BAND

Operating System Installation Guide

Version 1.4.0

Contents

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Document Revision History

Wednesday, July 18th, 2017
- Initial release of documentation.

Wednesday, April 10th, 2019
- Flash USB instructions

Installation

Preparations

To install the band operating system, you must have:

- Intel Compute Stick, model STK1AW32SC
- 32 GB, EFI-formatted USB drive containing the Band OS installer

Network

Port Usage

| Protocol	Port	Direction	Purpose
HTTPS	443	Outbound	HTTPS Content
HTTP	80	Outbound	HTTP Content
SSH	22	Inbound	Device administration

System Requirements

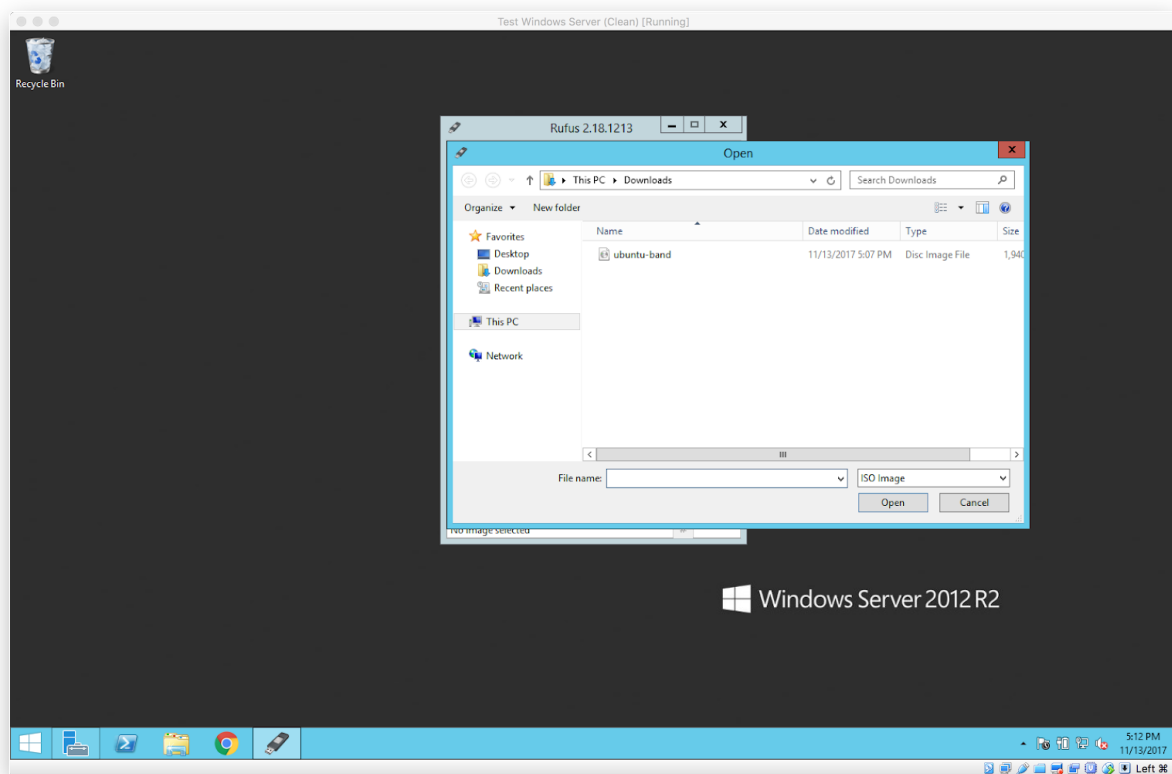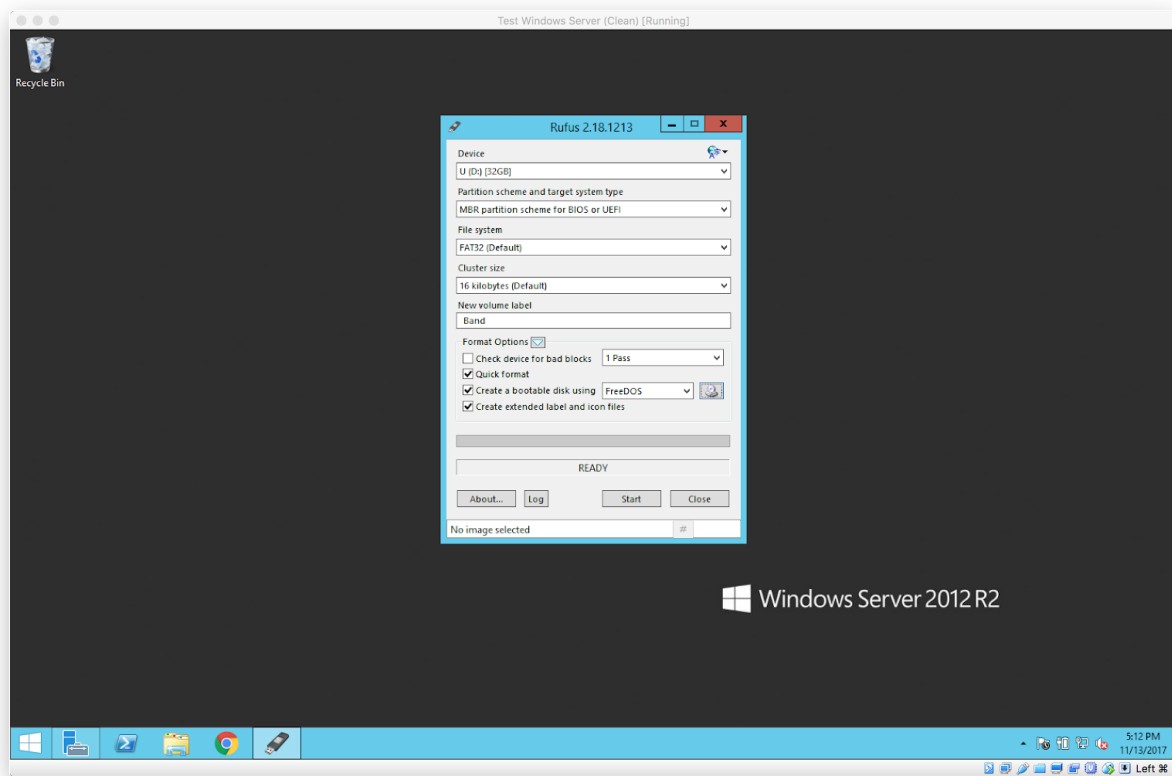### Supported Platforms
- Intel Compute Stick, model STK1AW32SC

Flash USB with ISO

Plug the USB drive into a Windows computer, download and run the Rufus application, and select the USB drive from the the the **Devices** menu.

