



# Rocky Linux 9.4 Project

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## 목차

- 1 Rocky Linux9.4 3대 설치
- 2 사용자 및 그룹 등록
- 3 디스크 추가 후 LVM 구성
- 4 디스크 쿼터 설정
- 5 서버 구성



# Rocky Linux9.4 설치

# Rocky Linux 서버 설정 확인

## Server1 설정

```
[root@server1 ~]# hostname
1 server1
[root@server1 ~]# lsblk
2 NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
sda 8:0 0 80G 0 disk
├─sda1 8:1 0 2G 0 part [SWAP]
└─sda2 8:2 0 78G 0 part /
sr0 11:0 1 1024M 0 rom
[root@server1 ~]# free -h
3
```

	total	used	free	shared	buff/cache	available
Mem:	3.5Gi	1.4Gi	946Mi	22Mi	1.5Gi	2.1Gi
Swap:	2.0Gi	0B	2.0Gi			

## Server3 설정

```
[lima@server3 ~]$ hostname
1 server3
[lima@server3 ~]$ lsblk
2 NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
sda 8:0 0 80G 0 disk
├─sda1 8:1 0 2G 0 part [SWAP]
└─sda2 8:2 0 78G 0 part /
sr0 11:0 1 1024M 0 rom
[lima@server3 ~]$ free -h
3
```

	total	used	free	shared	buff/cache	available
Mem:	3.5Gi	1.5Gi	789Mi	22Mi	1.5Gi	2.0Gi
Swap:	2.0Gi	0B	2.0Gi			

## Server2 설정

```
[lima@server2 ~]$ hostname
1 server2
[lima@server2 ~]$ lsblk
2 NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
sda 8:0 0 80G 0 disk
├─sda1 8:1 0 2G 0 part [SWAP]
└─sda2 8:2 0 78G 0 part /
sr0 11:0 1 1024M 0 rom
[lima@server2 ~]$ free -h
3
```

	total	used	free	shared	buff/cache	available
Mem:	3.5Gi	1.4Gi	801Mi	22Mi	1.6Gi	2.1Gi
Swap:	2.0Gi	0B	2.0Gi			

1 : 서버 설정

2 : 파티션 확인

3 : 용량 확인

# Rocky Linux 서버 3대 주소 설정

확인 명령어

주소 설정 확인

```
[root@server1 ~]# nmcli device show
GENERAL.DEVICE: ens160
GENERAL.TYPE: ethernet
GENERAL.HWADDR: 00:0C:29:DE:FF:2C
GENERAL.MTU: 1500
GENERAL.STATE: 100 (연결됨)
GENERAL.CONNECTION: ens160
GENERAL.CON-PATH: /org/freedesktop/NetworkManager/Device/ens160
WIRED-PROPERTIES.CARRIER: 켜짐
IP4.ADDRESS[1]: 192.168.111.100/24
IP4.GATEWAY: 192.168.111.2
IP4.ROUTE[1]: dst = 192.168.111.0/24, nh = 192.168.111.2, mt = 1500
IP4.ROUTE[2]: dst = 0.0.0.0/0, nh = 192.168.111.2, mt = 1500
IP4.DNS[1]: 8.8.8.8
IP6.ADDRESS[1]: fe80::20c:29ff:fedc:1::/64
IP6.GATEWAY: --
IP6.ROUTE[1]: dst = fe80::/64, nh = fe80::20c:29ff:fedc:1::, mt = 1500
```

Server1 주소 설정

```
GENERAL.DEVICE: ens160
GENERAL.TYPE: ethernet
GENERAL.HWADDR: 00:0C:29:79:76:1C
GENERAL.MTU: 1500
GENERAL.STATE: 100 (연결됨)
GENERAL.CONNECTION: ens160
GENERAL.CON-PATH: /org/freedesktop/NetworkManager/Device/ens160
WIRED-PROPERTIES.CARRIER: 켜짐
IP4.ADDRESS[1]: 192.168.111.150/24
IP4.GATEWAY: 192.168.111.2
IP4.ROUTE[1]: dst = 192.168.111.0/24, nh = 192.168.111.2, mt = 1500
IP4.ROUTE[2]: dst = 0.0.0.0/0, nh = 192.168.111.2, mt = 1500
IP4.DNS[1]: 8.8.8.8
IP6.ADDRESS[1]: fe80::20c:29ff:fe79:76::/64
IP6.GATEWAY: --
IP6.ROUTE[1]: dst = fe80::/64, nh = fe80::20c:29ff:fe79:76::, mt = 1500
```

