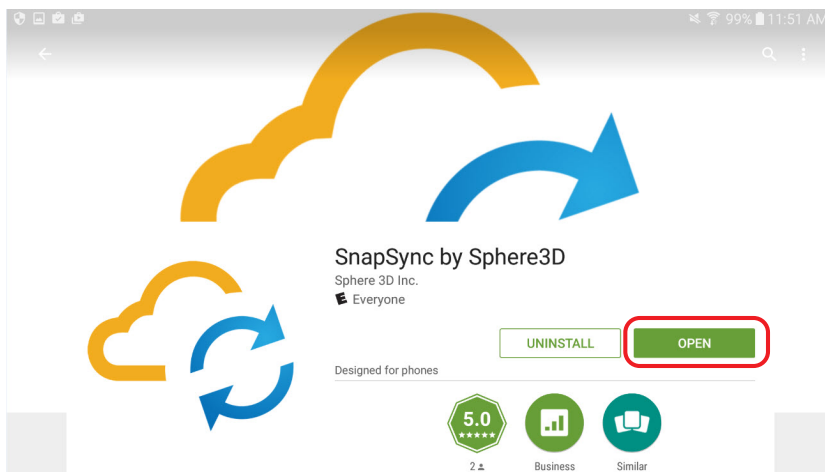
8. At the installation screen, press **INSTALL**.



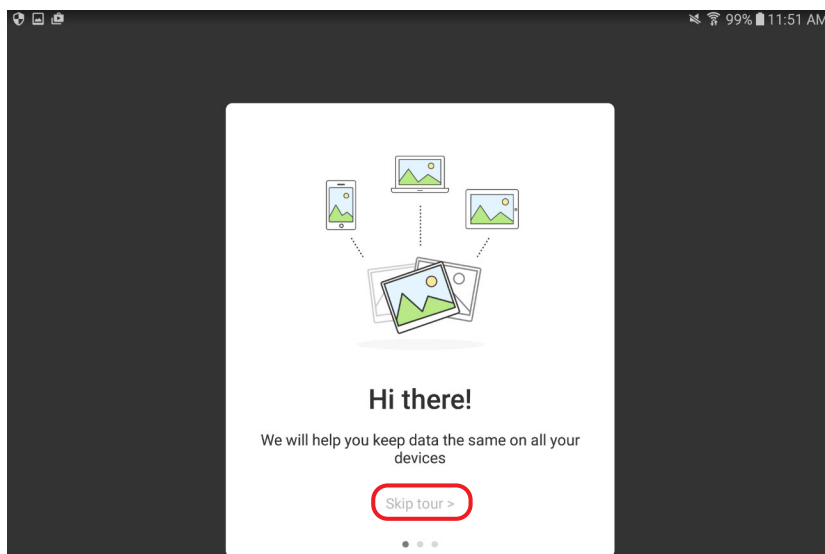
9. When the following dialog window appears, press **ACCEPT**.



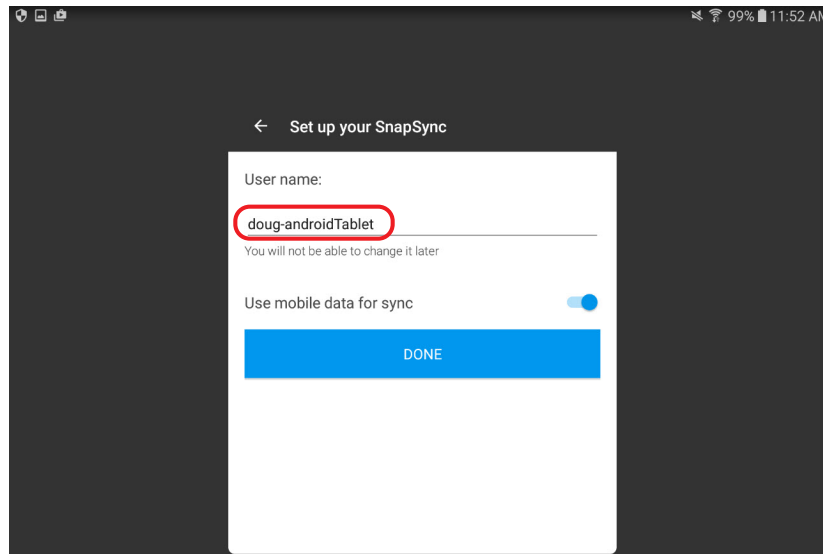
10. When the install finishes, press **OPEN**.