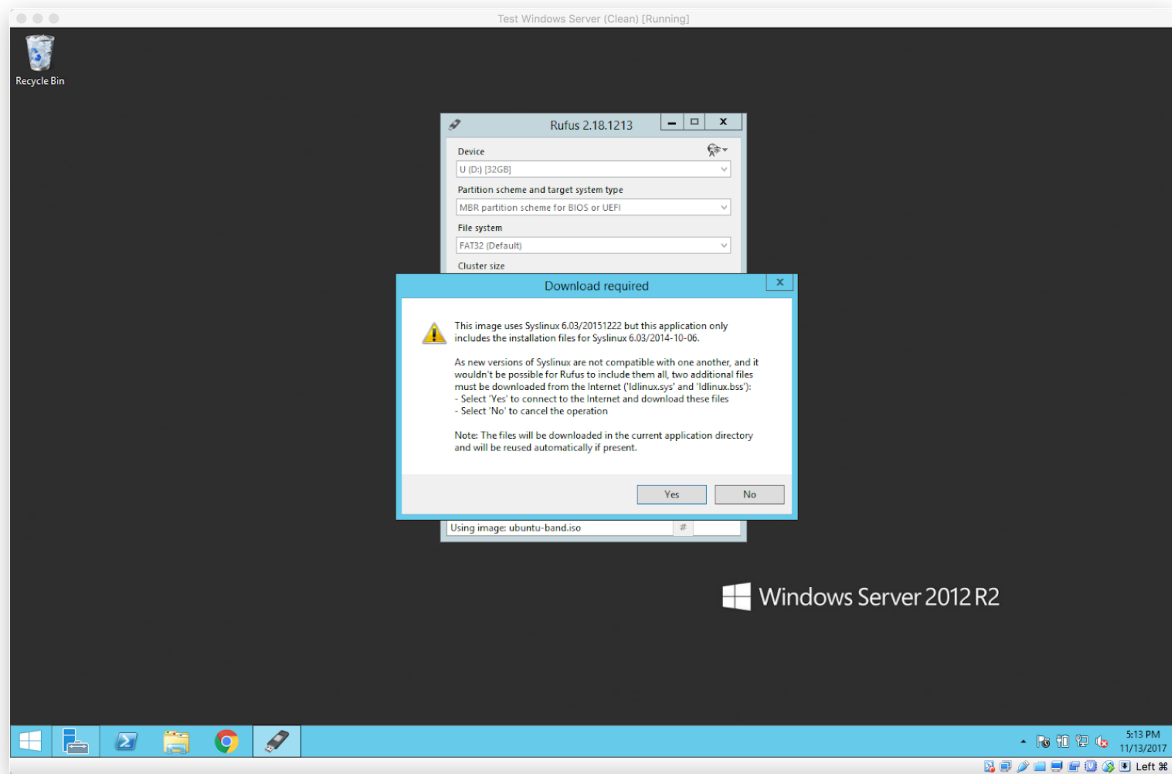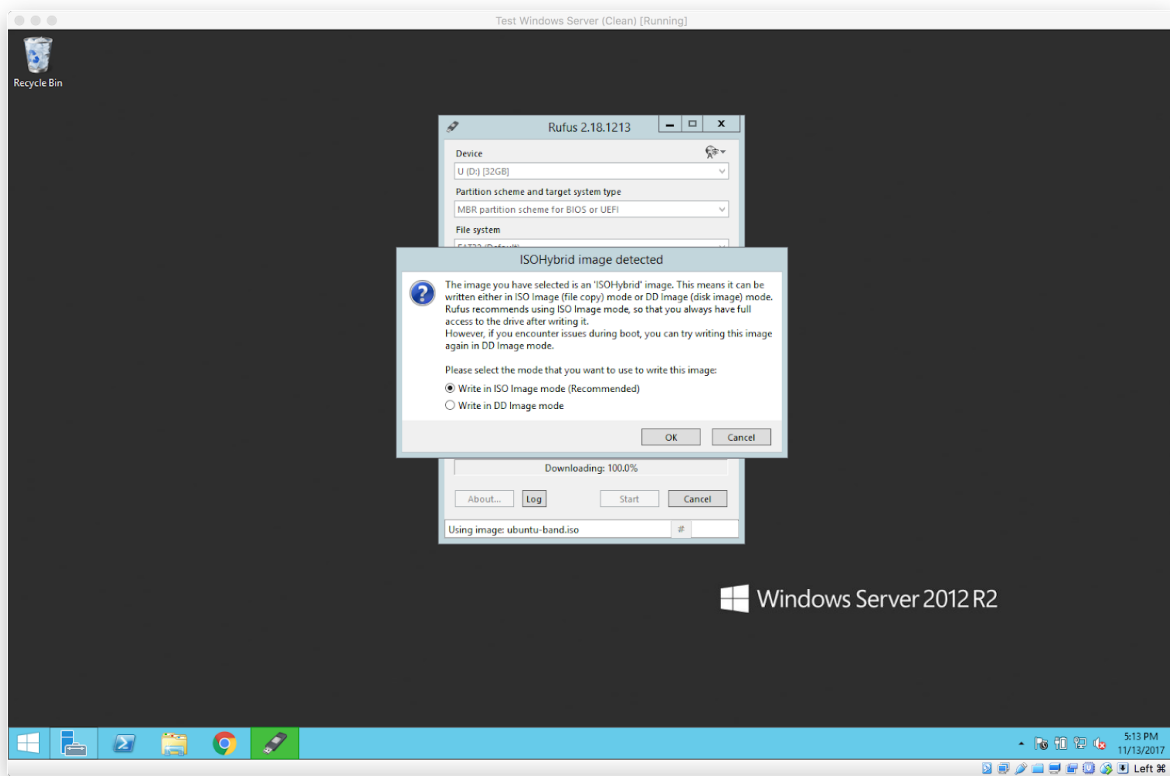https://rufus.akeo.ie/downloads/rufus-2.18.exe
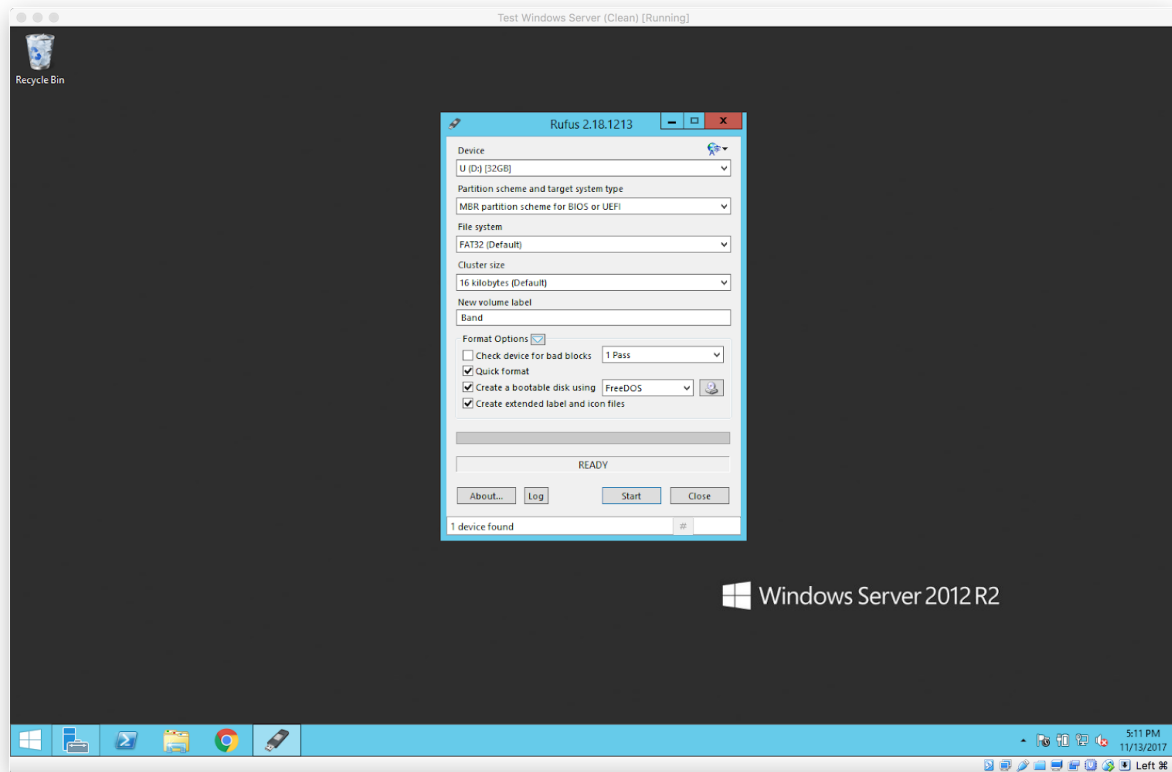
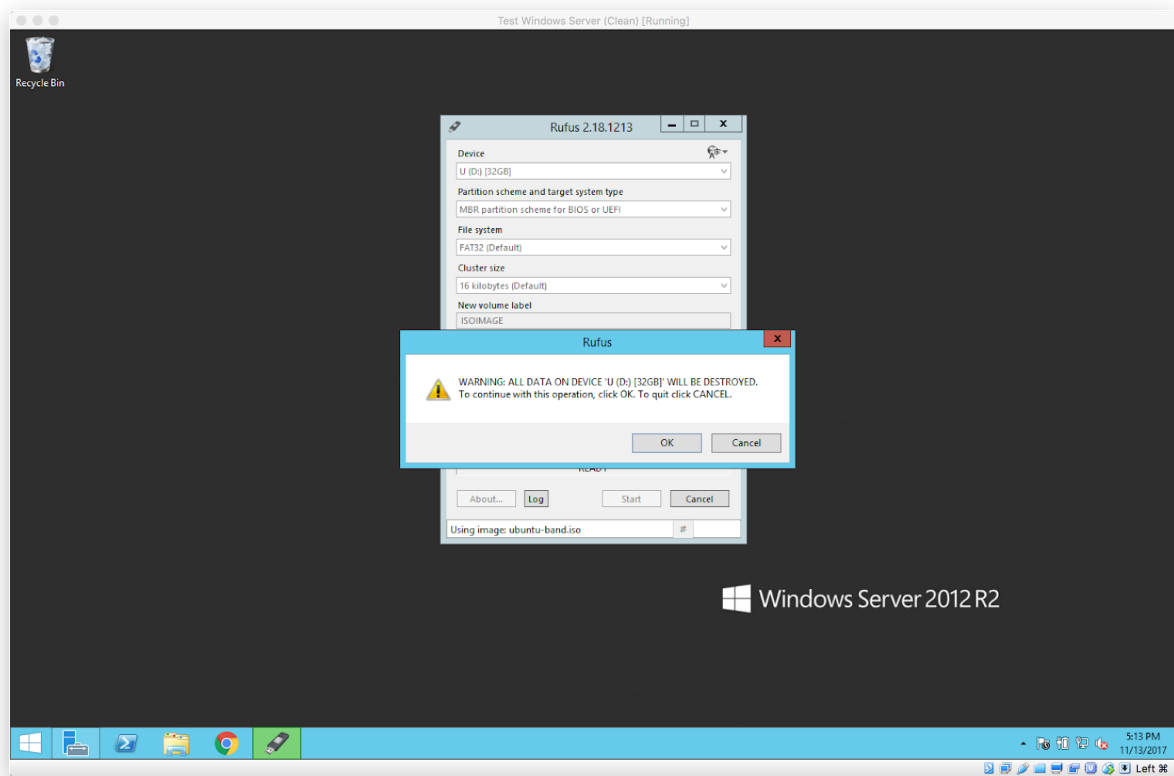Click on the **Disk** icon to select the Band OS .ISO file.