Server2 주소 설정

```
GENERAL.DEVICE: ens160
GENERAL.TYPE: ethernet
GENERAL.HWADDR: 00:0C:29:32:5C:39
GENERAL.MTU: 1500
GENERAL.STATE: 100 (연결됨)
GENERAL.CONNECTION: ens160
GENERAL.CON-PATH: /org/freedesktop/NetworkManager/Device/ens160
WIRED-PROPERTIES.CARRIER: 켜짐
IP4.ADDRESS[1]: 192.168.111.200/24
IP4.GATEWAY: 192.168.111.2
IP4.ROUTE[1]: dst = 192.168.111.0/24, nh = 192.168.111.2, mt = 1500
IP4.ROUTE[2]: dst = 0.0.0.0/0, nh = 192.168.111.2, mt = 1500
IP4.DNS[1]: 8.8.8.8
IP6.ADDRESS[1]: fe80::20c:29ff:fe32:5c::/64
IP6.GATEWAY: --
IP6.ROUTE[1]: dst = fe80::/64, nh = fe80::20c:29ff:fe32:5c::, mt = 1500
```

Server3 주소 설정



# 사용자 및 그룹 등록

# Rocky Linux 사용자 등록

확인 명령어

사용자 등록 확인

```
[root@server1 ~]# tail /etc/passwd
tcpdump:x:72:72:/:/sbin/nologin
lima:x:1000:1000:server1:/home/lima:/bin/bash
sonhm:x:1001:1001:/:/sonhm:/bin/bash
leegi:x:1002:1002:/:/leegi:/bin/bash
kimmj:x:1003:1003:/:/kimmj:/bin/bash
hwanghc:x:1004:1004:/:/hwanghc:/bin/bash
yoonjy:x:1005:1005:/:/yoonjy:/bin/bash
kimtk:x:1006:1006:/:/kimtk:/bin/bash
kimhe:x:1007:1007:/:/kimhe:/bin/bash
parkjs:x:1008:1008:/:/parkjs:/bin/bash
```

Server 1 사용자 등록

```
[root@server2 ~]# tail /etc/passwd
tcpdump:x:72:72:/:/sbin/nologin
lima:x:1000:1000:server2:/home/lima:/bin/bash
sonhm:x:1001:1001:/:/sonhm:/bin/bash
leegi:x:1002:1002:/:/leegi:/bin/bash
kimmj:x:1003:1003:/:/kimmj:/bin/bash
hwanghc:x:1004:1004:/:/hwanghc:/bin/bash
yoonjy:x:1005:1005:/:/yoonjy:/bin/bash
kimtk:x:1006:1006:/:/kimtk:/bin/bash
kimhe:x:1007:1007:/:/kimhe:/bin/bash
parkjs:x:1008:1008:/:/parkjs:/bin/bash
```

Server 2 사용자 등록

```
[root@server3 ~]# tail /etc/passwd
tcpdump:x:72:72:/:/sbin/nologin
lima:x:1000:1000:server3:/home/lima:/bin/bash
sonhm:x:1001:1001:/:/sonhm:/bin/bash
leegi:x:1002:1002:/:/leegi:/bin/bash
kimmj:x:1003:1003:/:/kimmj:/bin/bash
hwanghc:x:1004:1004:/:/hwanghc:/bin/bash
yoonjy:x:1005:1005:/:/yoonjy:/bin/bash
kimtk:x:1006:1006:/:/kimtk:/bin/bash
kimhe:x:1007:1007:/:/kimhe:/bin/bash
parkjs:x:1008:1008:/:/parkjs:/bin/bash
```

Server 3 사용자 등록

# Rocky Linux 그룹 등록

확인 명령어

```
[root@server1 ~]# 1 tail /etc/group
sonhm:x:1001:
leegi:x:1002:
kimmj:x:1003:
hwanghc:x:1004:
yoonjy:x:1005:
kimtk:x:1006:
kimhe:x:1007:
parkjs:x:1008:
2 eusoccer:x:1009:sonhm,leegi,kimmj,hwanghc
krsoccer:x:1010:yoonjy,kimtk,kimhe,parkjs
```

Server1 그룹 등록

```
[root@server2 ~]# tail /etc/group
sonhm:x:1001:
leegi:x:1002:
kimmj:x:1003:
hwanghc:x:1004:
yoonjy:x:1005:
kimtk:x:1006:
kimhe:x:1007:
parkjs:x:1008:
eusoccer:x:1009:sonhm,leegi,kimmj,hwanghc
krsoccer:x:1010:yoonjy,kimtk,kimhe,parkjs
```

Server2 그룹 등록

```
[root@server3 ~]# tail /etc/group
sonhm:x:1001:
leegi:x:1002:
kimmj:x:1003:
hwanghc:x:1004:
yoonjy:x:1005:
kimtk:x:1006:
kimhe:x:1007:
parkjs:x:1008:
eusoccer:x:1009:sonhm,leegi,kimmj,hwanghc
krsoccer:x:1010:yoonjy,kimtk,kimhe,parkjs
```

Server3 그룹 등록

그룹 등록 확인





# 디스크 추가 후 LVM 구성

## Rocky Linux LVM 구성 (Server 2)

확인 명령어

```
[root@server2 ~]# pvscan
PV /dev/sdb1   VG DATA   lvm2 [<20.00 GiB / 0   free]
PV /dev/sdc1   VG DATA   lvm2 [<30.00 GiB / 0   free]
PV /dev/sdd1   VG DATA   lvm2 [<50.00 GiB / 0   free]
Total: 3 [<99.99 GiB] / in use: 3 [<99.99 GiB] / in no VG: 0 [0   ]
```

