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TENET TECHNETRONICS

Digital Signage with Raspberry Pi

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Introduction:

Raspberry Pi is a credit card sized computer that plugs into a computer monitor or TV,and uses standard keyboard and mouse.It's capable of doing everything you'd expect a desktop computer to do, from browsing the internet and playing high-definition video, to making spreadsheets, word-processing, and playing games.Here we are going tomake raspberry Pi as an advertising system.

Hardware Requirements:

1. Raspberry Pi board.

2.Monitor

3. Keyboard and Mouse

Software Requirements:

1. Screenly OS

Digital Signage:

Digital signage, also called dynamic signage, is a specialized form of sliver casting in which video or multimedia content is displayed in public places for informational or advertising purposes. A digital sign usually consists of a computer or playback device connected to a large, bright digital screen such as an LCD or plasma display.

Digital signage is used in department stores, schools, libraries, office buildings, medical facilities, airports, train and bus stations, banks, auto dealerships and other public venues. If the display is connected to a computer, the data on the screen can be updated in real time by means of an Internet or proprietary network connection. Data transmission and storage are streamlined by compression to minimize file size. The system can employ multiple screens if an extra-large display is desired.

There are several advantages to the use of digital signs instead of paper signs. Digital signs can be updated at will by remote control while paper signs require individual replacement and physical travel to sign sites by personnel. Because digital signs require no paper or paint, they are more environmentally friendly than traditional signs. Digital signs can be animated and can deliver sound as well as visual content.

Procedure:

Step 1:

Download the screenly OS from the below URL.
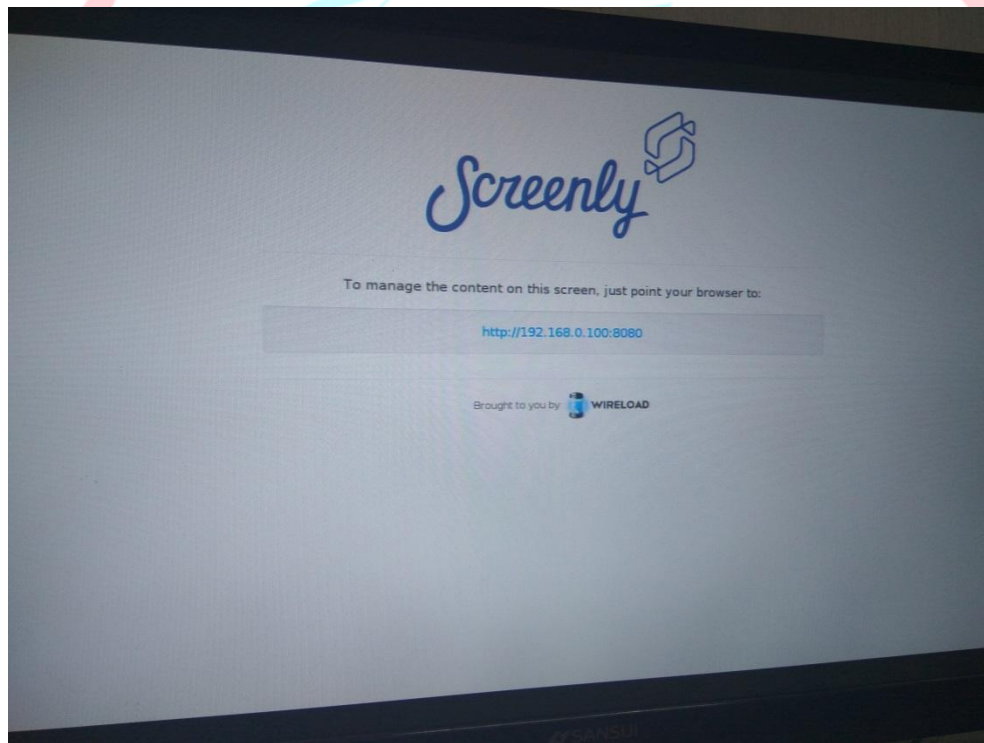
https://www.screenly.io/ose/

Step 2:

Burn the image to SD card using win32diskimager software.