Click the **Start** button to start writing Band OS .ISO to the USB drive. If prompted to download libraries from internet, click **Yes**.
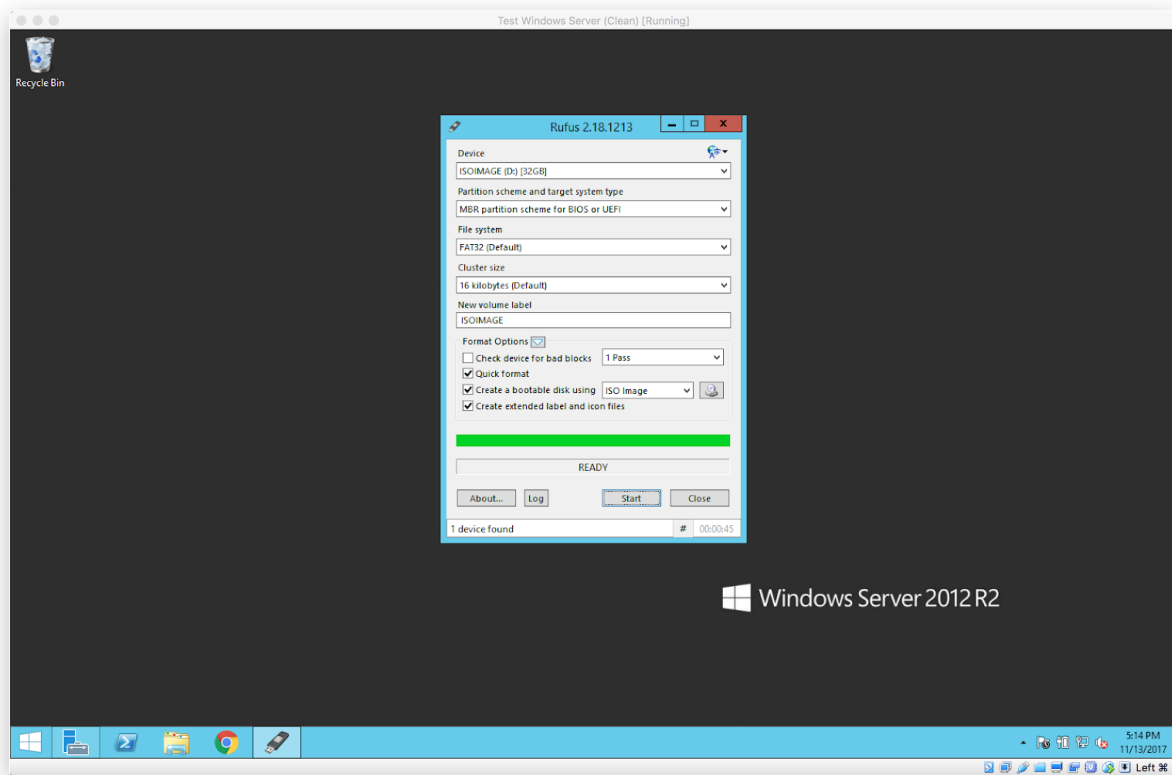
From the **ISO/Hybrid Image Detected** prompt, select **ISO** and click **OK**.

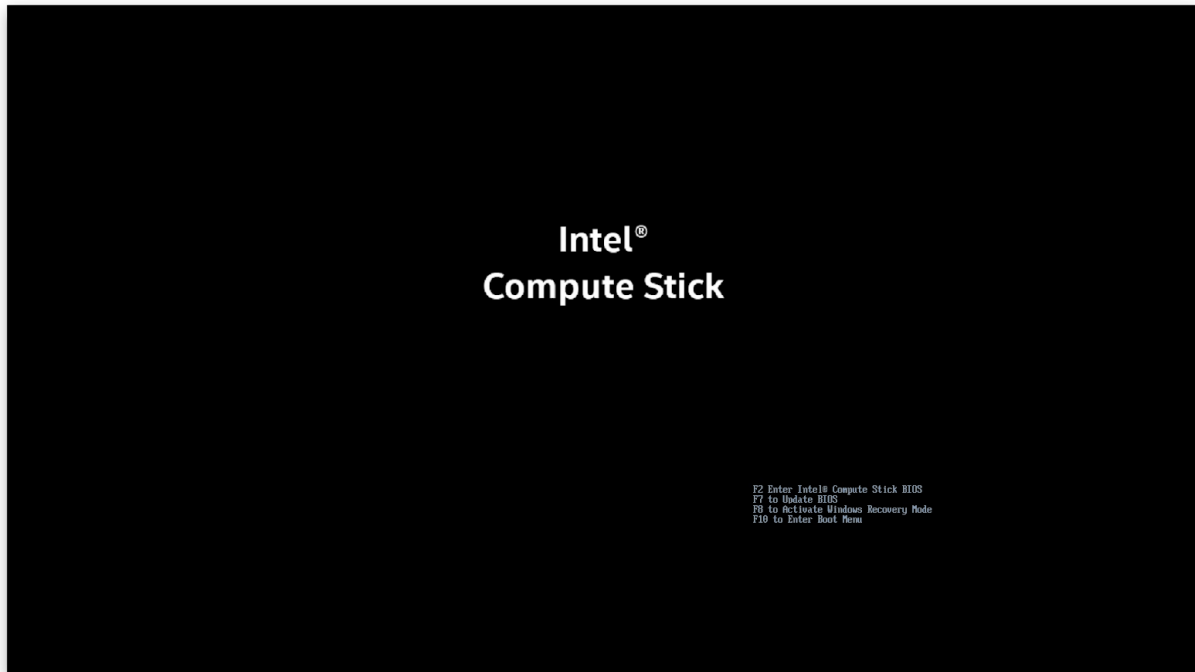From the data warning prompt, click **OK**.

It takes 1-2 mins to complete writing. When the progress bar reaches 100%, unplug the USB drive and plug it into Intel Compute Stick.
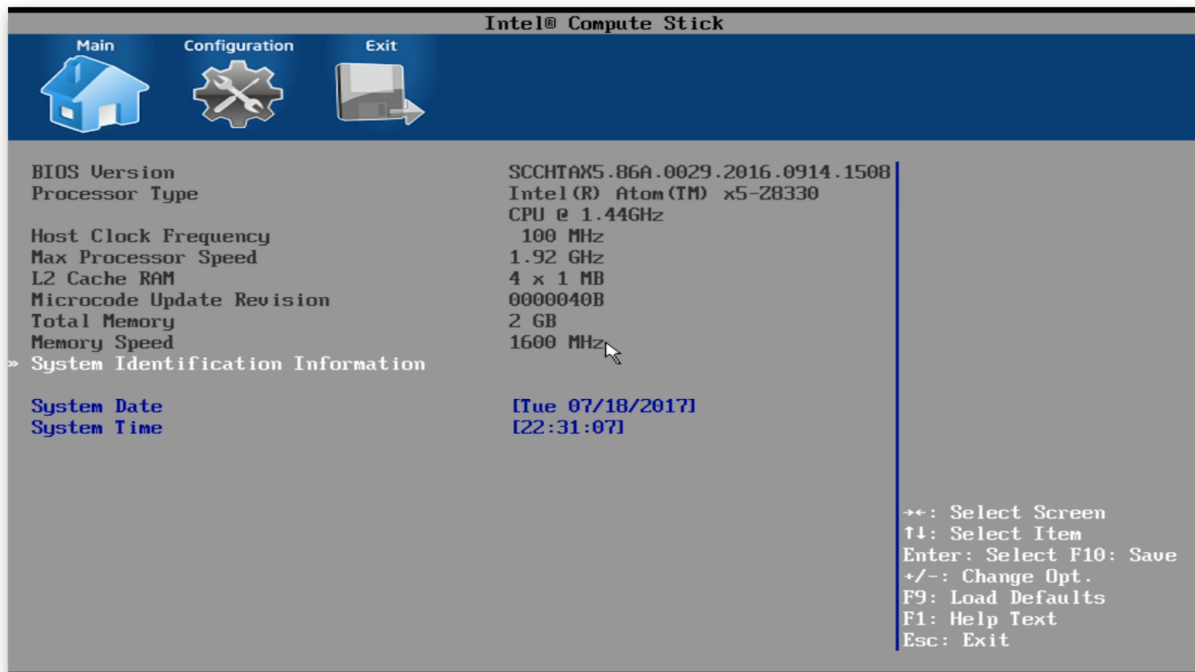
Boot with USB

Connect the STK1AW32SC to an HDMI display, keyboard, and the USB drive. Power on the device, and during the loading prompt, press **F2** to enter the **Intel Compute Stick BIOS**.

From the BIOS **Main** screen, press ➜ to page right to the BIOS **Configuration** screen.

From the BIOS **Configuration** screen, press ↓ to reach **Select Operating System** and press **Enter**.
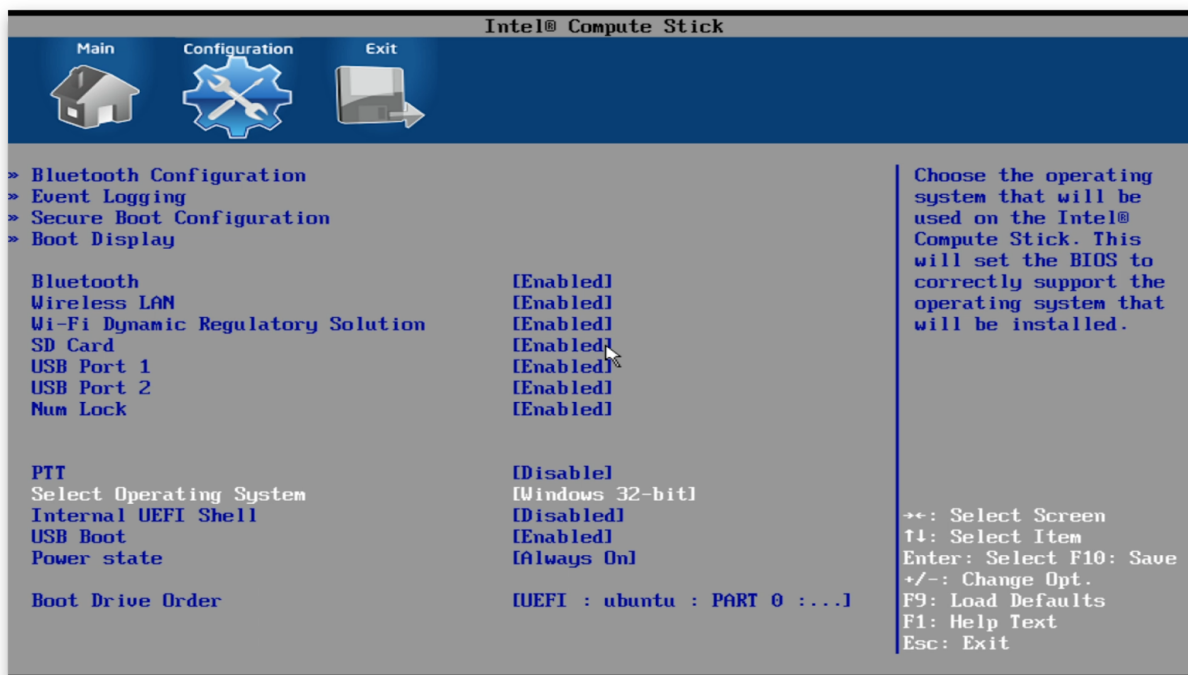
From the **Select Operating System** dialog, press ⬆ to reach **Windows 64-bit** and press **Enter**.