11. Once SnapSync **application** is open, choose either skip the tour or swipe through it.



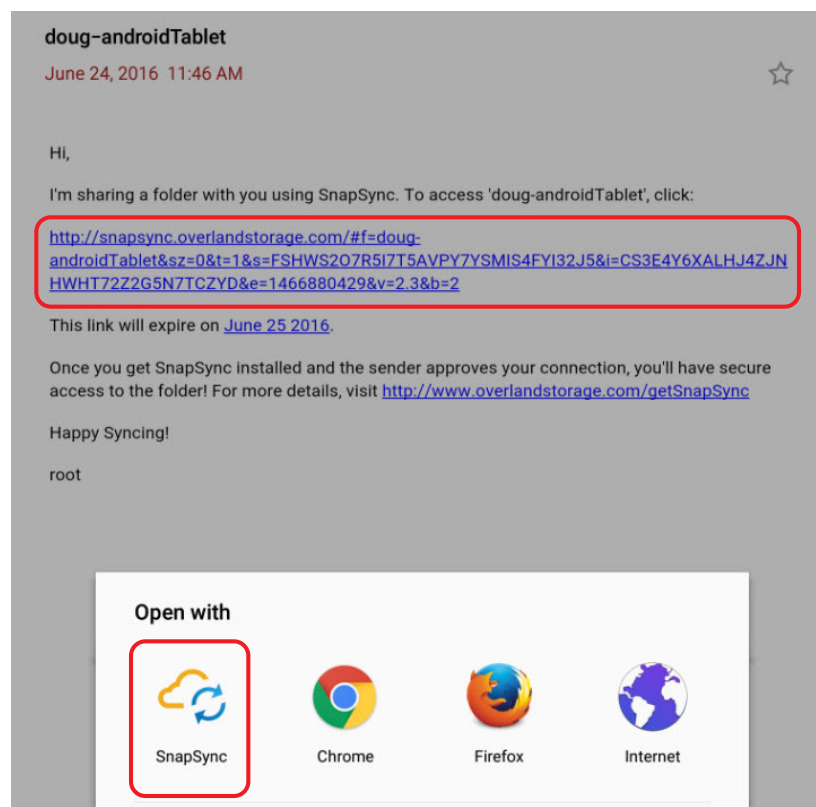
12. When the User Name Setup appears, enter a **unique user name**, and press **DONE**.
For clarity, use a descriptive user name for the mobile device.



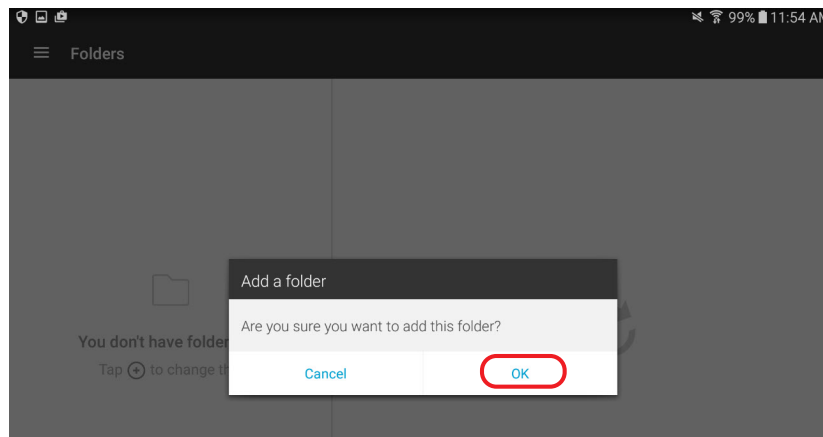
SnapSync Agent for Android Synchronization

Use the following steps to synchronize the SnapSync Agent for Android to the SnapServer storage.

