

Lab - Passcode Locks

Introduction

For most users, these Android or iOS devices are on the go with the users, and they are usually power on all the time. If the device is lost or stolen, the passcode can prevent unauthorized access. In this lab, you will set a passcode lock, change a passcode lock, and fail passcode authentication. You will also remove a passcode lock.

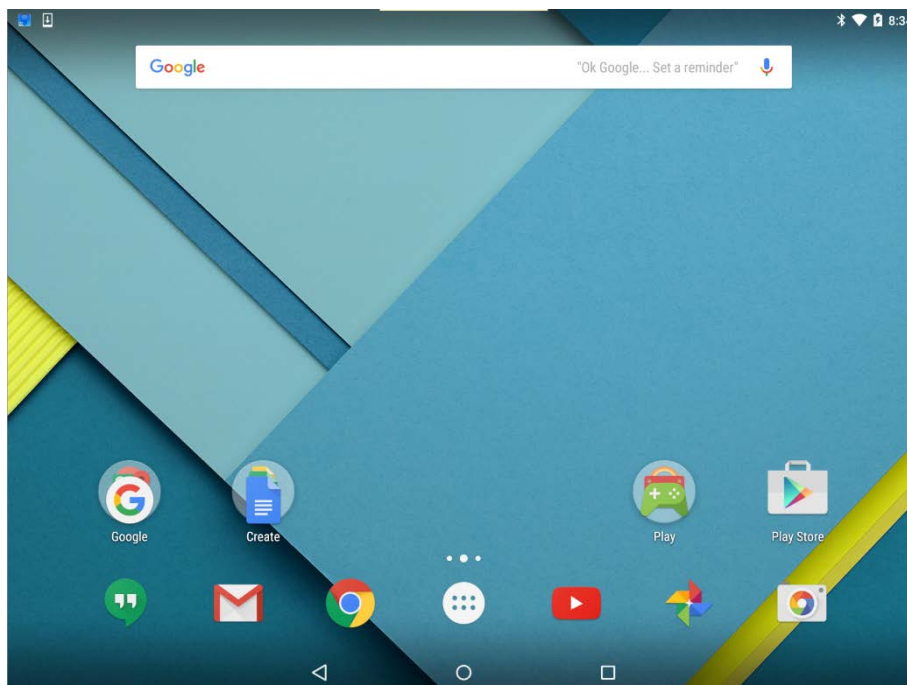
Recommended Equipment

- Android tablet or smartphone running Android version 5.0 or higher.
- iOS tablet or smartphone running iOS version 7.0 or higher