From the BIOS **Configuration** screen, press ⬆ to reach **Wireless LAN** and press **Enter**.
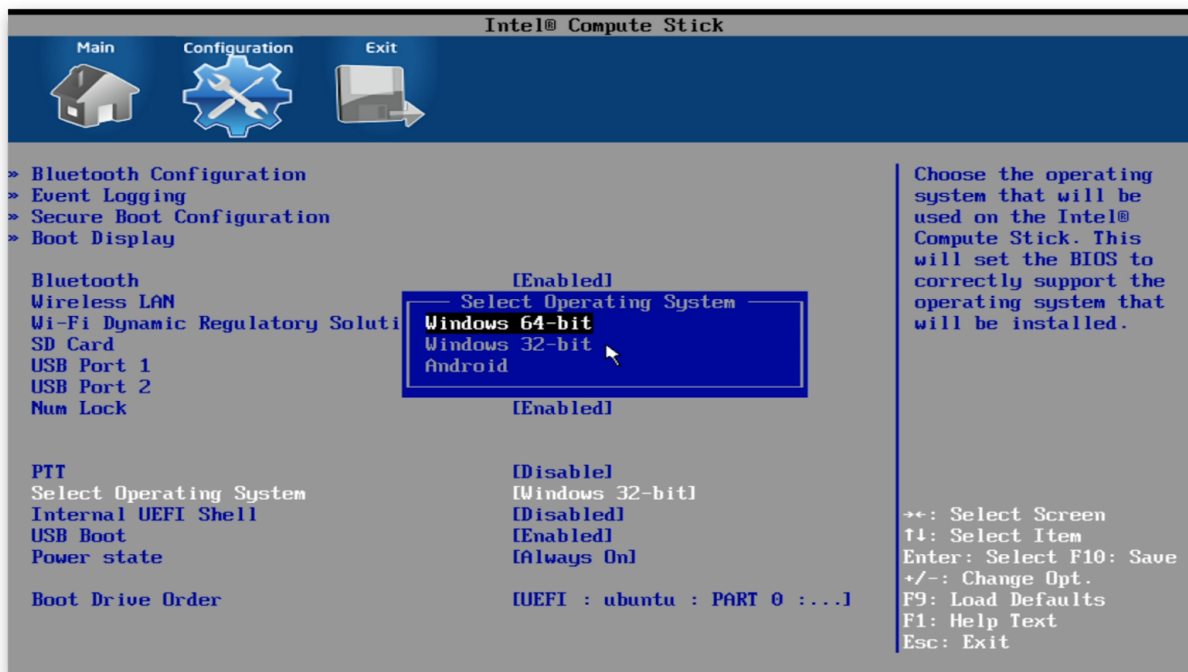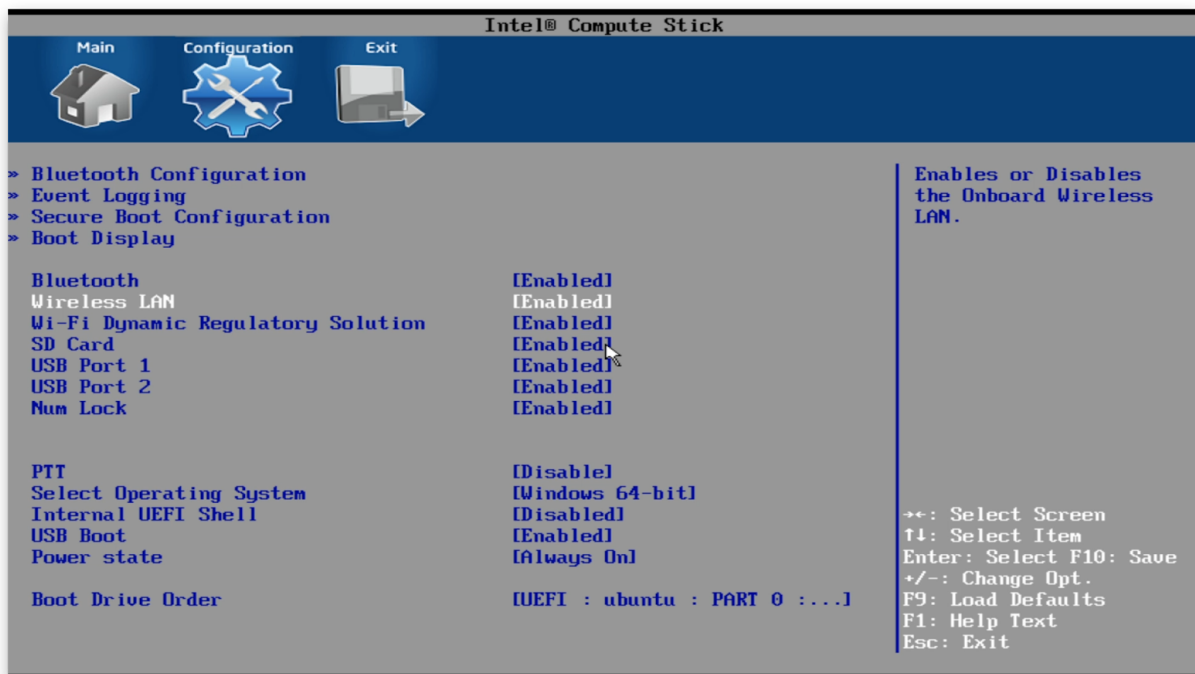


```
                              Intel® Compute Stick
    Main      Configuration      Exit


 » Bluetooth Configuration                               Enables or Disables
 » Event Logging                                         the Onboard Wireless
 » Secure Boot Configuration                             LAN.
 » Boot Display

   Bluetooth                        [Enabled]
   Wireless LAN                     [Enabled]
   Wi-Fi Dynamic Regulatory Solution [Enabled]
   SD Card                          [Enabled]
   USB Port 1                       [Enabled]
   USB Port 2                       [Enabled]
   Num Lock                         [Enabled]


   PTT                              [Disable]
   Select Operating System         [Windows 64-bit]
   Internal UEFI Shell              [Disabled]         →←: Select Screen
