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VNC tunneling over SSH

posted in PENETRATION TESTING on OCTOBER 2, 2017 by RAJ CHANDEL SHARE

In previous article we had perform **VNC** penetration testing and today you will VNC tunneling to connect remote machine with VNC server when they both belongs different network interface.

Basically tunneling is process which allows data sharing or communication between two different networks privately. Tunneling is normally perform through encapsulating the private network data and protocol information inside the public network broadcast units so that the private network protocol information visible to the public network as data.

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Requiremet:

Server machine(ubuntu): Two network interface with activted SSH service

Local machine (ubuntu): activated VNC service

Remote machine(window): with install tight VNC viewer

In following image we are trying to explain VNC tunneling process where a remote PC of IP 192.168.1.225 is trying to connect to 10.0.0.20 which is on INTRANET of another network. To establish connection with **local machine**, remote PC will create VNC tunnel which will connect with the **local** system via **SSH server machine**.









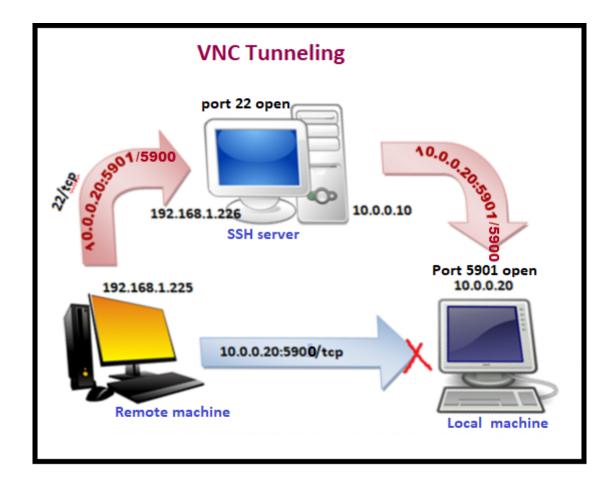












Given image below is describing the network configuration for **server machine (SSH)** where it is showing two IP 192.168.1.226 and another 10.0.0.10 as explain above.

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```
ubuntu@ubuntu:~$ ifconfig 👝
          Link encap: Ethernet HWaddr 00:0c:29:bf:43:8a
eth0
          inet addr 192.168.1.226 Bcast:192.168.1.255 Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:febf:438a/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:276 errors:0 dropped:0 overruns:0 frame:0
          TX packets:167 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:42282 (42.2 KB) TX bytes:18457 (18.4 KB)
          Link encap: Ethernet HWaddr 00:0c:29:bf:43:94
eth1
          inet addr: 10.0.0.10 Bcast: 10.255.255.255 Mask: 255.0.0.0
          inet6 addr: fe80::20c:29ff:febf:4394/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:170 errors:0 dropped:0 overruns:0 frame:0
          TX packets:123 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:28893 (28.8 KB) TX bytes:18291 (18.2 KB)
```

Another image given below is describing network configuration for **local machine** which is showing IP 10.0.0.20

Checking activated VNC service using following command:

netstat -tlp

Hence from given image you can see the highlighted text is showing 5900 is enabled in local machine.

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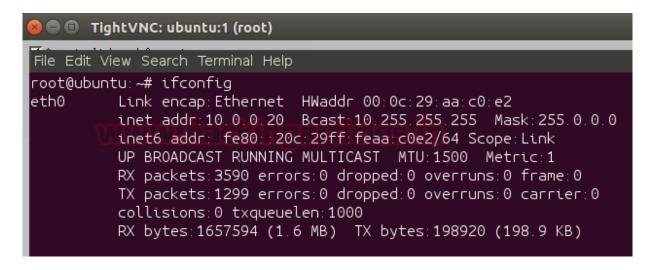
```
ignite@ubuntu:~$ netstat -tlp 🖕
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-O Send-O Local Address
                                             Foreign Address
                                                                      State
                  0 localhost:ipp
tcp
           0
                                             *:*
                                                                      LISTEN
tcp
           0
                  0 *:mysql
                                             * * *
                                                                      LISTEN
tcp
                  0 *:x11-1
                                             * * *
                                                                      LISTEN
           0
tcp
                  0 ubuntu:domain
                                             * * *
                                                                      LISTEN
tcp
           0
                  0 *:ssh
                                             *:*
                                                                      LISTEN
tcp6
           0
                  0 ip6-localhost:ipp
                                             [::]:*
                                                                      LISTEN
                  0 [::]:5900
                                             [::]:*
tcp6
                                                                      LISTEN
           0
                                                                      LISTEN
tcp6
                  0 [::]:http
                                             [::]:*
           0
tcp6
                  0 [::]:ssh
                                             [::]:*
                                                                      LISTEN
           0
```

Open the terminal and type using following command to connecting to VNC machine (IP: 10.0.0.20) through server machine (IP: 10.0.0.10).

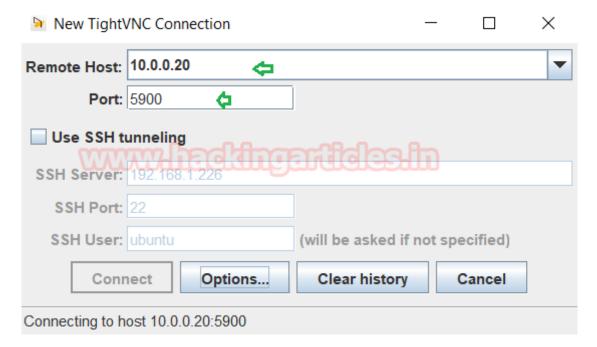
vncviewer 10.0.0.20