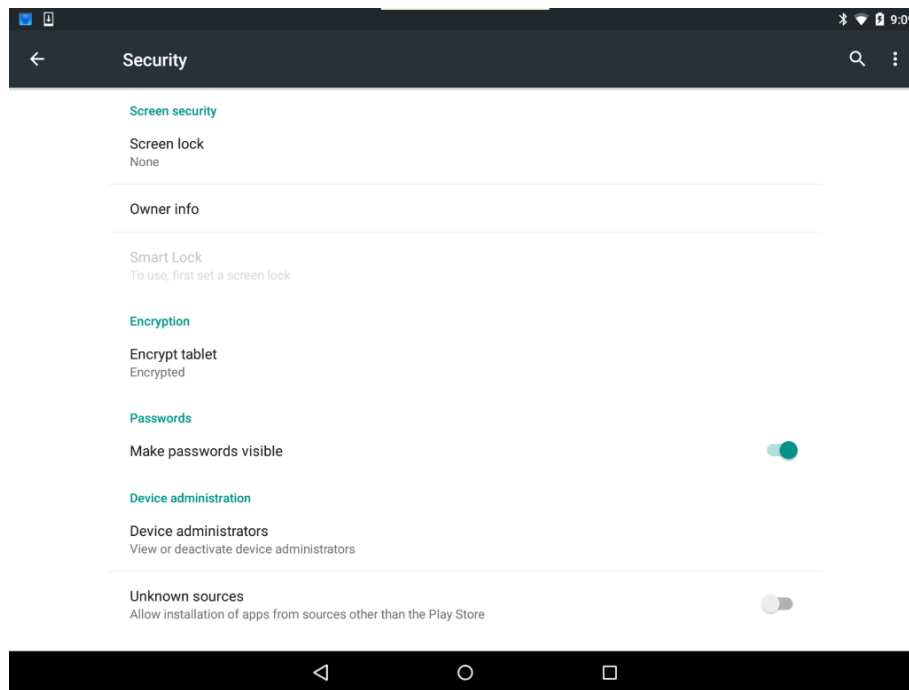
Part 1: Passcode Lock on Android

Step 1: Configure Passcode Lock on an Android Device.

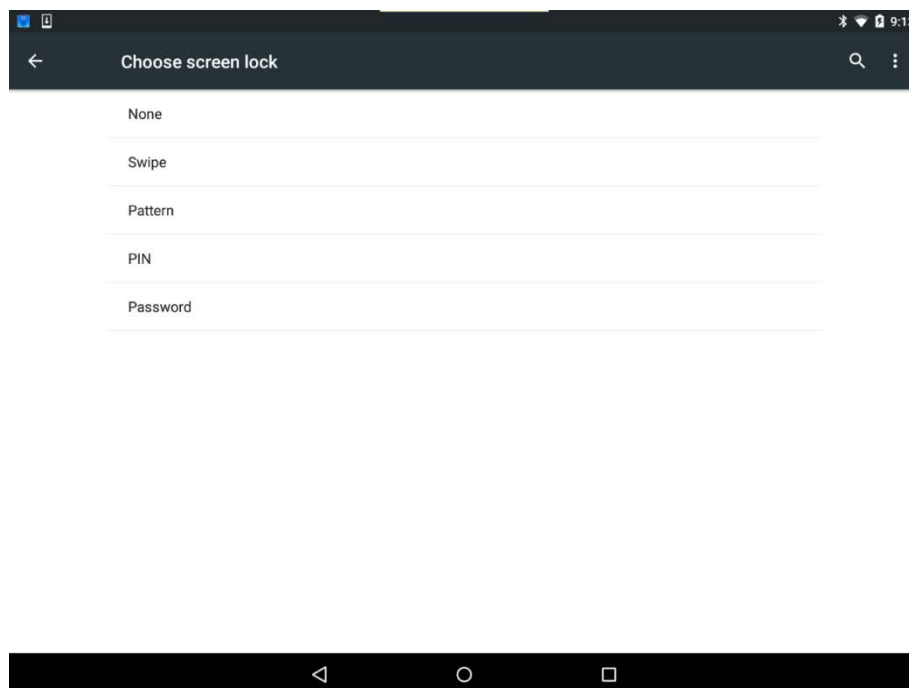
- Turn on the device and get to the **Home screen**.



- b. Go to **All apps > Settings > Security** (under **Personal**). The **Security** screen appears.



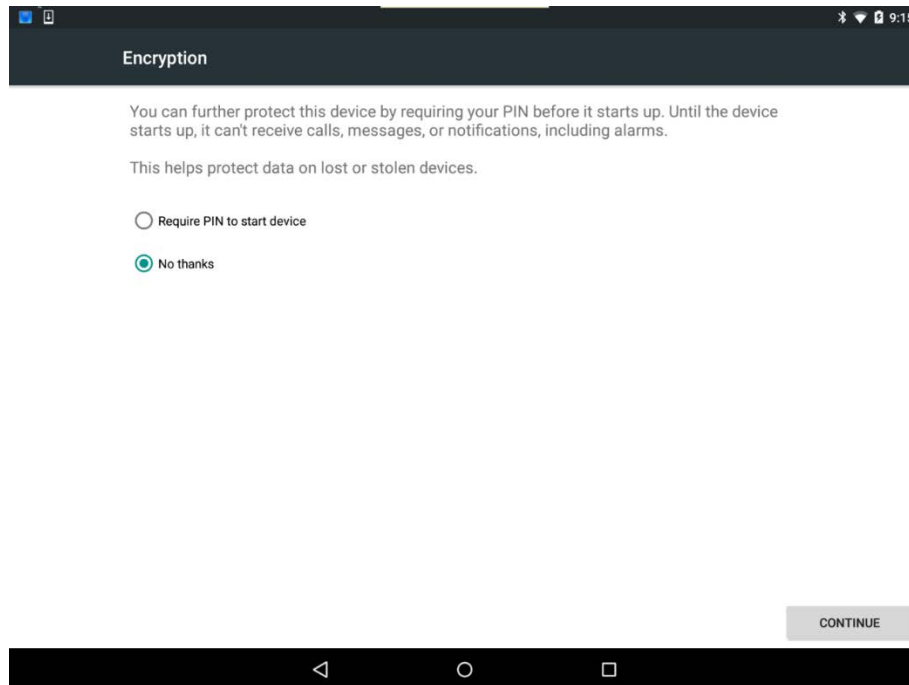
- c. Touch **Screen Lock** to choose a method for locking the screen. Android 5.0 supports **None** (no lock), **Swipe**, **Pattern**, **PIN** and **Password**.