1. Open the original email received from the Administrator and press the **first link**.

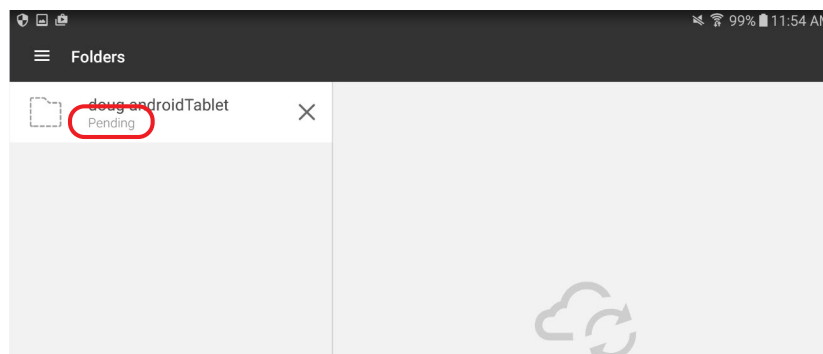


- At the **Open with** dialog, press **SnapSync**.
- When the **Add a folder** window appears, press **OK**.



This synchronizes the new local folder with the folder on the SnapServer.

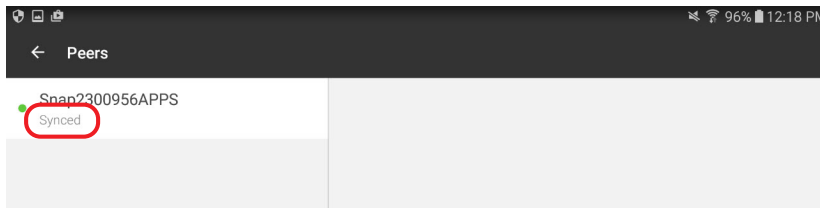
- If the **New peers I invite must be approved by me** option was enabled, a **Pending** status is displayed.
The Administrator must approve it before continuing.



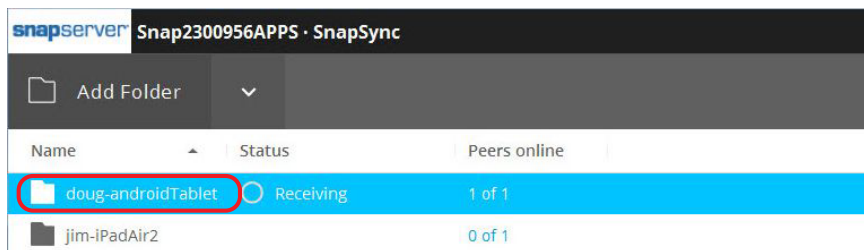
- When alerted about the pending approval, the Administrator clicks the **check mark** to allow access to the Android SnapSync folder located on the share of the SnapServer.