확인 명령어

```
[root@server2 ~]# lvscan
ACTIVE          '/dev/DATA/VIDEO' [40.00 GiB] inherit
ACTIVE          '/dev/DATA/AUDIO' [<59.99 GiB] inherit
```

확인 명령어

```
[root@server2 ~]# vgs
--- Volume group ---
VG Name          DATA
System ID
Format            lvm2
Metadata Areas    3
Metadata Sequence No 3
VG Access         read/write
VG Status         resizable
MAX LV            0
Cur LV           2
Open LV           2
Max PV            0
Cur PV           3
Act PV            3
VG Size           <99.99 GiB
PE Size           4.00 MiB
Total PE          25597
Alloc PE / Size   25597 / <99.99 GiB
Free PE / Size    0 / 0
VG UUID           xFof9N-JVcW-D9T7-fnUG-fPTG-4pkm-PNp8Yd
```

- VIDEO(40G), AUDIO(나머지)로 구성함
- PV는 각각 20G/30G/50G로 구성함



# 디스크 쿼터 설정

## Rocky Linux 디스크 쿼터 설정(Server 3)

확인 명령어

```
[root@server3 userHome]# repquota /userHome/
*** Report for user quotas on device /dev/sdb1
Block grace time: 7days; Inode grace time: 7days

Block limits
User      used  soft  hard  grace
-----
root      --    20    0    0
aespa     --    28  716800 1048576 7
IVE       --    28  716800 1048576 7
NewJeans  --    28  716800 1048576 7

File limits
User      used  soft  hard  grace
-----
root      --    3    0    0
aespa     --    7    0    0
IVE       --    7    0    0
NewJeans  --    7    0    0
```

- 하드디스크 10G 추가
- aespa, IVE, NewJeans 이름으로 사용자 추가

확인 명령어

```
[root@server3]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sda          8:0    0   80G  0 disk
├─sda1       8:1    0    2G  0 part [SWAP]
└─sda2       8:2    0   78G  0 part /
sdb          8:16   0   10G  0 disk
├─sdb1       8:17   0   10G  0 part /userHome
sr0         11:0    1  10.2G  0 rom  /run/media/root/Rocky-9-4-x86_64-dvd
```