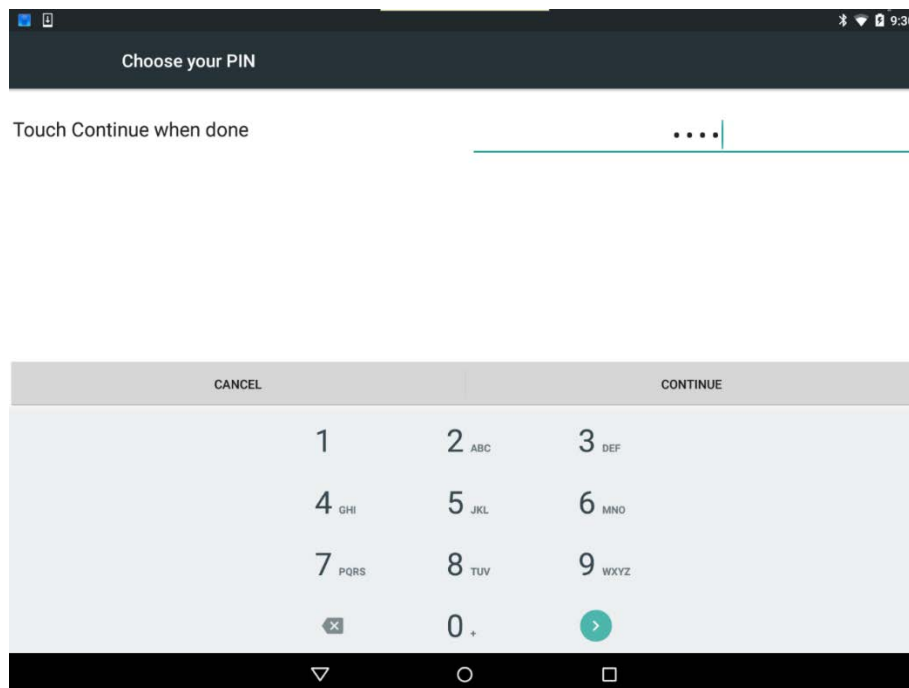
- d. Touch **PIN**.

- e. If the **Encryption** screen appears, Android asks if you want to use the PIN to encrypt the device. Touch **No thanks** and then touch **CONTINUE** to continue.

This is useful as the device's filesystem will be encrypted based on PIN, making it unreadable until the PIN is provided. While this feature increases security, it is out of the scope of this lab.



