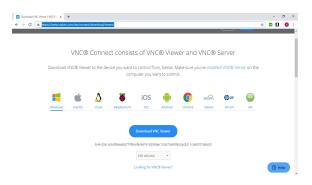
Persiapan untuk bekerja dengan Raspberry pi menggunakan Remote Desktop dan atau SSH

1. Installasi VNC Viewer:

Download VNC Viewer dari link berikut:

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



jalankan VNCViewer dari Laptop (PC):



Mengidentifikasi IP Address Raspberry pi:

Setup Raspberry pi dengan menggunakan Monitor, Keyboard & Mouse lokal:

(user | ssword default : pi | raspberry)

Buka Terminal Rassberry pi, jalankan perintah "ifconfig eth0"

cari ip address pada eth0, contoh 10.8.8.27

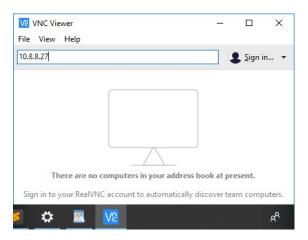
Mengaktifkan VNC-Server pada raspberry:

Klik gambar raspberry (Pojok Kiri atas) > Preferensi > Konfigurasi Raspberry pi

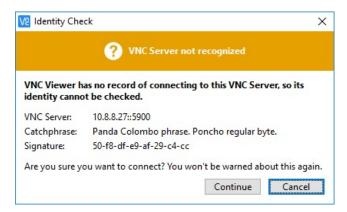
Klik tab "Antarmuka" (interface): Cari label VNC kemudian klik opsi Aktif (default Non Aktif), lakukan hal yang sama untuk Label SSH & Reote GPIO, setelah itu klik OK. Pastikan pada layar kanan atas tampil icon VNC-server, yang menunjukkan bahwa raspberry sudah siap untuk menerima koneksi dengan VNC Client.

Menghubungkan VNC-Client (Laptop) dengan VNC Server (raspberry-pi)

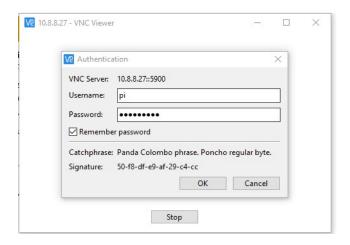
Tuliskan IP Address raspberry-pi pada kolom yang tersedia di VNC-viewer, kemudian tekan tombol ENTER pada keyboard:



Jika muncul tampilan seperti berikut:



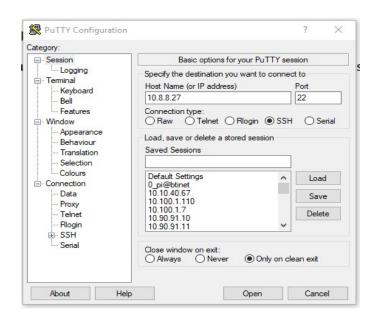
klik button "Continue", selanjutnya masukan user & password raspberry (lihat di atas) dan klik OK.



2. Setup SSH Client menggunakan Putyy

Download software Putty dari link berikut: https://www.putty.org/

jalankan program putty, seperti pada gambar di bawah, kemudian masukan IP Address dan tekan button OPEN;



tekan tombol "YES" jika muncul popup, selanjutnya masukan user "pi" dan password "raspberry" seperti pada gambar di bawah:

```
login as: pi
pi@10.8.8.27's password: []
```

Jalankan perintah "pinout" untuk menampilkan IO mapping raspberry

```
pi@raspberrypi: ~
                                                                               X
                                                                         login as: pi
pi@10.8.8.27's password:
Linux raspberrypi 4.14.79-v7+ #1159 SMP Sun Nov 4 17:50:20 GMT 2018 armv71
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu May 9 13:47:43 2019 from 10.8.8.19
SSH is enabled and the default password for the 'pi' user has not been changed.
This is a security risk - please login as the 'pi' user and type 'passwd' to set
a new password.
pi@raspberrypi:~ 🖇 🗌
```

```
pi@raspberrypi: ~
RAM
                  : 1024Mb
Storage
                  : MicroSD
USB ports
                  : 4 (excluding power)
Ethernet ports
Wi-fi
                  : True
                  : True
Bluetooth
Camera ports (CSI) : 1
Display ports (DSI): 1
J8:
  3V3 (1) (2)
                5V
GPIO2 (3) (4)
                5V
GPIO3 (5) (6)
       (7) (8) GPIO14
 GPI04
 GND (9) (10) GPIO15
GPI017 (11) (12) GPI018
GPI027 (13) (14) GND
GPI022 (15) (16) GPI023
  3V3 (17) (18) GPIO24
GPI010 (19) (20) GND
GPI09 (21) (22) GPI025
GPI011 (23) (24) GPI08
 GND (25) (26) GPIO7
GPI00 (27) (28) GPI01
GPIO5 (29) (30) GND
GPIO6 (31) (32) GPIO12
GPI013 (33) (34) GND
GPI019 (35) (36) GPI016
GPI026 (37) (38) GPI020
 GND (39) (40) GPIO21
For further information, please refer to https://pinout.xyz/
pi@raspberrypi:~ $
```