Step 3:

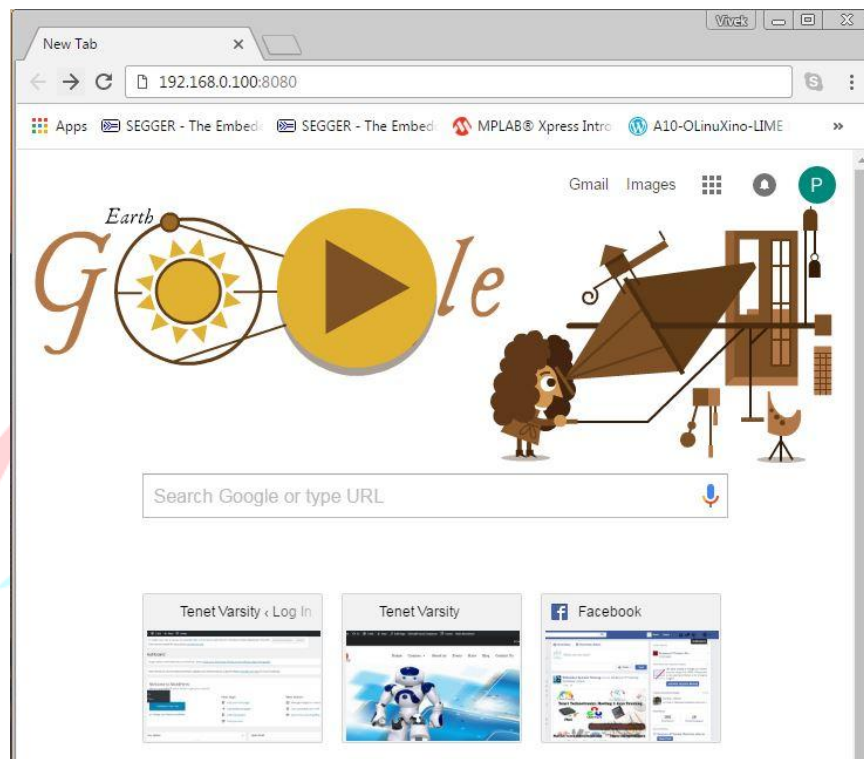Once OS burning is done, insert it to Raspberry Pi and power it up.

Now screenly OS starts to boot and will get screenly GUI as below.

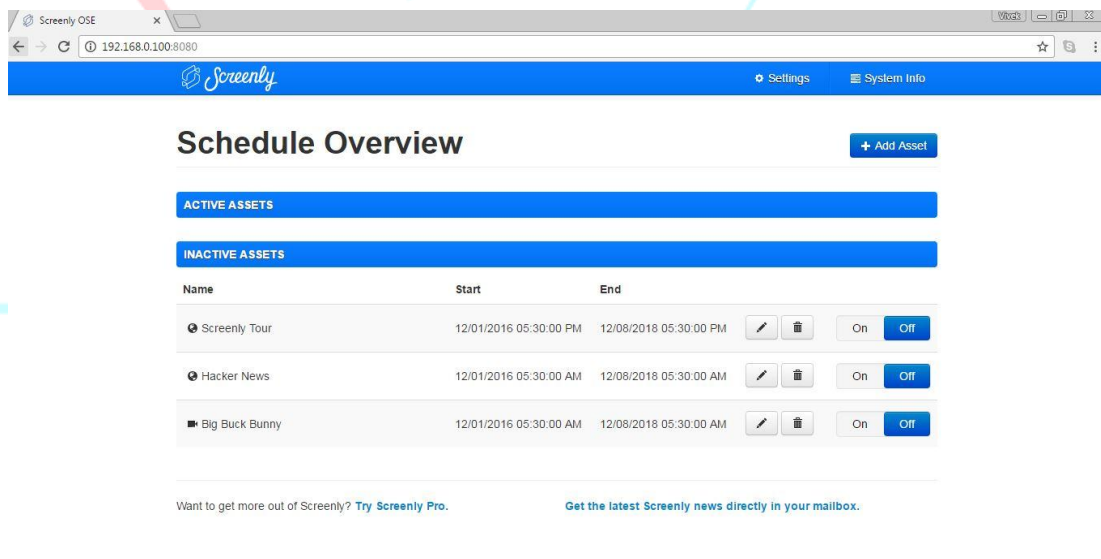Note down the IP address which is displaying on the screen.