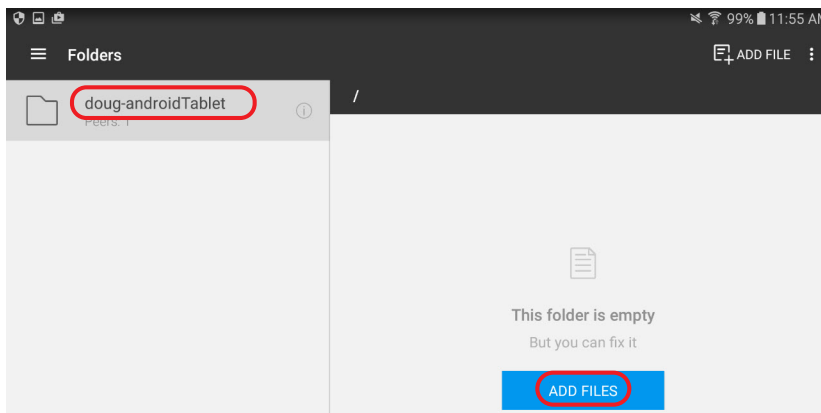
Once synchronized, SnapSync Agent for Android **Peers** list displays the SnapServer as **Synced**.



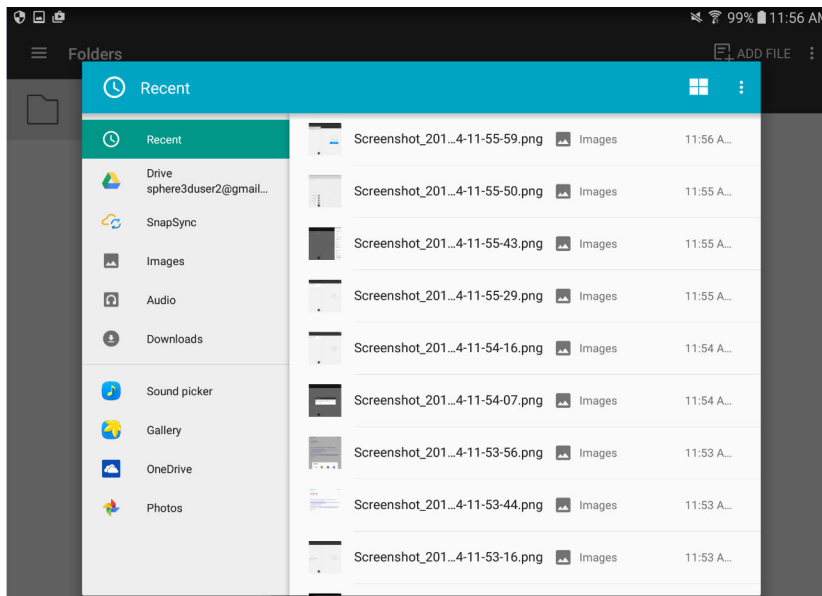
6. Click the **folder name** to open the SnapSync applet.



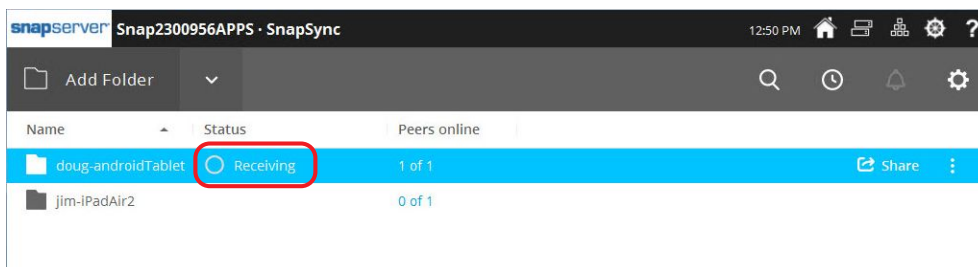
7. In the SnapSync applet, press the **name** of the folder in the left-pane, then press **ADD FILES**.



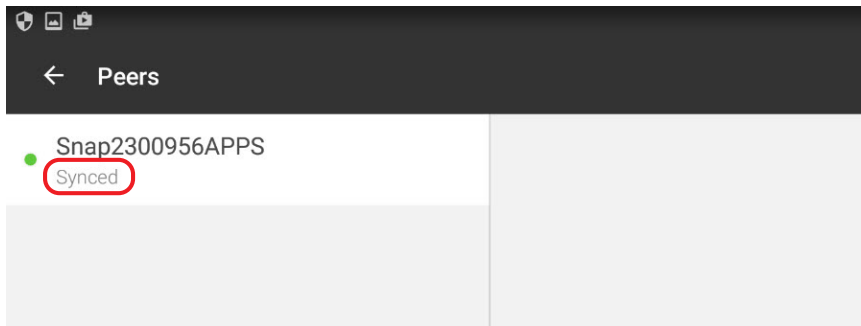
8. Select the **files** to synchronize to the SnapServer.