   USB Boot                         [Enabled]          ↑↓: Select Item
   Power state                      [Always On]        Enter: Select F10: Save
                                                       +/-: Change Opt.
   Boot Drive Order                 [UEFI : ubuntu : PART 0 :...]  F9: Load Defaults
                                                       F1: Help Text
                                                       Esc: Exit
```
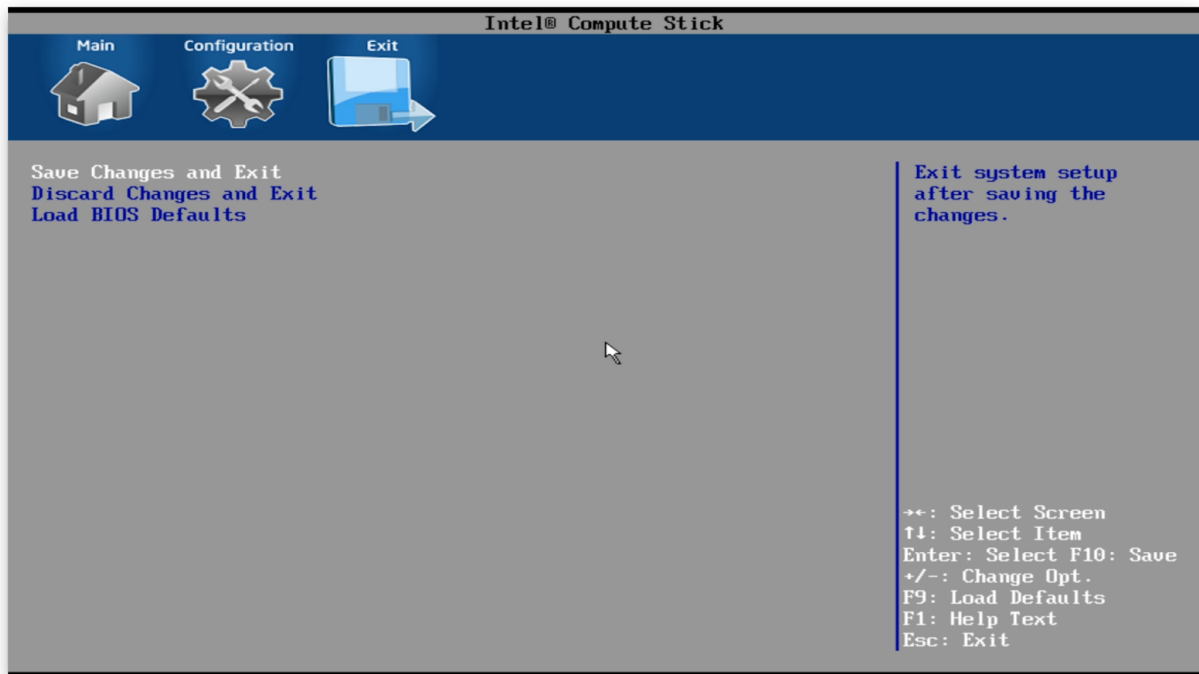
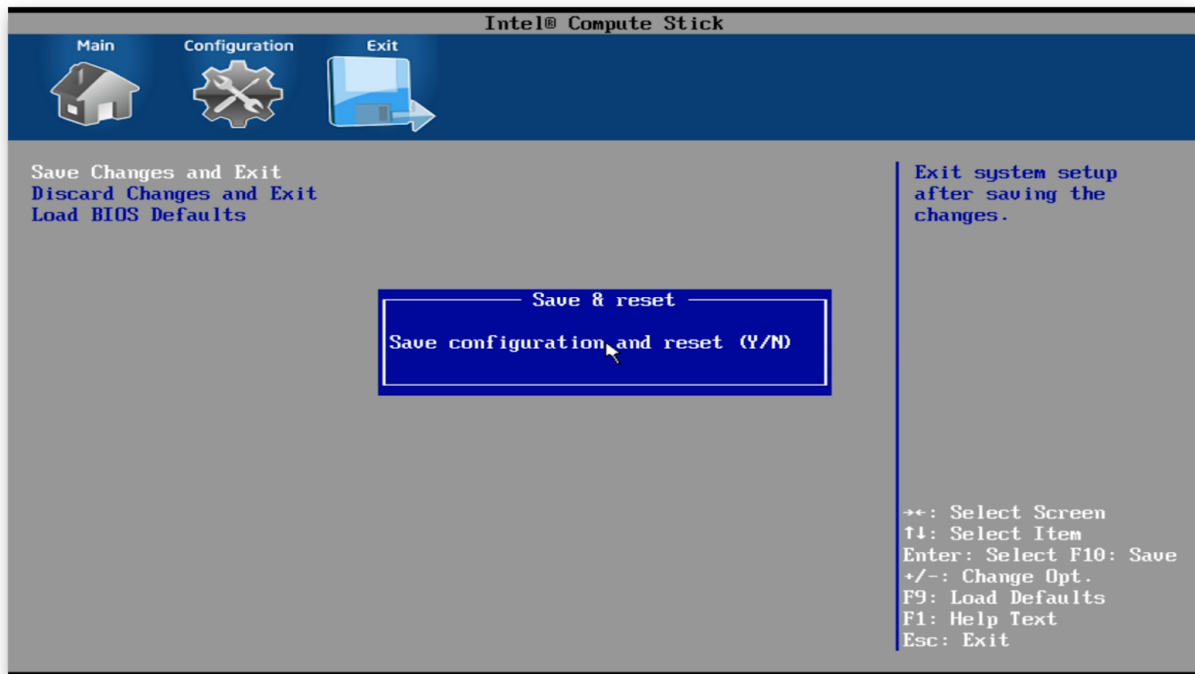From the **Wireless LAN** dialog, press ⬆ to reach **Disabled** and press **Enter**.
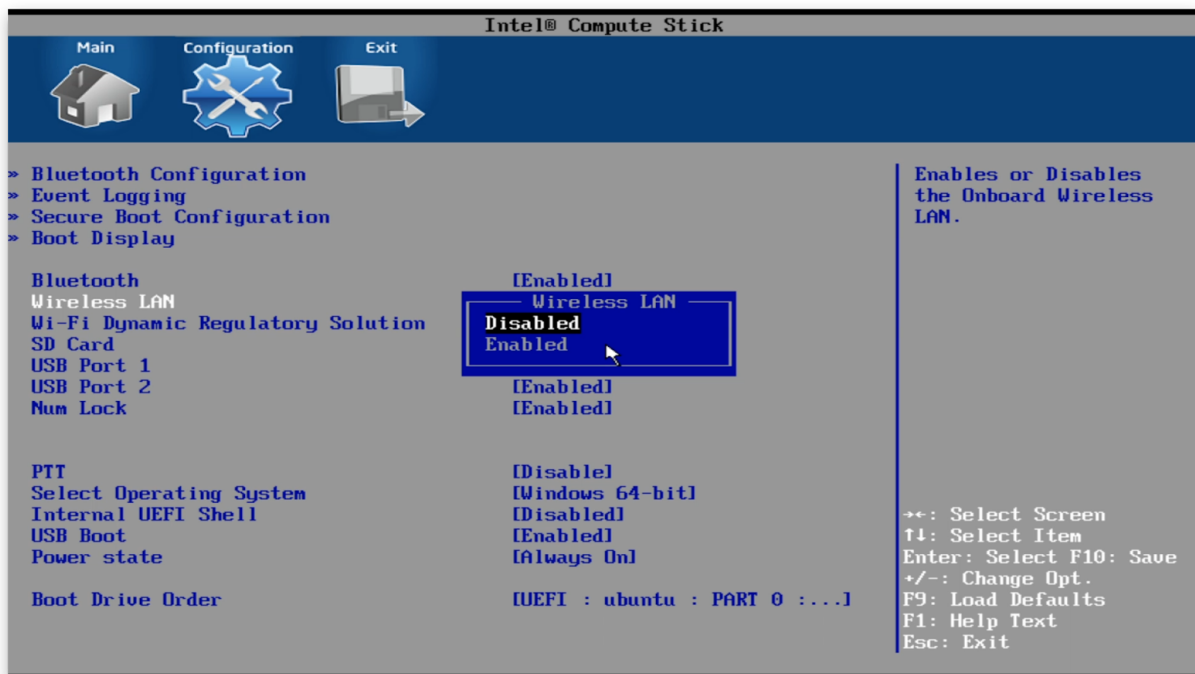
From the BIOS **Configuration** screen, press ➜ to page right to the BIOS **Exit** screen.
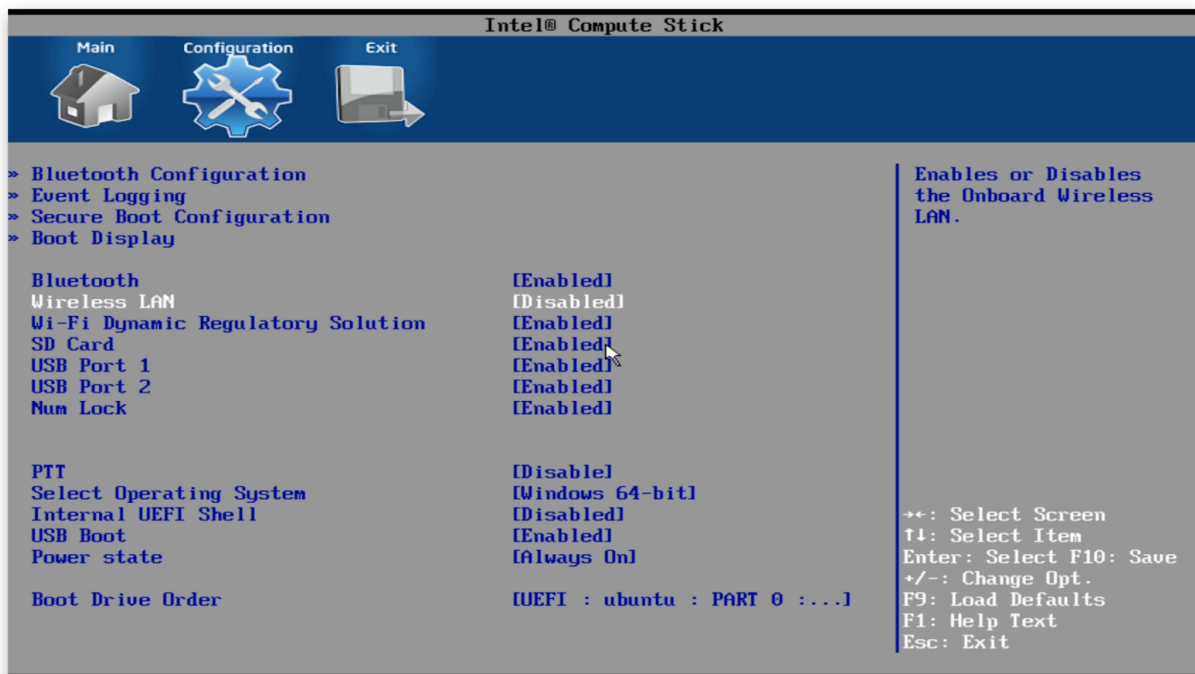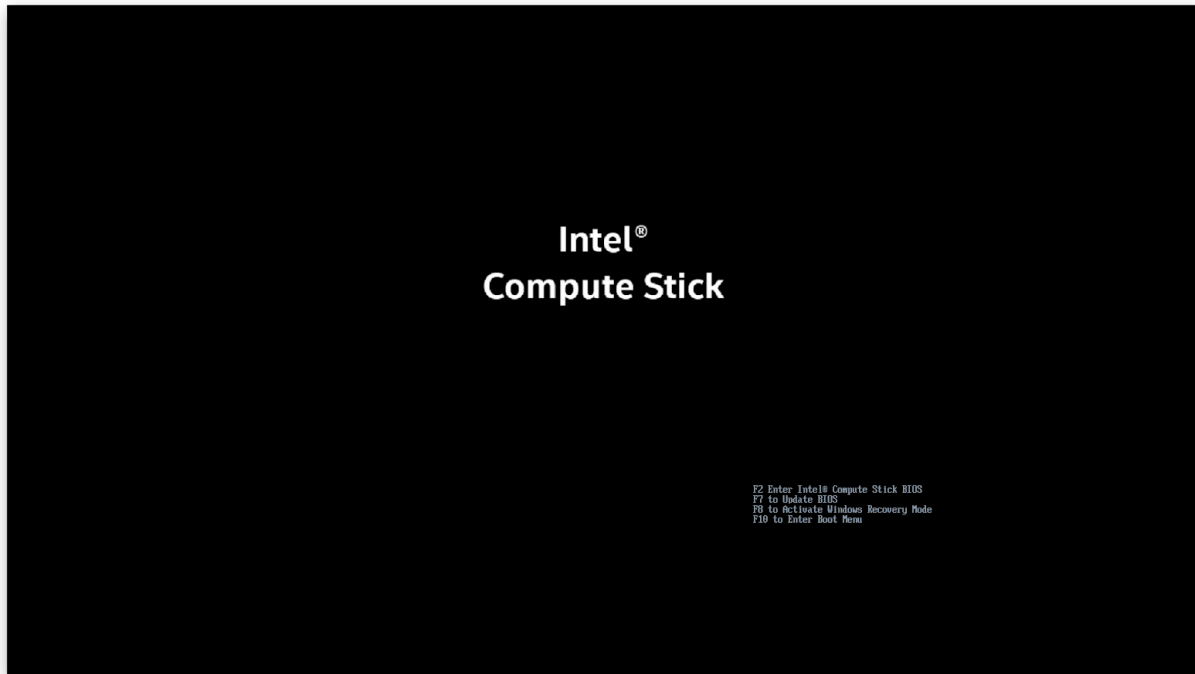
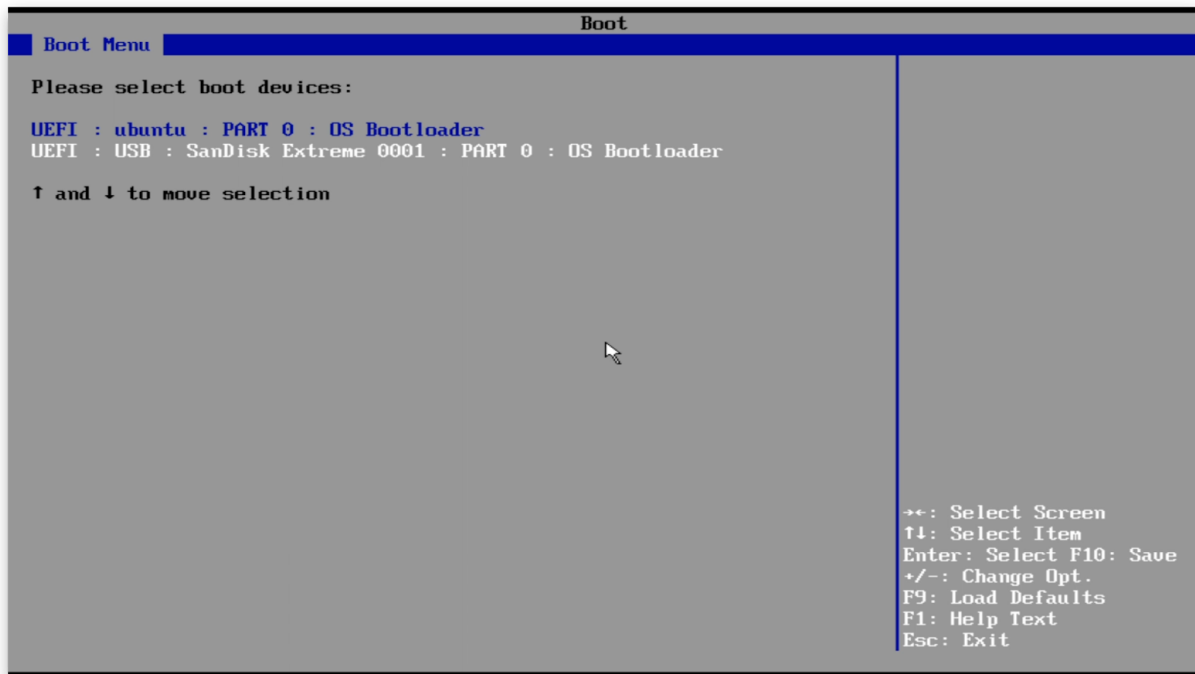From the BIOS **Exit** screen, press **Enter** to **Save Changes and Exit**.