Step 4:

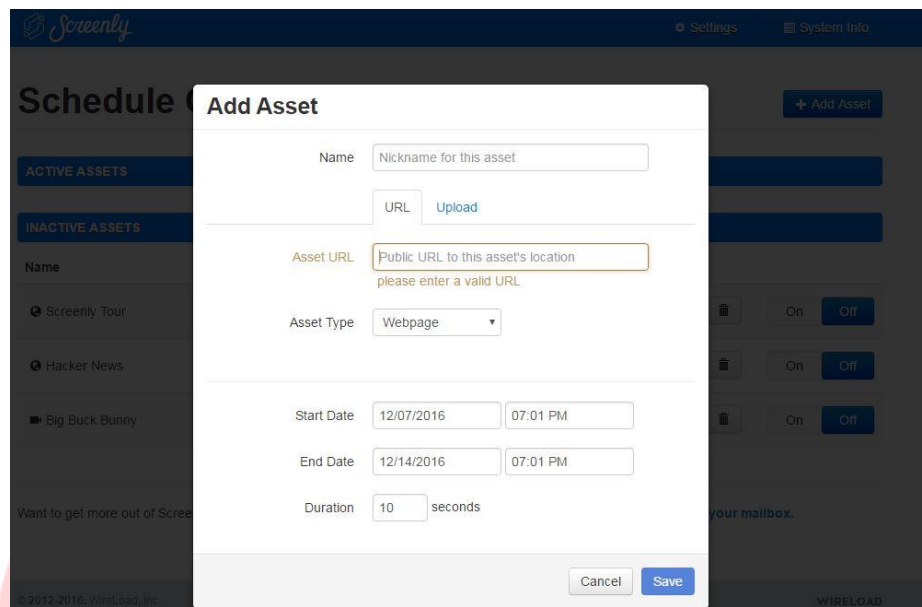Type the IP address which you have noted down in your browser.

Step 5:

Once you typed address in your browser, you will get window like below.
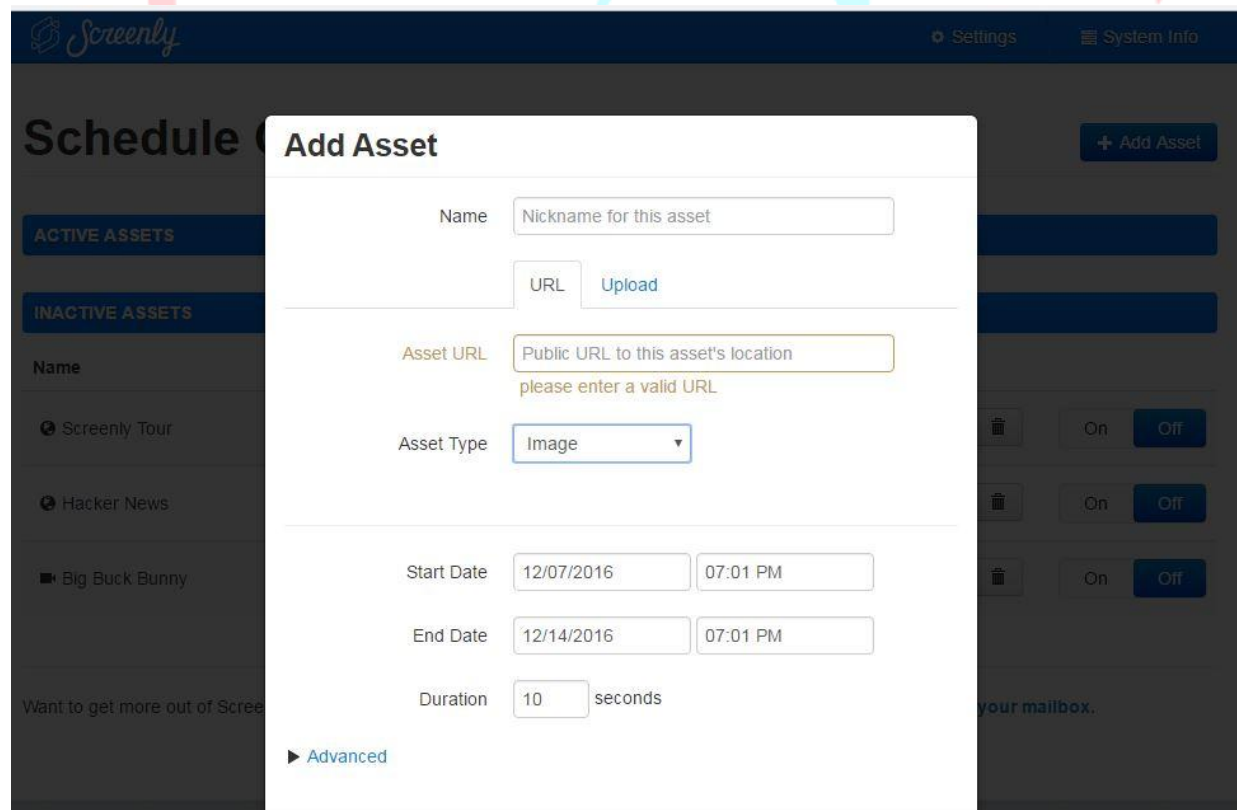
Step 6:

Now click the **"Add Asset"** button in order to upload your image.
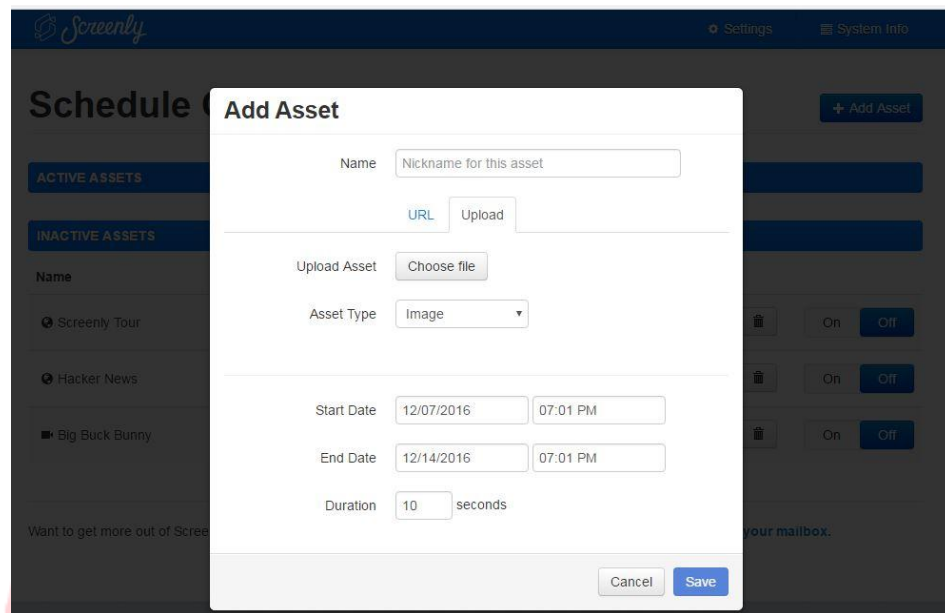
Step 7:

Change the **Asset Type** to image to upload image for advertising.