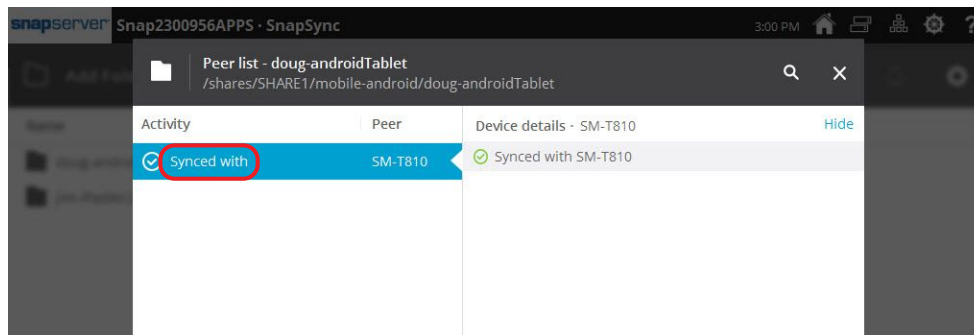
At the SnapServer, the SnapSync status shows **Receiving**.



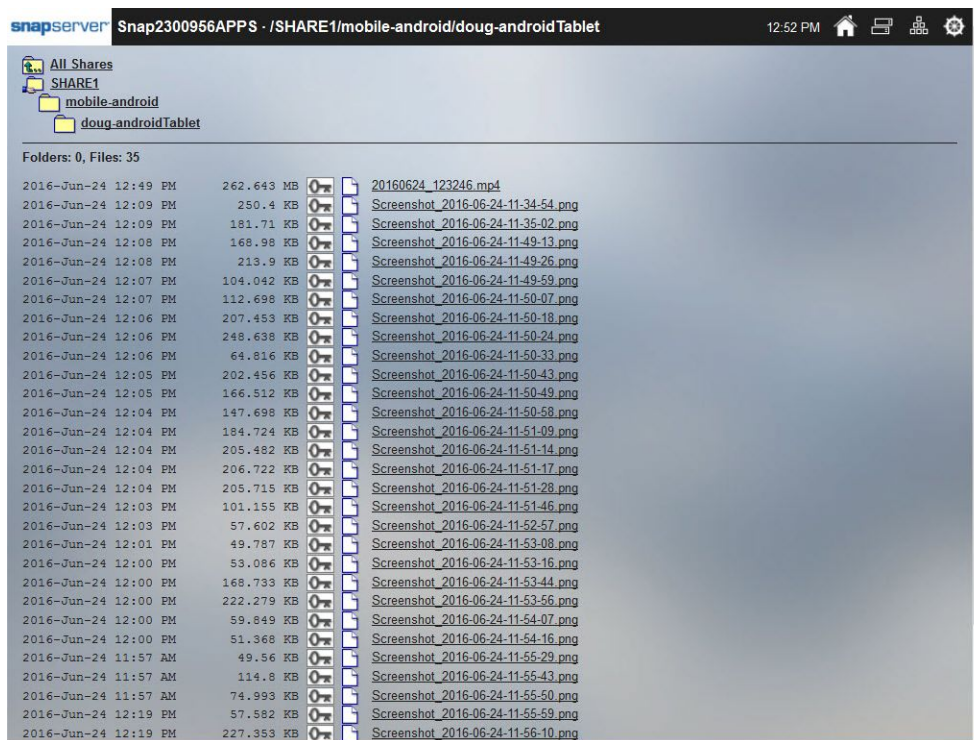
Once synchronization completes, a status is displayed from the SnapSync Agent for Android showing that it is in sync with the SnapServer.