From the **Save & Reset** dialog press **Y** to save the configuration and reset.

When the STK1AW32SC reboots, press **F10** to **Enter Boot Menu**.

From the **Boot Menu** screen, press ↓ to reach **UEFI : USB : ...** and press **Enter**.

```
                                    Boot
  Boot Menu
  Please select boot devices:

  UEFI : ubuntu : PART 0 : OS Bootloader
  UEFI : USB : SanDisk Extreme 0001 : PART 0 : OS Bootloader

  ↑ and ↓ to move selection




                                                  →←: Select Screen
                                                  ↑↓: Select Item
                                                  Enter: Select F10: Save
                                                  +/-: Change Opt.
                                                  F9: Load Defaults
                                                  F1: Help Text
                                                  Esc: Exit
```

The STK1AW32SC will reboot into a menu and choose **Automatically Install Band OS** after 10 seconds.
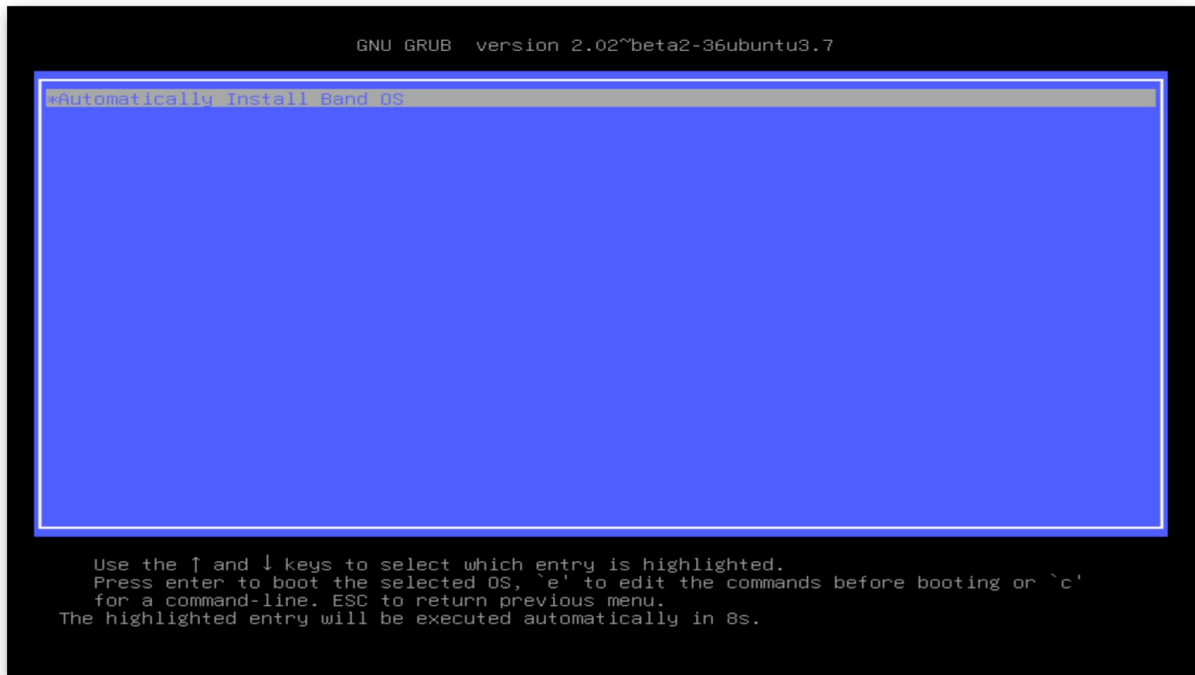
Band OS will install automatically. User input is not required. The installation process takes about five minutes.
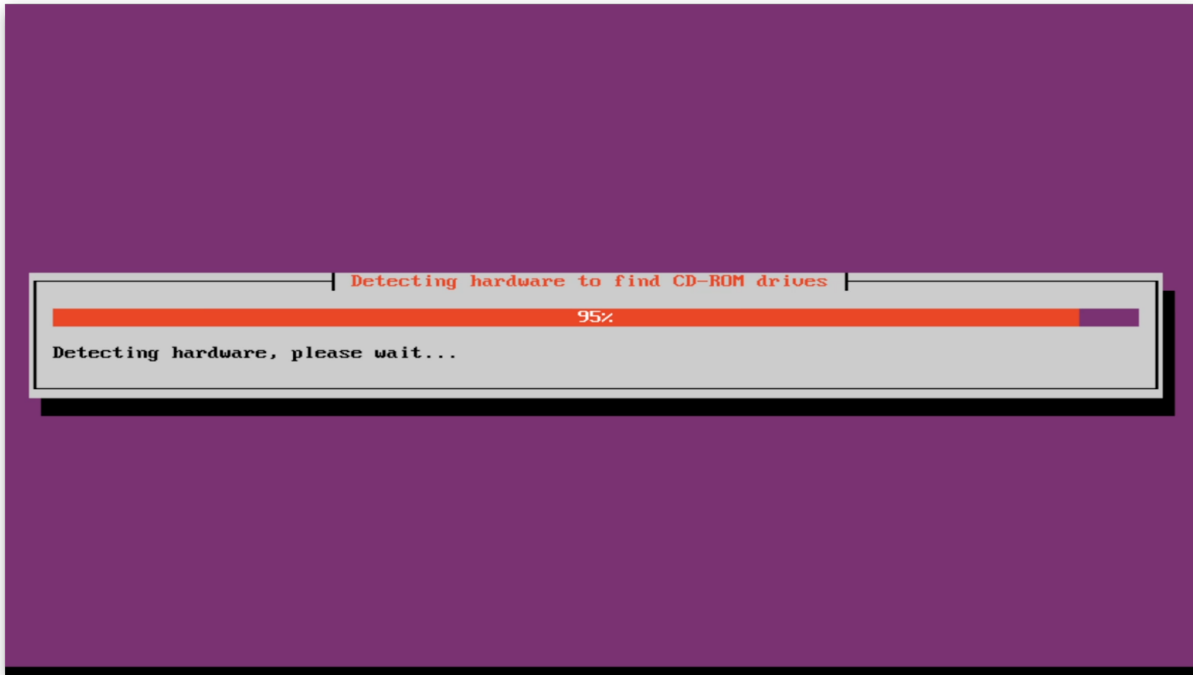
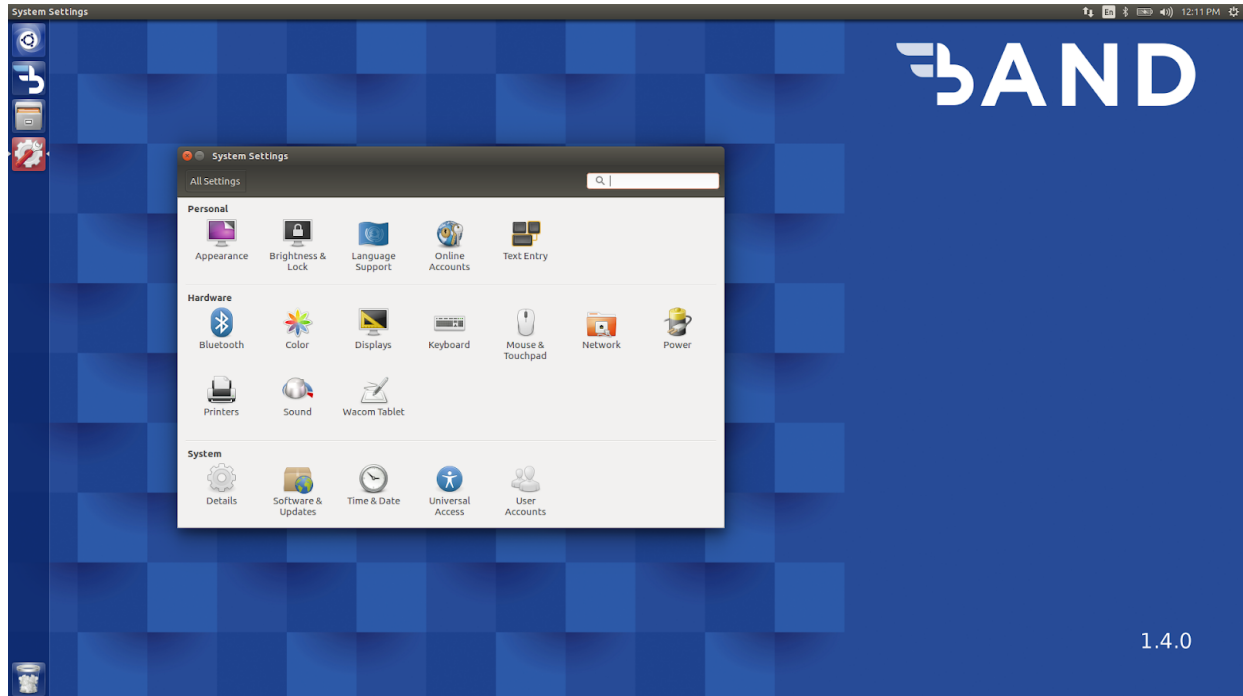When the install is complete, press the power button for five seconds to power down the device. **Remove the USB drive** and **plug in the USB network adapter**. Press the power button briefly to turn on the device.
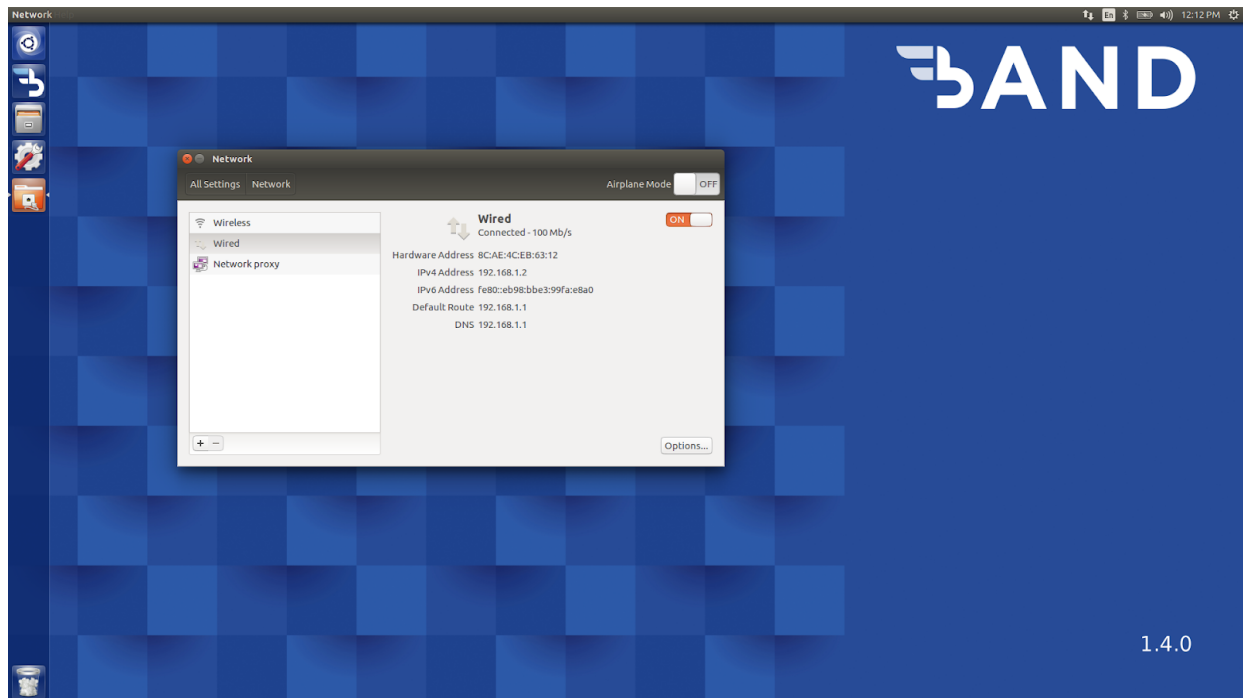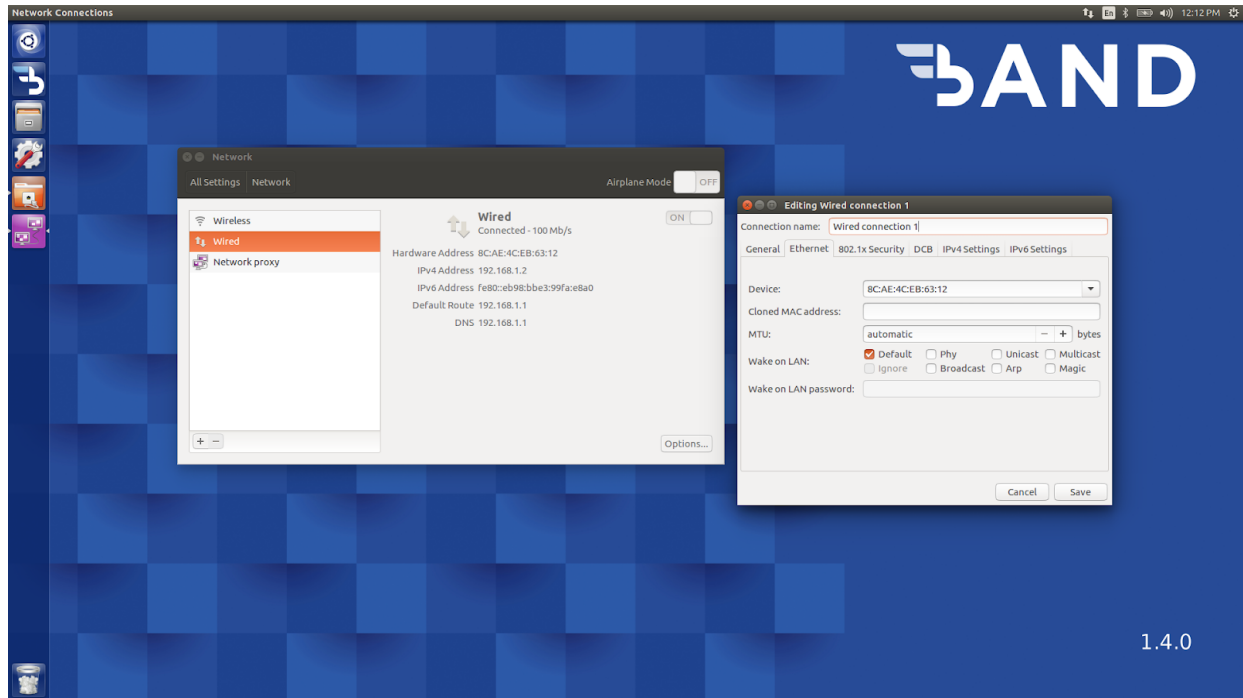
Static IP

For **System Settings** click on the icon at the top left corner of the screen, right above the band icon and search for system settings.
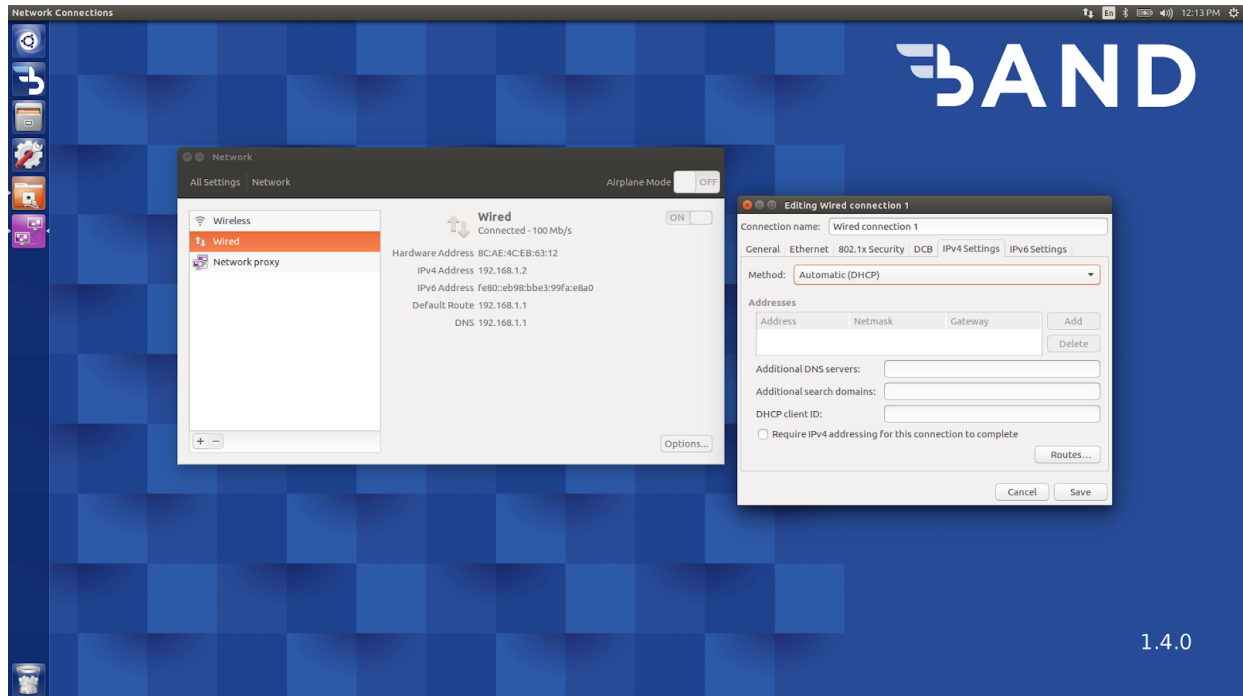
Click on the **Network** icon under **Hardware** and select **Wired** to access the ethernet configuration.