Step 8:
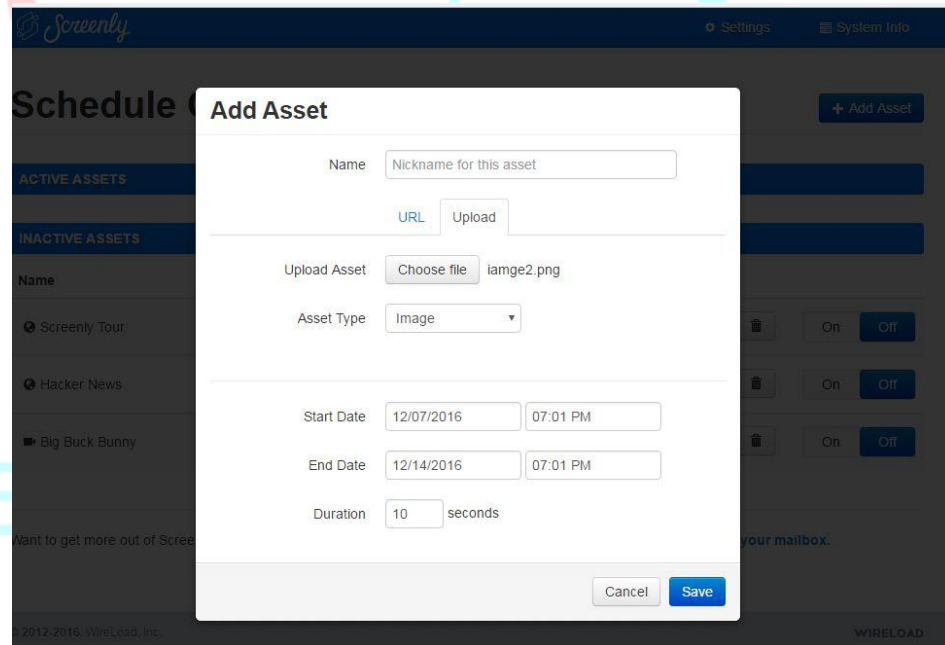
Click the upload option.

Step 9:
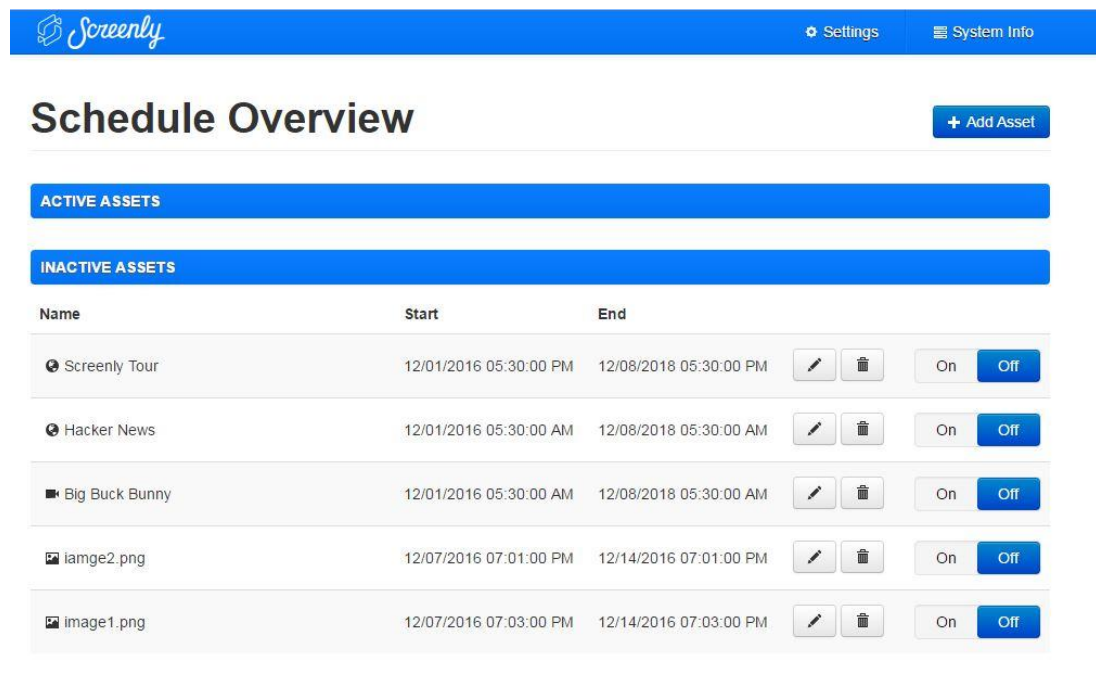
Click choose file and browse the image file.