새로 만든 하드디스크에  
사용자 추가



# Rocky Linux SSH Server 구성

Server3 접속

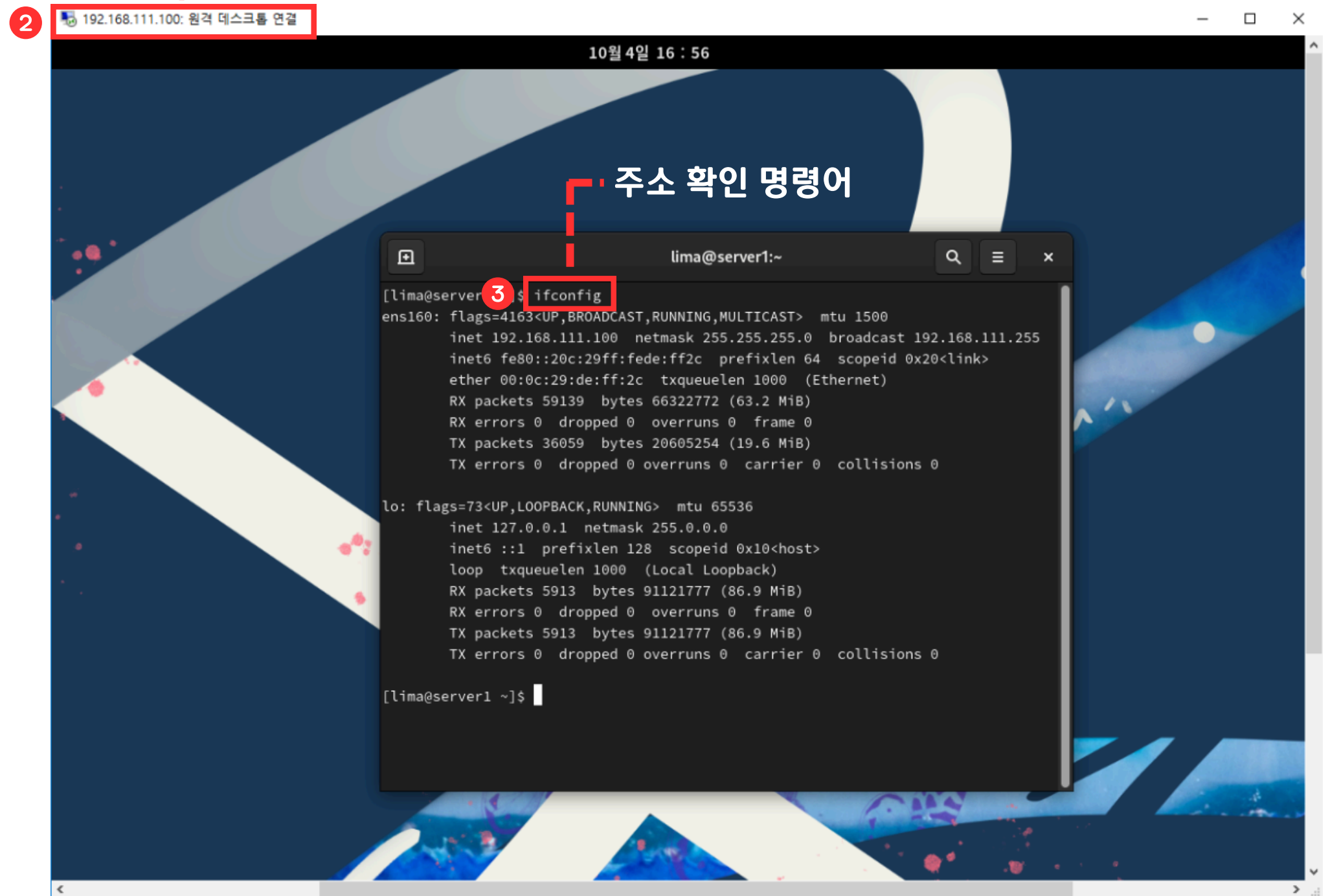
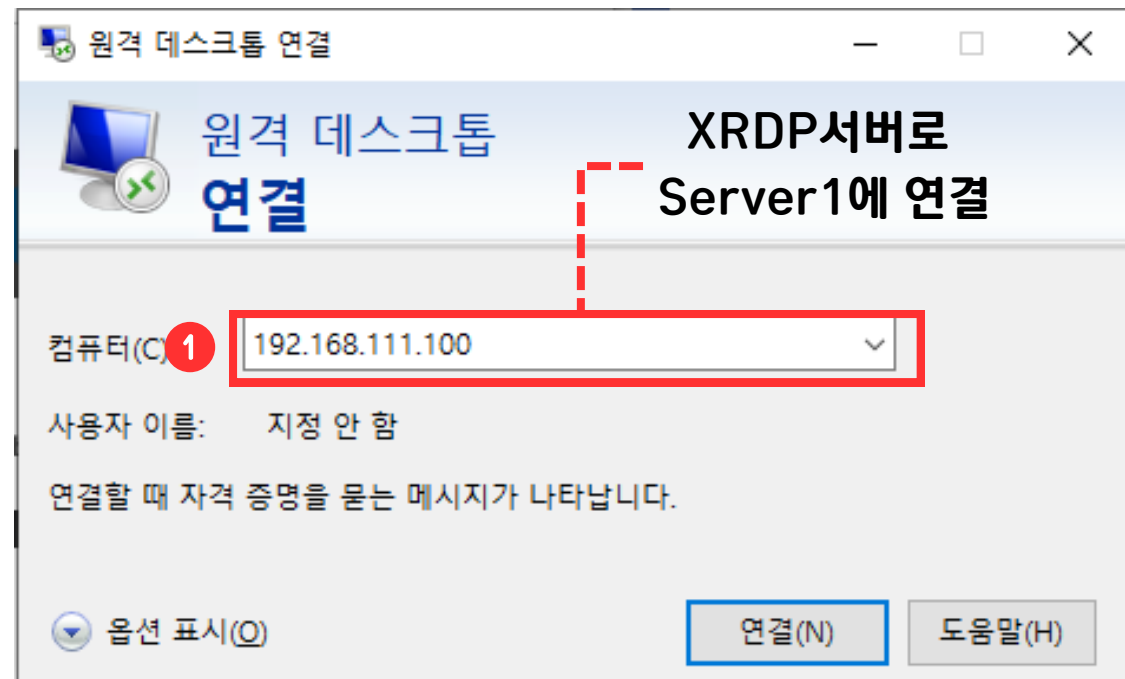
Server2 IP 접속 명령어

```
1 [root@server3 ~] # ssh lima@192.168.111.150 2
The authenticity of host '192.168.111.150 (192.168.111.150)' can't be established.
ED25519 key fingerprint is SHA256:Gq4sR0OfF4kMq0Koxy2kxljuEuQ+et/zAH58ykn3Pv4.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.111.150' (ED25519) to the list of known hosts.
lima@192.168.111.150's password:
Last login: Wed Oct  2 20:44:50 2024
3 [lima@server2 ~]$ ls -l ----- Server2 접속 및 DIR확인
합계 0
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 공개
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 다운로드
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 문서
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 바탕화면
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 비디오
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 사진
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 서식
drwxr-xr-x. 2 lima lima 6 10월  2 20:44 음악
```

- Server3에서 SSH Server로 Server2의 IP 주소입력 후 접속

# Rocky Linux XRDP Server 구성

원격 데스크톱 연결 성공



- XRDP 서버로 Server1에 원격 접속

# Rocky Linux DNS Server 구성

주소 확인 명령어

```
root@server1:/var/named — /usr/bin/vim bsfan.com.db

$TTL      3H
@          SOA      @      root.      ( 2 1D 1H 1W 1H )
          IN        NS      @
          IN        A       192.168.111.100

1 server1 IN      A       192.168.111.100
  server2 IN      A       192.168.111.150
  www      IN      CNAME   server2
  ftp      IN      CNAME   server2
```