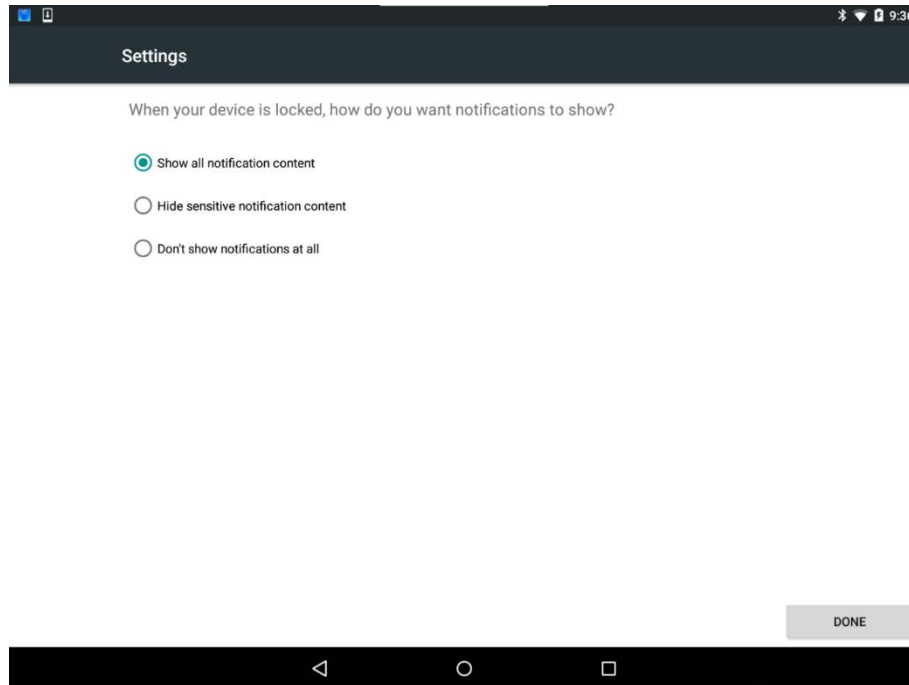
- f. In the **Choose your PIN** screen, enter **1234**. Touch **CONTINUE**.



- g. Type **1234** to confirm the **PIN**. Touch **OK**.

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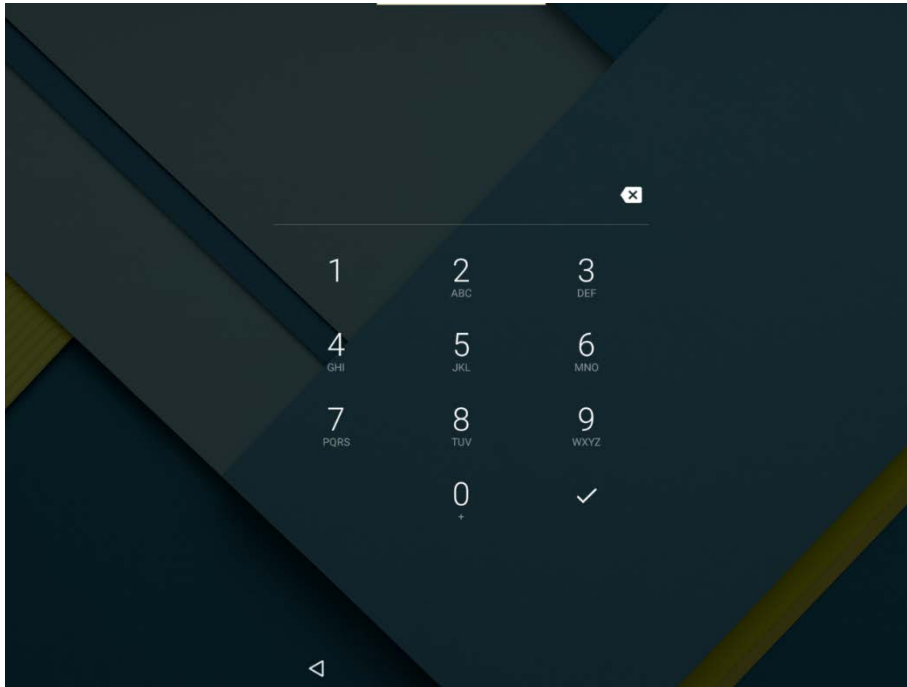
- h. Touch **Show all notification content** to have Android displaying all notifications on the lock screen. Touch **Done**.



Step 2: Use the PIN to Unlock the Screen.