Step 10:
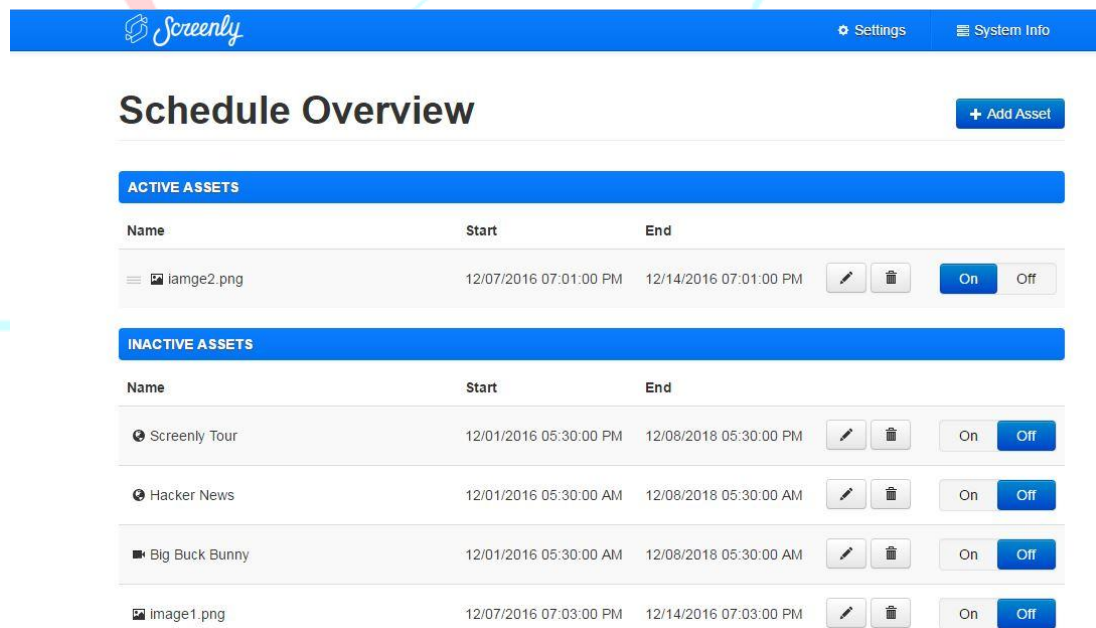
You added images will be displayed under the "INACTIVE ASSETS"

Step 11:

Click the On option to enable it active. Now that will be comes under"**ACTIVE ASSETS**".

