R-Pi

Team Emertxe

Setup + Installation

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- 1. To configure and boot R-Pi

- 2. Connect using SSH and VNC

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Requirements

1. R-Pi3 (Model B)

2. SD Card (Minimum 16GB)

3. SD Card Adapter

4. USB Mouse

5. USB Keyboard

6. Monitor / TV / Projector (With VGA or HDMI Input)

7. HDMI to VGA Converter (For VGA Input Monitor)

8. Power Cable

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Step-1:

1. DOWNLOAD FOLLOWING SOFTWARES:

   a) OS for RPi3: Raspbian Stretch with desktop

   b) https://www.raspberrypi.org/downloads/raspbian/

   a) Etcher

   b) https://etcher.io/

   a) VNC Viewer: (For viewing RPi3 monitor screen on your laptop / Desktop)

   b) https://www.realvnc.com/en/connect/download/viewer/

   a) Angry IP Scanner

   b) https://angryip.org/download/

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Step-2:

1. BURN RASPBIAN in SD Card:

   a) Format the SD Card using FAT32 file system

   b) Burn <u>UNZIPPED</u> Raspbian OS into SD Card using the Etcher

   c) SD Card is ready to Boot

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Step-3:

1. BOOT RASPBIAN OS:

   a) Connect Mouse and Keyboard to USB port of RPi3

   b) Insert SD card to SD card slot in RPi3

   c) Connect Monitor / TV / Projector to RPi3 using HDMI port

   d) Connect Power cable (micro USB cable) to Rpi3

   e) Watch the OS booting... on the Monitor

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1. CHANGING SETTINGS in RPi3 OS:

   a) Enable SSH and VNC:

      i. Click on Raspberry Button > Preferences > Raspberry Pi Configuration

      ii. Select Interfaces Tab and Enable SSH and VNC

   a) Enable Internet:

      i. Click on Internet / WiFi Symbol on Task bar and Connect to Available WiFi

   a) Check IP address:

      i. Open Terminal and Type: *ifconfig*

Make Sure Laptop / Desktop and RPi3 are connected to same WiFi Network

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1. PING RPi3

    a) Open the terminal

    b) Type: *ping <ip_address>*

    c) Confirm the connection

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Step-6:

1. CONNECT USING SSH:

   a) Open terminal and run following command

      i. ssh pi@<ip_address>

   a)

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1. CONNECT USING VNC:

   a) Install and open VNC

   b) Enter <ip_address> and hit "Enter"

      i. login id: *pi*

      ii. password: *raspberry*

   c)

   a)

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1. TO CHECK IP ADDRESS assigned to RPi3

    a) Install and Open AngryIP Scanner

    b) Note: Install Java SDK

    a) Put IP Range: to and Click on "Start"

    b) - Here you will se the list and check Which IP address is assigned to your Rpi3

    c) - Use this IP to connect to RPi3 usig SSH and VNC

    a)

Make Sure Laptop / Desktop and RPi3 are connected to same WiFi Network

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THANK YOU