Also, the SnapServer shows it is synchronized with the Android user.



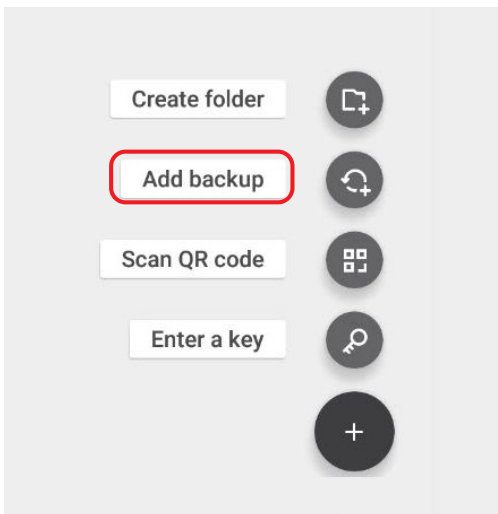
The synchronize data is displayed on the SnapServer at the Home screen for the share.



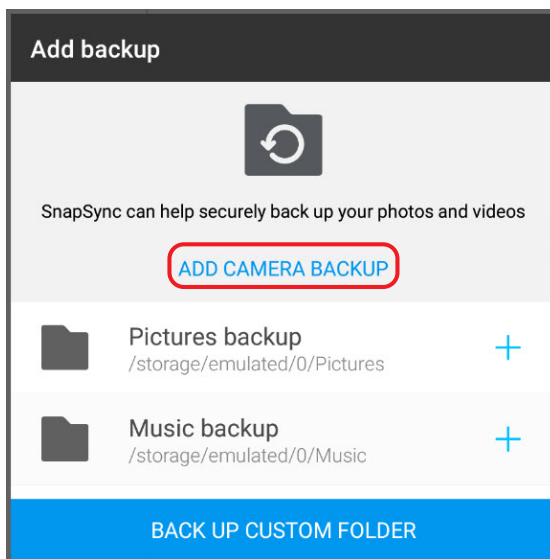
Create an Android Camera Automatic Backup with SnapSync

The following steps walk you through syncing photos and videos automatically on the Android mobile device. This option automatically synchronizes to a SnapServer.

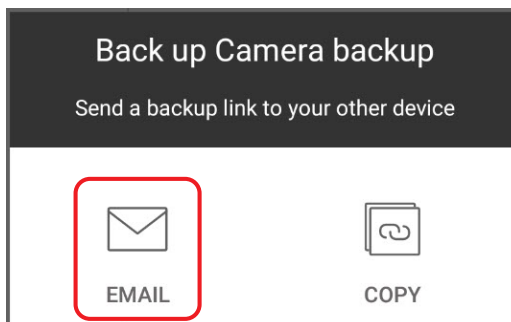
1. From the SnapSync for Android App, press + (Plus Sign) then press **Add backup**.



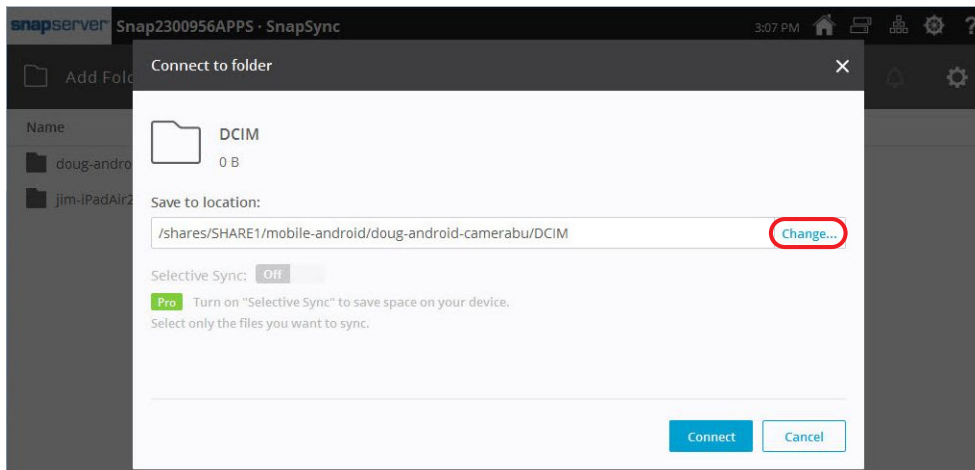
2. Press **ADD CAMERA BACKUP**.