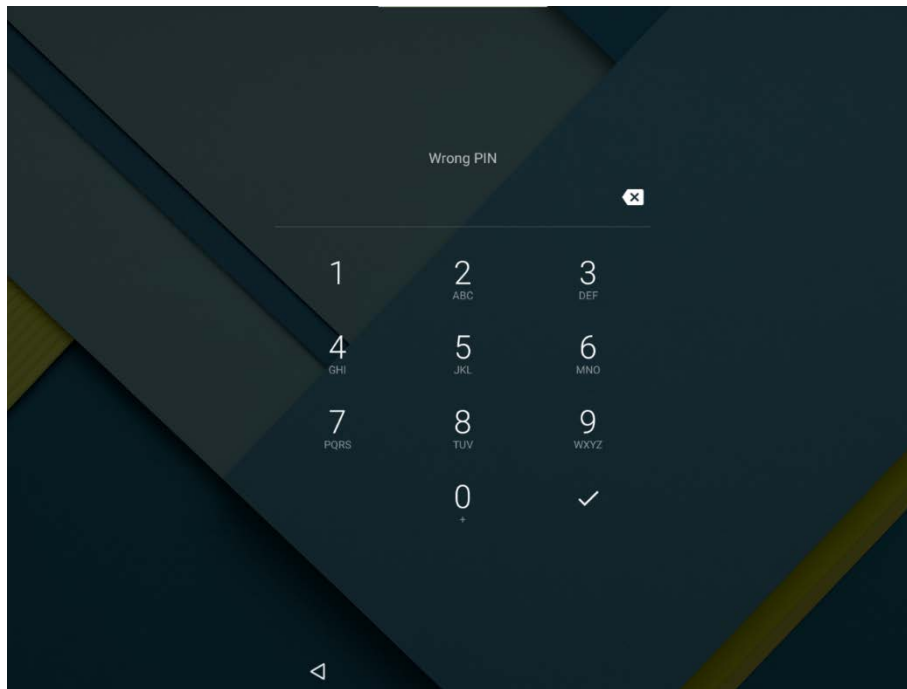
- Press the **Home** button to return to the **home screen**.
- Press the **Power** button briefly to lock the screen. The device will go into sleep mode and the screen will go dark.

- c. Press the **Power** button briefly to wake up the device. Notice that the device will now require the **PIN** before allowing access.



- d. Enter **1234**, the previously configured **PIN**. Touch the **check mark** on the bottom right-side of the number pad. What happens?
- e. Press the **Power** button briefly to lock the device.
- f. Press the **Power** button briefly to wake up the device.
- g. Type **4321**. Notice this is not the PIN configured in the device.

- h. Touch **check mark** on the bottom right-side of the number pad. What happens?



- i. Enter the incorrect **PIN** 4 more times. What happens?

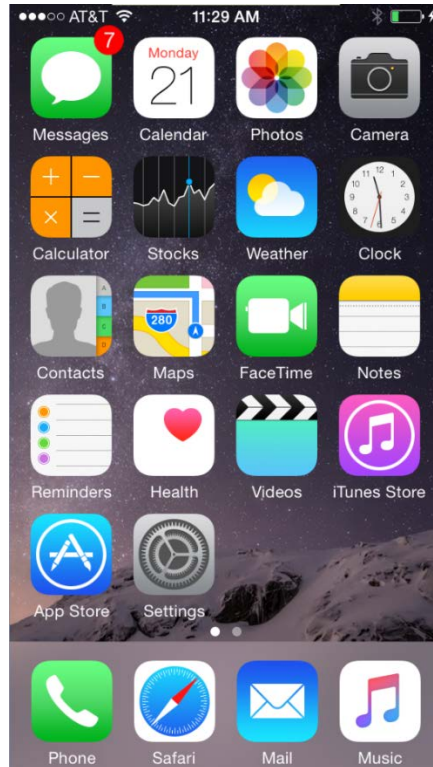
Repeatedly incorrect PINs is an indicator that someone is trying to guess the PIN. As a security measure, Android forces the user to wait 30 seconds before attempting another guess.