Step 12:
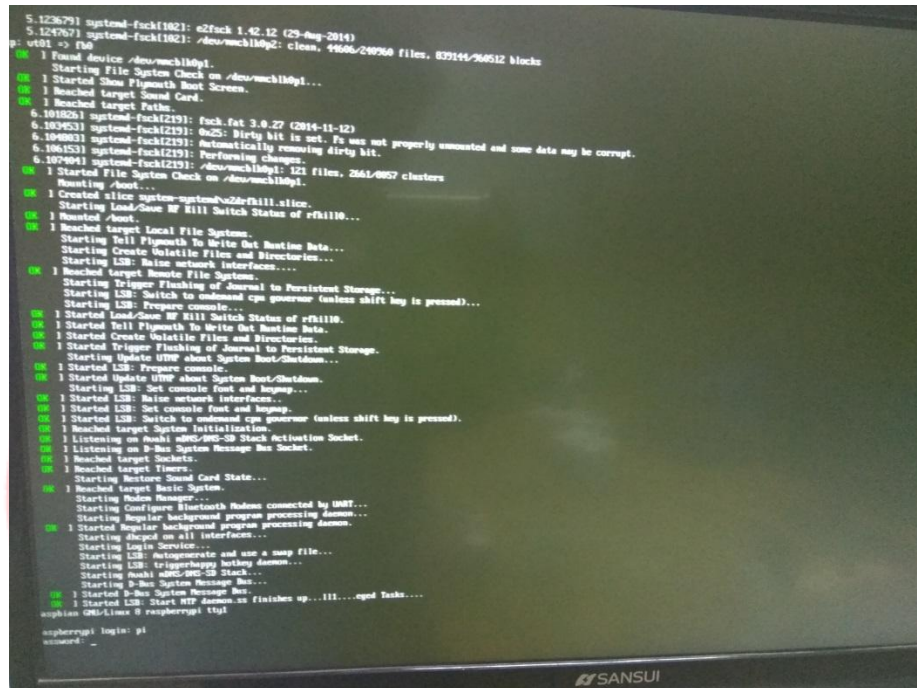
Once added your images that will be displayed on your monitor.
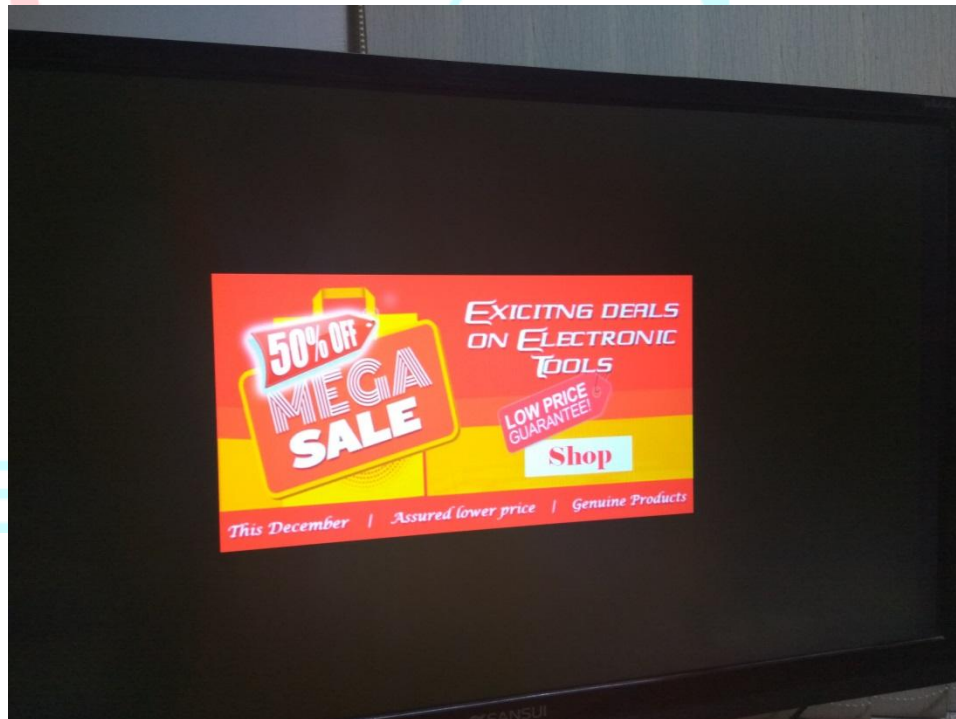
WiFi Connectivity in screenly:

Step 1:

Type (CTRL+ALT+F1) to get into command prompt.

Login:pi

Password:raspberry

Type **sudonano /etc/wpa-supplicant/wpa-supplicant.conf**command in the command prompt in order to add the wifi details.

Add the below lines at the end of the file.

network =   {

ssid="wifi name"

psk="wifi password"

key_mgmt=WPA-PSK

}

Now you can access screenly through Wifi network.

For more information please visit: www.tenettech.com

For technical query please send an e-mail: info@tenettech.com