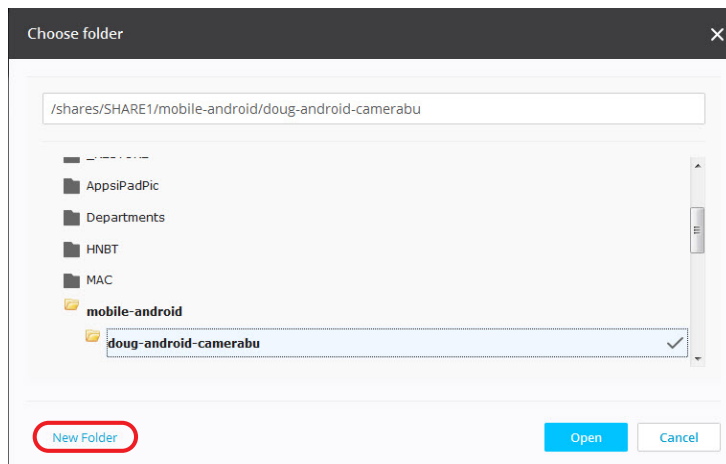
3. Press **Email** and send it to the SnapServer Administrator.



d. To create a new, unique folder for the Android user's camera data, click **Change**.



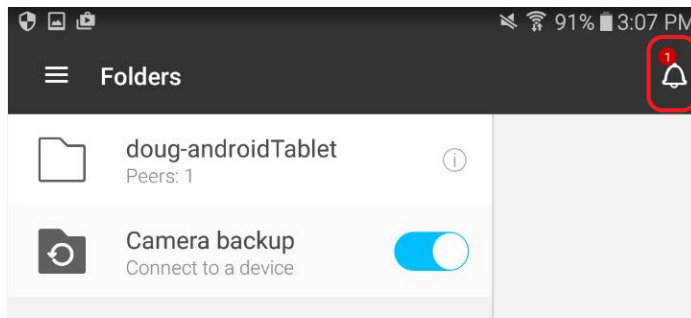
e. At the **Choose folder** dialog, click **New Folder**, create a descriptive name, and click **Open**.



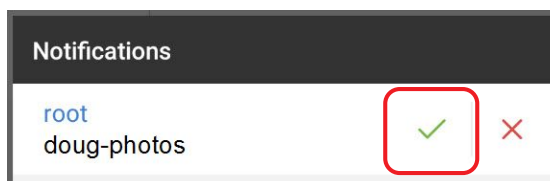
A **Pending approval** status is displayed.