From **Wired** click on the **Options...** button to access the wired network configuration.

From **Edit Wired connection 1** dialog click on **IPv4 Settings** tab to access the IPv4 configuration.

Change the **Method** from **Automatic (DHCP) ➜ Manual** to enable static IP address configuration.
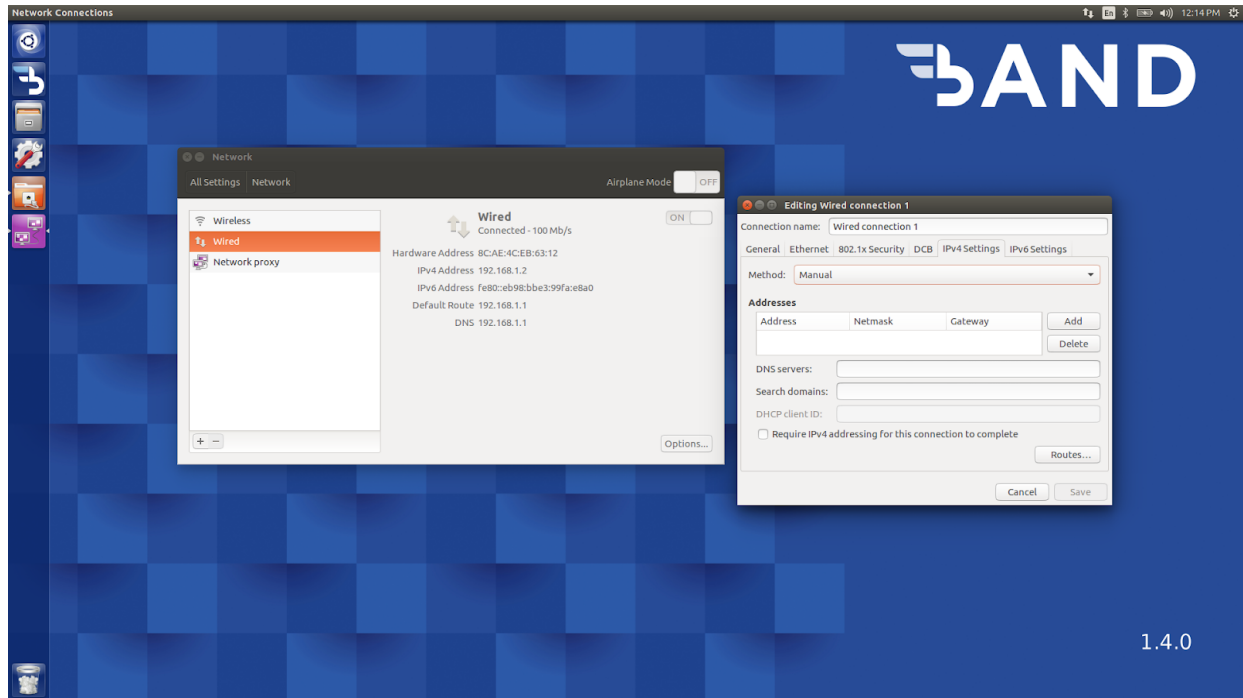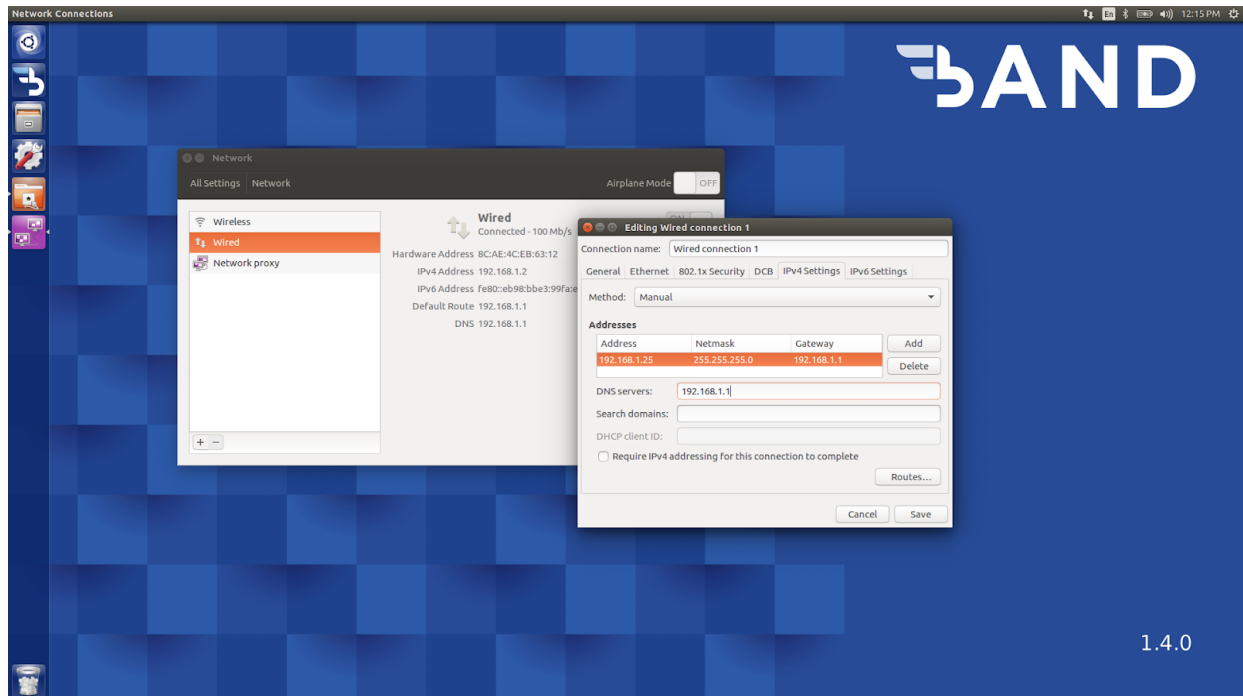
Click on the **Add** button under **Addresses** on IPv4 Settings tab and enter the following,
- Address
- Netmask
- Gateway

Enter the IP address of the DNS servers in the field next to label **DNS Servers.** If there are multiple DNS servers, enter them separated by a comma.
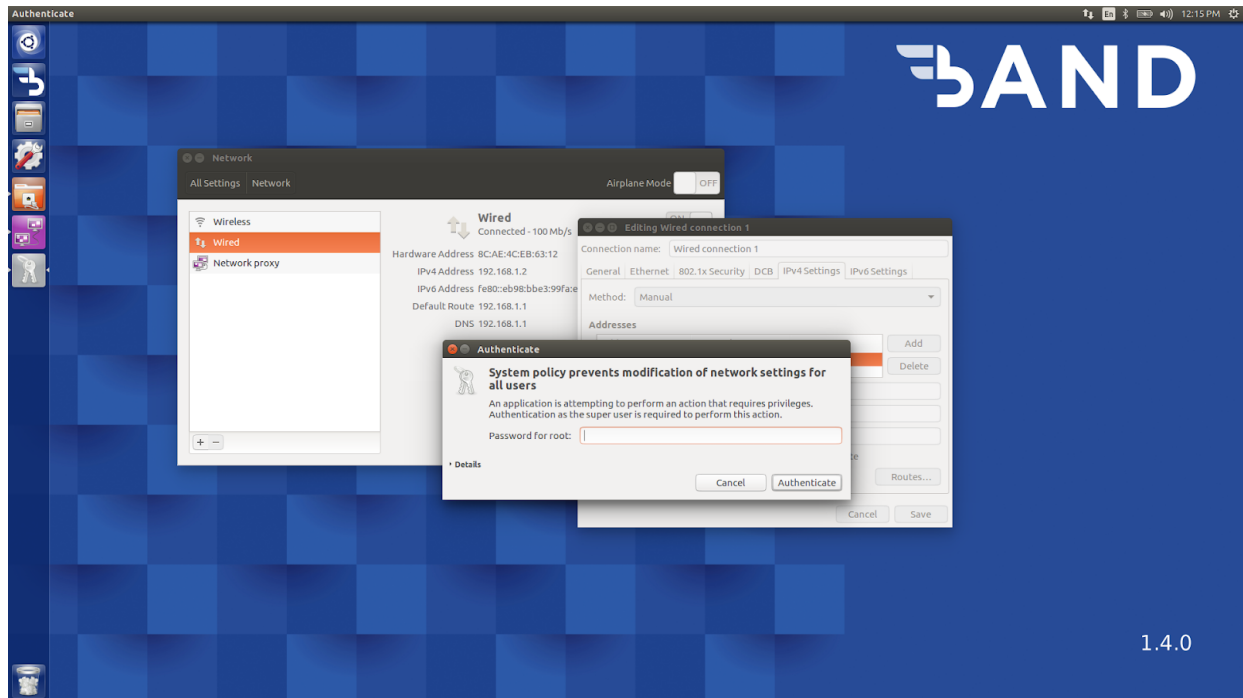
```
192.168.1.1,1.1.1.1,1.0.0.1
```

Click on the **Save** button to save the IPv4 configuration. Band will show an **Authentication** prompt requesting the password for **root** user.

Root credentials

Username : **root**

Password : **bandpassword**

Enter **bandpassword** in the field next to **Password for root** and click on **Authenticate** button.

Enable the previously configured static IP address by resetting the Wired adapter. **Toggle** the **on/off** switch on the Wired configuration tab.