Server1 설치 및  
Server2의 CNAME 설정

```
[root@server1 name2]# nslookup

> server 192.168.111.100
Default server: 192.168.111.100
Address: 192.168.111.100#53

> www.naver.com
Server:          192.168.111.100
Address:         192.168.111.100#53

Non-authoritative answer:
www.naver.com    canonical name = www.naver.com.nheos.com.
Name:   www.naver.com.nheos.com
Address: 223.130.192.247

Name:   www.naver.com.nheos.com
Address: 223.130.192.248
Name:   www.naver.com.nheos.com
Address: 223.130.200.219
Name:   www.naver.com.nheos.com
Address: 223.130.200.236
```

확인 명령어

```
[root@server2 ~]# nslookup

> server
Default server: 192.168.111.100
Address: 192.168.111.100#53
```

DNS 서버 동작 확인



# Rocky Linux Web Server 구성

httpd 설치

```
[root@server2 ~]# 1 dnf install httpd
Extra Packages for Enterprise Linux 9 - x86_64 16 kB/s | 12 kB 00:00
Extra Packages for Enterprise Linux 9 - x86_64 23 MB/s | 23 MB 00:00
Rocky Linux 9 - BaseOS 3.1 kB/s | 4.1 kB 00:01
Rocky Linux 9 - AppStream 6.6 kB/s | 4.5 kB 00:00
Rocky Linux 9 - Extras 4.2 kB/s | 2.9 kB 00:00
```

서비스 활성화

```
[root@server2 ~]# 2 systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@server2 ~]# systemctl restart httpd
[root@server2 ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Mon 2024-10-07 20:57:10 KST; 10s ago
     Docs: man:httpd.service(8)
   Main PID: 40920 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served: 0"
   Tasks: 177 (limit: 22836)
   Memory: 21.7M
    CPU: 59ms
   CGroup: /system.slice/httpd.service
           └─40920 /usr/sbin/httpd -DFOREGROUND
             40922 /usr/sbin/httpd -DFOREGROUND
             40926 /usr/sbin/httpd -DFOREGROUND
             40927 /usr/sbin/httpd -DFOREGROUND
             40929 /usr/sbin/httpd -DFOREGROUND
```