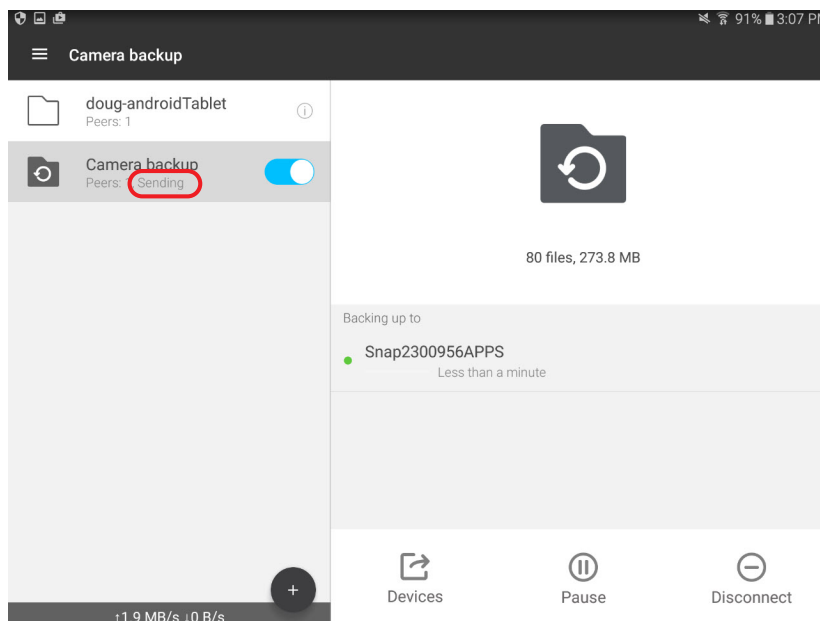
- When the Android user receives the notification in SnapSync, press the **alert icon** on the upper right.



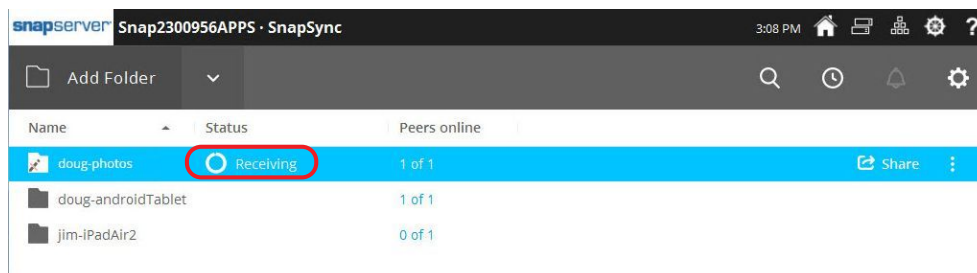
- The Android user press the **green check** option in order to start syncing.



SnapSync on Android will start synchronizing the photos and videos to the SnapServer.



The Web Management Interface shows a status of **Receiving**.



SnapSync Considerations

For the most recent information and details on SnapSync configuration and use, refer to the documentation on the Overland Storage website:

www.overlandstorage.com/getsnapsync

Additional information is available in the Overland Knowledge Base:

<https://community.sphere3d.com/community/documentation/nas/snapsync>

- For SnapSync destinations under a UNIX or Mixed security model, SnapSync creates UNIX personality files and directories, and sets the permissions to 644 (files) or 755 (directories) for UNIX owner root/admingrp. As a result, all users and groups can read the files but only root can modify them.

It is recommended that Windows-only security models are used at the destination, and that Windows permissions are set at the top level destination directory to apply the desired permissions to all files and subdirectories created by SnapSync.

- SnapSync cannot be used to replicate snapshots because it requires the ability to write to the sync location and snapshots are read only.
- SnapSync installs as a hidden directory either on a volume (Traditional RAID) or storage pool (DynamicRAID). If the volume or storage pool is deleted or rolled back from a snapshot, SnapServer attempts to automatically relocate the SnapSync hidden directory to another volume or storage pool.

If there are no more volumes or storage pools, or if none can be found that are large enough, SnapSync is disabled and cannot be re-enabled until a suitable volume or storage pool becomes available. Once a re-enabled, SnapSync must be completely reconfigured again.

- There are SnapSync mobile apps that make synced documents available on iOS and Android mobile devices. Refer to our website for details on downloading, configuring, and using SnapSync mobile apps.
- SnapSync changes the files and folders ownership from admin to root after it finishes syncing. If you edit the same file with Administrator credentials on the target server and then try to save it, you will get an “access is denied” error from the windows client.