VNC (VIRTUAL NETWORK COMPUTING) :

INTRODUCTION :

1. VNC is the remote desktop application that is used to remotely access any device and presents the GUI as if getting used in realtime physically in a secured manner using internet.
2. It uses RFB (Remote Frame Buffer) protocol for graphical remote access. It is TCP based protocol that runs by default in 590x (x – display number) port to provide real time screen updates from server side and real time input events from client side.
3. It is basically client-server architecture where RFB client (via VNC viewer software) requests RFB Server (VNC server) for remote access. If credentials matched (modern vnc software uses encryption mechanisms too).
4. Can be secured using SSH since internet based remote access is possible in vnc software. In that case, port forwarding in router is essential (port forwarding is the mechanism by which router selectively allows the external connections to target device in its interface which it generally blocks for security reasons. Because, routers by default allows connection that are originated from its LAN to external server.)
5. Generally, all remote desktop access application uses compression protocols so that server side application could compress the real time screen view for efficient transmission.

PROCEDURE :

1. Install VNC server from real vnc site (for eg.) and provide VNC password (preferably so that it will be used when remote connections are requested) and install vnc viewer (client) software and type the vnc server IP (under connectivity option, ensure vnc is enabled and type the IP address the server machine is currently holding for vnc application) and get connected.
2. In vnc client, if server credentials are entered (in which client software is also running), we could see the possible vnc connections there. One such is the same device which we can also access via VNC which gives looped windows.