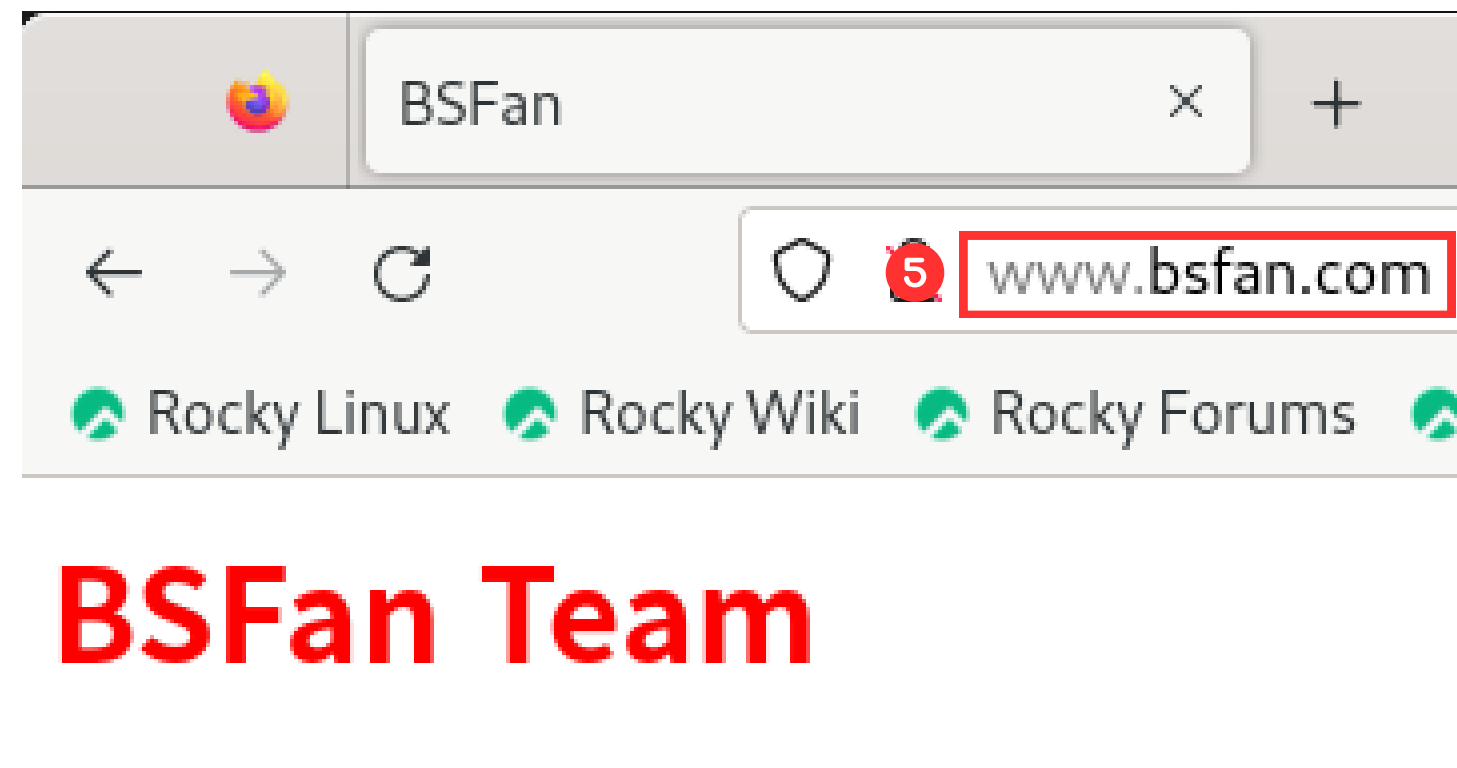
# Rocky Linux Web Server 구성

----- /etc/httpd/conf/httpd.conf 환경 설정

```
[root@server2 ~]# 3 vi /etc/httpd/conf/httpd.conf
[root@server2 ~]# 4 firewall-cmd --permanent --add-service=https
success

[root@server2 ~]# sudo firewall-cmd --reload
success
```

----- 방화벽 설정



BSFan 도메인 이름으로 웹 서버 접속

# Rocky Linux FTP Server 구성

```
[root@server2 ~]# systemctl start vsftpd
[root@server2 ~]# systemctl enable vsftpd
Created symlink /etc/systemd/system/multi-user.target.wants/vsftpd.service → /usr/lib/systemd/system/vsftpd.service.
[root@server2 ~]# systemctl status vsftpd
● vsftpd.service - Vsftpd ftp daemon
   Loaded: loaded (/usr/lib/systemd/system/vsftpd.service; enabled; preset: disabled)
   Active: active (running) since Mon 2024-10-07 21:32:02 KST; 20s ago
     Main PID: 42371 (vsftpd)
        Tasks: 1 (limit: 22836)
       Memory: 720.0K
          CPU: 2ms
       CGroup: /system.slice/vsftpd.service
               └─42371 /usr/sbin/vsftpd /etc/vsftpd/vsftpd.conf

10월 07 21:32:02 server2 systemd[1]: Starting Vsftpd ftp daemon...
10월 07 21:32:02 server2 systemd[1]: Started Vsftpd ftp daemon.
```

서비스 시작 및 활성화

방화벽 설정

```
[root@server2 ~]# firewall-cmd --permanent --add-service=ftp
success
[root@server2 ~]# firewall-cmd --reload
success
[root@server2 ~]# firewall-cmd --list-services
cockpit dhcpv6-client ftp http https ssh
```

ftp 접속 확인

```
[root@server1 ~]# ftp ftp.bsfan.com
Connected to ftp.bsfan.com (192.168.111.150).
220 (vsFTPd 3.0.5)
Name (ftp.bsfan.com:root): lima
331 Please specify the password.
Password:
230 Login successful.

Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
227 Entering Passive Mode (192,168,111,150,235,15).
150 Here comes the directory listing.
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 공개
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 다운로드
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 문서
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 바탕화면
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 비디오
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 사진
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 서식
drwxr-xr-x  2 1000    1000          6 Oct 02 11:44 음악
226 Directory send OK.
```

# Rocky Linux NFS Server 구성

```
[root@server2 ~]# mkdir /share
[root@server2 ~]# chmod 707 /share
[root@server2 ~]# cp /boot/vm* /share
[root@server2 ~]# ls /share
vmlinuz-0-rescue-5209e4bf962e43ed9d83a6bec28224b3 vmlinuz-5.14.0-427.13.1.el9_4.x86_64
[root@server2 ~]# groupadd itwill
[root@server2 ~]# usermod -aG itwill lima
[root@server2 ~]# chown root:itwill /share
[root@server2 ~]# chmod 770 /share
```

/etc/exports 디렉터리에 공유할 디렉터리 생성  
itwill 그룹 읽기 쓰기 권한 허용

서비스 가동 확인

```
[root@server2 ~]# exportfs -v
/share                <world>(sync,wdelay,hide,no_subtree_check,sec=sys,rw,secure,root_squash,no_all_squash)
```

```
[root@server2 ~]# firewall-cmd --permanent --add-service=nfs
success
[root@server2 ~]# firewall-cmd --permanent --add-service=mountd
success
[root@server2 ~]# firewall-cmd --permanent --add-service=rpc-bind
success
[root@server2 ~]# firewall-cmd --reload
success
```

방화벽 설정

• Server2에 NFS Server 설정

# Rocky Linux NFS Server 구성

```
[root@server1 ~]# 7 showmount -e 192.168.111.150
Export list for 192.168.111.150:
/share *
```

