## PXE

**PXE** Preboot execution environment , OS 가 PXE Virtualbox , Host-only Adapter . Virtualbox - File - Host Network Manager IPv4 Address: 10.0.0.254/24 DHCP Server: None CentOS 07 VM PXE: NIC 2EA ( / ) CentOS 07 VM Client: NIC 1EA ( ) PXE # Public cat << EOF | sudo tee /etc/sysconfig/network-scripts/ifcfg-</pre> enp0s3 **TYPE=Ethernet** B00TPR0T0=dhcp **DEFROUTE=yes** NAME=enp0s3 DEVICE=enp0s3 ONB00T=yes EOF # Private cat << EOF | sudo tee /etc/sysconfig/network-scripts/ifcfg-</pre> enp0s8 **TYPE=Ethernet** B00TPR0T0=none

DEFROUTE=no NAME=enp0s8 DEVICE=enp0s8 ONB00T=yes IPADDR=10.0.0.11 PREFIX=24 EOF sudo systemctl restart network sudo systemctl status network PXE DHCP sudo yum install -y dhcp sudo mkdir /etc/dhcp/dhcpd.d/ cat << EOF | sudo tee /etc/dhcp/dhcpd.conf</pre> 10.0.0.11;option domain-name-servers ## 10.0.0.11 -> PXE IΡ default-lease-time 600; max-lease-time 7200; authoritative; ## DHCPNAK send enable "pxelinux.0"; filename next-server 10.0.0.11;## tftp IΡ subnet 10.0.0.0 netmask 255.255.255.0 { range dynamic-bootp 10.0.0.200 10.0.0.253; option broadcast-address 10.0.0.255; # option routers 10.0.0.11; ## Client 가 Gateway IP ## }

```
EOF
sudo systemctl enable -- now dhcpd
sudo systemctl status dhcpd
PXF
        TFTP
                                 tftp
sudo yum install -y syslinux tftp tftp-server
sudo cp /usr/share/syslinux/pxelinux.0 /var/lib/tftpboot/
sudo systemctl enable --now tftp
sudo systemctl status tftp
tftp
(to) 10.0.0.11
tftp> verbose
tftp> trace
tftp> get pxelinux.0
PXF
        IS0
wget
http://mirror.navercorp.com/centos/7/isos/x86 64/Cent0S-7-x86
64-Minimal-2009.iso
sudo mkdir /var/lib/tftpboot/centos7
sudo mount CentOS-7-x86 64-Minimal-2009.iso /mnt
    sudo mount -t iso9660 -o loop CentOS-7-x86_64-
##
Minimal-2009.iso /mnt
sudo cp /mnt/images/pxeboot/vmlinuz /var/lib/tftpboot/centos7/
                         /mnt/images/pxeboot/initrd.img
sudo
              ср
/var/lib/tftpboot/centos7/
sudo cp /usr/share/syslinux/menu.c32 /var/lib/tftpboot/
sudo mkdir /var/lib/tftpboot/pxelinux.cfg/
cat << EOF | sudo tee /var/lib/tftpboot/pxelinux.cfg/default</pre>
```

```
timeout 100
default menu.c32
label 1
  menu label ^1) Install CentOS 7
  kernel centos7/vmlinuz
                        initrd=centos7/initrd.img
                 append
method=http://10.0.0.11/iso devfs=nomount
label 2
  menu label ^2) Boot from local drive
  localboot
EOF
sudo yum install -y httpd
cat << EOF | sudo tee /etc/httpd/conf.d/pxeboot.conf</pre>
Alias /iso /mnt
<Directory /mnt>
   Require ip 127.0.0.1 10.0.0.0/24
</Directory>
E0F
sudo systemctl enable -- now httpd
sudo systemctl disable --now firewalld
PXF
       IS0
Virtualbox - VM - Settings
           dhcpd
     NIC
                              NIC
(
      NTC
                                     .)
VM Start -
               F12 - Boot Manager - l) LAN (
                                           L
                                                     )
Cent0S
PXE
PXE
            PC
                                CentOS
                                           가
             initrd(=
                                      CentOS
                         )
```

# CentOS7WindowsRDP

### CentOS 7 Windows RDP

# OS
CentOS 7.9 x86\_64 minimal
 --> XRDP GUI --> GUI Windows
RDP

#### Linux GUI

# GUI GroupInstall root@localhost ~]# yum groups list | grep -i desktop Cinnamon Desktop MATE Desktop **GNOME** Desktop General Purpose Desktop LXQt Desktop **#** GNOME "Server with GUI" root@localhost ~] yum groupinstall "GNOME Desktop" # GUI init [root@localhost ~]# systemctl get-default multi-user.target [root@localhost ~]# systemctl set-default graphical.target [root@localhost ~]# systemctl get-default graphical.target

# Reboot GUI
[root@localhost ~]# reboot

#### Linux

# XRDP Install.
[root@localhost ~]# yum install epel-release
[root@localhost ~]# yum install xrdp
[root@localhost ~]# systemctl enable xrdp && systemctl start
xrdp

# selinux disable iptables -F or tcp/3389 가

#### rdesktop

# openssl-devel
yum -y install gcc openssl-devel

https://github.com/rdesktop/rdesktop/releases/download/v1.8.6/ rdesktop-1.8.6.tar.gz tar xvzf rdesktop-1.8.6.tar.gz cd rdesktop-1.8.6/ ./configure --disable-credssp --disable-smartcard make make install

wget

## Check

# RDP , rdesktop -u [User] [ip] .
root@localhost ~]# rdesktop -u administrator 10.10.10.5
Autoselected keyboard map en-us
Connection established using SSL.
WARNING: Remote desktop does not support colour depth 24;
falling back to 16