```
ubuntu@ubuntu:~$ vncviewer 10.0.0.20 
Connected to RFB server, using protocol version 3.8 
Performing standard VNC authentication 
Password: 
Authentication successful 
Desktop name "ubuntu:1 (root)" 
VNC server default format:
```

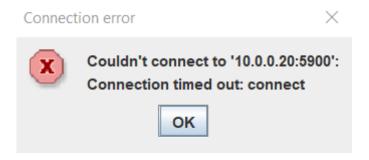
Great!! Local machine successfully connected



Similarly Using tight vnc viewer remote machine (192.168.1.225) now trying to connect local machine (IP: 10.0.0.10) as shown in given image

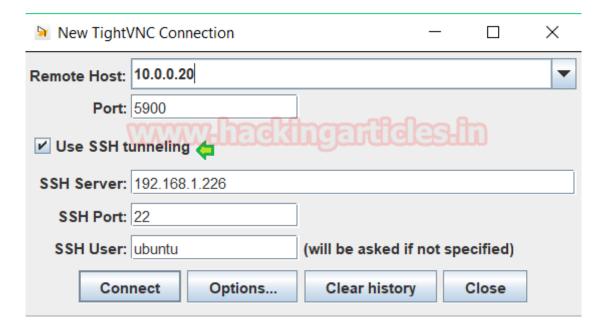


Since they belong to different network therefore he receives network error.

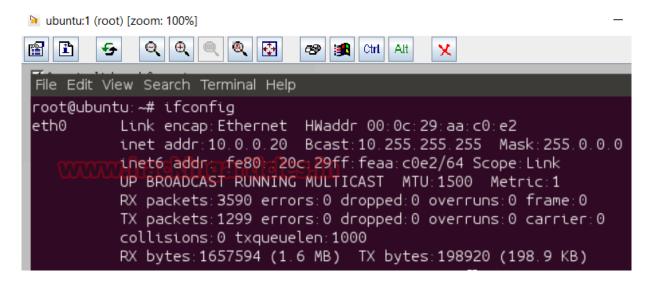


Follow given below step to connect remote machine to local machine via ssh server.

- Open tightVNC connection and enter the local machine IP: 0.0.20 with port 5900.
- Enable SSH tunneling
- Now enter ssh server IP: 168.1.226 with port 22 and ssh server username: ubutnu.



Congrats!!! Remote machine had successfully connected with local machine through VNC.



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RAJ CHANDEL

Raj Chandel is a Skilled and Passionate IT Professional especially in IT-Hacking Industry. At present other than his name he can also be called as An Ethical Hacker, A Cyber Security Expert, A Penetration Tester. With years of quality Experience in IT and software industry

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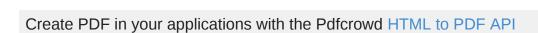
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