Servr1에서 접속 할 NFS Server(Server2)  
공유 디렉터리 확인

공유 디렉터리 생성 및 마운트

```
[root@server1 ~]# cd
[root@server1 ~]# 8 mkdir myShare
[root@server1 ~]# mount -t nfs 192.168.111.150:/share myShare
```

```
[root@server1 ~]# 9 sudo groupadd itwill
[root@server1 ~]# sudo usermod -aG itwill lima
[root@server1 ~]# id lima
10 uid=1000(lima) gid=1000(lima) groups=1000(lima),1011(itwill)
[root@server1 ~]# su - lima
```

공유 된 디렉터리 접속을 위한 그룹 생성 및 lima 사용자 추가

추가된 lima 사용자의 권한이 똑같은지 확인

마운트 된 공유 디렉터리 내용 확인

```
[lima@server1 ~]$ ls -l myShare
합계 26576
-rwxr-xr-x. 1 root root 13605704 10월  8 20:24 vmlinuz-0-rescue-5209e4bf962e43ed
9d83a6bec28224b3
-rwxr-xr-x. 1 root root 13605704 10월  8 20:24 vmlinuz-5.14.0-427.13.1.el9_4.x86
_64
[lima@server1 ~]$
```

# Rocky Linux DHCP Server 구성

```
[root@server3 ~]# 1 vi /etc/dhcp/dhcpd.conf
[root@server3 ~]# vi /usr/share/doc/dhcp-server/dhcpd.conf.example
[root@server3 ~]# vi /etc/dhcp/dhcpd.conf
2 [root@server3 ~]# ls -l /var/lib/dhcpd/dhcpd.leases
-rw-r--r--. 1 dhcpd dhcpd 0 10월 26 2023 /var/lib/dhcpd/dhcpd.leases
```

DHCP 클라이언트가 IP주소가 기록된 파일 확인

```
root@server3:~ — /usr/bin/vim /etc/dhcp/dhcpd.conf
#
# DHCP Server Configuration file.
#   see /usr/share/doc/dhcp-server/dhcpd.conf.example
#   see dhcpd.conf(5) man page
#
subnet 192.168.111.0 netmask 255.255.255.0 {
    option routers 192.168.111.2 ;
    option subnet-mask 255.255.255.0 ;
    range dynamic-bootp 192.168.111.55 192.168.111.99 ;
    option domain-name-servers 8.8.8.8 ;
    default-lease-time 10000 ;
    max-lease-time 50000 ;
}
```

DHCP 환경설정  
파일 수정

# Rocky Linux DHCP Server 구성

시스템 시작 및 활성화

```
[root@server3 ~]# 3 systemctl restart dhcpd
[root@server3 ~]# systemctl enable dhcpd
Created symlink /etc/systemd/system/multi-user.target.wants/dhcpd.service → /usr/lib/systemd/system/dhcpd.service.
```

```
[root@server3 ~]# 4 firewall-cmd --permanent --add-service=dhcp
success
[root@server3 ~]# firewall-cmd --reload
success
[root@server3 ~]# firewall-cmd --list-services
cockpit dhcp dhcpv6-client samba samba-client ssh
```

방화벽 설정

# Rocky Linux Samba Server 구성

```
[root@server3 ~]# 1 mkdir /share
[root@server3 ~]# groupadd sambaGroup
[root@server3 ~]# chgrp sambaGroup /share
[root@server3 ~]# chmod 770 /share
[root@server3 ~]# usermod -G sambaGroup lima
[root@server3 ~]# smbpasswd -a lima
New SMB password:
Retype new SMB password:
Added user lima.
[root@server3 ~]# 2 vi /etc/samba/smb.conf
[root@server3 ~]# testparm
Load smb config files from /etc/samba/smb.conf
3 Loaded services file OK.
Weak crypto is allowed by GnuTLS (e.g. NTLM as a compatibility fallback)

Server role: ROLE_STANDALONE
```

Samba의 사용이 허가된 그룹 생성  
및 lima 사용자를 그룹에 포함

파일 오류 확인

```
root@server3:~ — /usr/bin/vim /etc/samba/smb.conf
[global]
    workgroup = INBO
    unix charset = UTF-8
    map to guest= Bad User

    security = user

    passdb backend = tdbsam

    printing = cups
    printcap name = cups
    load printers = yes
    cups options = raw

[Share]
    path = /share
    writable = yes
    guest ok = no
    create mode = 0777
    directory mode = 0777
    valid users = @sambaGroup
```

Samba 환경설정 수정



# Rocky Linux Samba Server 구성

시스템 시작 및 활성화

```
[root@server3 ~]# systemctl restart smb nmb
[root@server3 ~]# systemctl enable smb nmb
Created symlink /etc/systemd/system/multi-user.target.wants/smb.service → /usr/lib/systemd/system/smb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/nmb.service → /usr/lib/systemd/system/nmb.service.
[root@server3 ~]# firewall-cmd --permanent --add-service=samba
success
[root@server3 ~]# firewall-cmd --permanent --add-service=samba-client
success
[root@server3 ~]# firewall-cmd --reload
success
[root@server3 ~]# setsebool -P samba_enable_home_dirs on
[root@server3 ~]# chcon -R -t samba_share_t /share
```