- j. Touch **OK** when 30 seconds have passed. Notice that Android will keep a countdown in the background.
- k. After 30 seconds, enter the correct PIN to unlock the device.
- l. Go to **All apps > Settings > Security** (under **Personal**).
- m. Touch **Screen Lock**. What happens? Explain.
- n. Type the correct PIN.
- o. Touch **CONTINUE**.
- p. Touch **None**.
- q. Press the **power** button briefly to lock the screen.
- r. Press the **power** button briefly to unlock the screen. What happens?

Part 2: Passcode Lock on iOS

Step 1: Configure Passcode Lock on an iOS Device.

- a. Turn on the device and get to the **Home** screen. Touch the **Settings** icon.



- b. Go to **Settings > Passcode**. The **Passcode Lock** screen appears.

Note: For some iOS versions, go to **Settings > Touch ID & Passcode**.



- c. Touch **Turn Passcode On**. The **Set Passcode** screen appears.

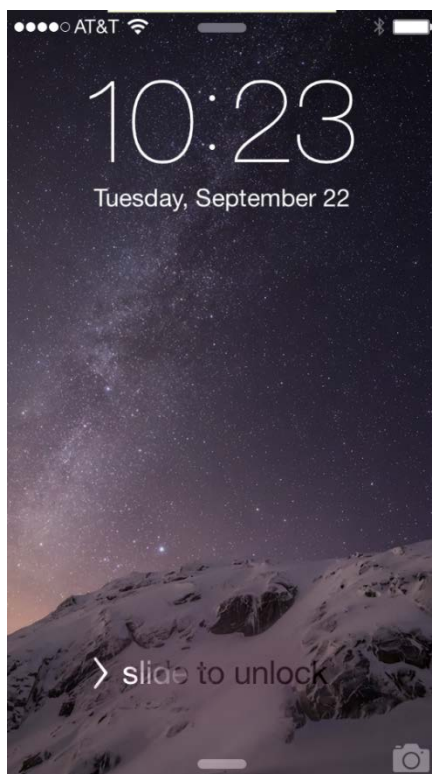


- d. Type **1234** as the passcode.
e. Re-enter **1234** to confirm the passcode.

Step 2: Use the Passcode to Unlock the Screen.

- a. Press the **Power** button briefly to lock the device.

- b. Press the **Power** button briefly to unlock the device.



- c. Slide to unlock the device.



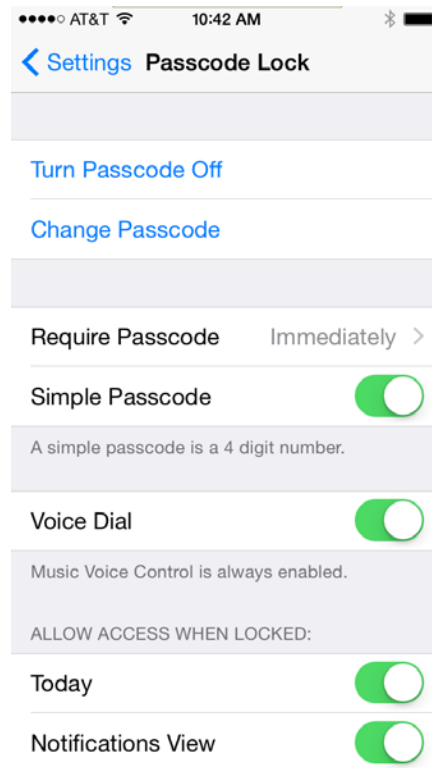
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- d. Enter the passcode **1234**. What happens?
- e. Press the **Power** button briefly to lock the device.
- f. Press the **Power** button briefly to unlock the device.
- g. Type **4321**. Notice this is not the passcode configured in the device.
- h. Touch **OK**. What happens?
- i. Enter the incorrect PIN 5 more times. What happens?



- j. After 1 minute, enter the correct passcode.
- k. Go to **Settings > Passcode**. What happens? Explain.

- l. Type the correct PIN. The **Passcode Lock** screen appears.



- m. Touch **Turn Passcode Off**.
- n. Type the correct PIN.
- o. Press the **Power** button briefly to lock the device.
- p. Press the **Power** button briefly to unlock the device. What happens?