방화벽 설정

SELinux 설정



네트워크 드라이브 연결

# Rocky Linux Mail Server 구성

```
root@server1:~  
$TTL      3H  
@          SOA      @      root.      ( 2 1D 1H 1W 1H )  
           IN       NS      @  
           IN       A       192.168.111.100  
           IN       MX      10      bsfan.com  
  
server1    IN       A       192.168.111.100  
server2    IN       A       192.168.111.150  
www        IN       CNAME    server2  
ftp        IN       CNAME    server2  
  
mail       IN       A       192.168.111.200
```

1

DNS Server에 Mail 처리 컴퓨터 지정

## 2 파일 수정

### 1. /etc/mail/sendmail.cf 파일 수정

- Cwlocalhost -> Cwbsfan.com
- Addr=127.0.0.1-> 삭제

### 2. /etc/mail/accesse 파일 수정

- bsfan.com RELAY
- 192.168.111 RELAY (컴퓨터와 릴레이 허용) =>2가지를 입력

### 3. /etc/dovecot/dovecot.conf 파일 수정

- protocols = imap pop3 lmtp submission -> 주석 제거
- listen = \*, :: , base\_dir = /var/run/dovecot/ -> 주석 제거

### 4. /etc/dovecot/conf.d/10-ssl.conf 파일 수정

- ssl = required -> ssl = yes

### 5. /etc/dovecot/conf.d/10-mail.conf 파일 수정

- mail\_location = mbox:~/mail:INBOX=/var/mail/%u -> 주석 제거
- mail\_access\_groups = mail , lock\_method = fcntl -> 주석 제거

# Rocky Linux Mail Server 구성

```
[root@mail ~]# makemap hash /etc/mail/access < /etc/mail/access
[root@mail ~]# systemctl restart sendmail
[root@mail ~]# systemctl enable sendmail
root@mail ~# systemctl restart dovecot
```

다운 받은 패키지 시작 및 활성화

```
[root@mail ~]# firewall-cmd --permanent --add-service=smtp imap pop3
[root@mail ~]# firewall-cmd --reload
success
```

방화벽 설정

5

환영합니다

신상 정보

필요 정보

메일 받기

메일 보내기

계정 요약

아래에 이름과 메일 주소를 입력하십시오. 그 아래에 있는 “

전체 이름(E): yoon

전자메일 주소(A): yoon@bsfan.com

에볼루션 설정 1



서버 종류(T): POP

설명: POP 서버에 연결해서 메일을 받음.

설정

서버(S): mail.bsfan.com 포트(P): 995

사용자 이름(N): yoon

보안

암호화 방식(M): TLS, 특정 포트 사용

인증

지원하는 방식 확인 암호

에볼루션 설정 2



서버 종류(T): SMTP

설명: SMTP를 사용해서 원격 메일함으로 연결해 메일을 보냅니다.

설정

서버(S): mail.bsfan.com 포트(P): 25

보안

암호화 방식(M): 암호화 없음

에볼루션 설정 3



다음은 메일을 읽고 쓸 때 사용할 설정 요약입니다.

계정 정보

이름(N): bsfan mail

위의 이름으로 계정을 구별합니다.  
예: “업무” 또는 “개인”.

개인 상세 정보

에볼루션 설정 4



21342134

파일(F) 편집(E) 보기(V) 찾기(I) 형식(M) 옵션(O)

보낸 사람(O): yoon <yoon@bsfan.com> 서명(G): 없음

받는 사람(T): jon04025@gmail.com

참조(C):

제목(U): 21342134

일반 텍스트(T) 보통(N)

123421342143214321432143214324

첨부 모음 보기(B) 첨부 추가(D) 아이콘 보기

메일 보내기

# Rocky Linux Maria DB 구성 및 접속

서비스 시작 및 활성화

```
[root@server2 ~]# systemctl start mariadb
[root@server2 ~]# systemctl enable mariadb
Created symlink /etc/systemd/system/mysql.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/mysqld.service → /usr/lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /usr/lib/systemd/system/mariadb.service.
```

```
[root@server2 ~]# firewall-cmd --permanent --add-service=mysql
success
[root@server2 ~]# firewall-cmd --reload
success
[root@server2 ~]# firewall-cmd --list-service
```

방화벽 설정

DB관리자 비밀번호 변경 및 접속

```
[root@server2 ~]# mysqladmin -u root password '1234';
[root@server2 ~]# mysql -h localhost -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 5
Server version: 10.5.22-MariaDB MariaDB Server
```

Maria DB 활성화, 시작  
및 데이터베이스 검색

```
[root@server1 ~]# systemctl restart mariadb
[root@server1 ~]# systemctl enable mariadb
[root@server1 ~]# mysql -h 192.168.111.150 -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ;
Your MariaDB connection id is 12
Server version: 10.5.22-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
+-----+
3 rows in set (0.001 sec)

MariaDB [(none)]>
```

4 MariaDB [mysql]> use mysql;  
Database changed

mysql로 DB 전환

5 MariaDB [(none)]> GRANT ALL PRIVILEGES ON \*.\* TO 'root'@'%' IDENTIFIED BY '1234' WITH GRANT OPTION;  
Query OK, 0 rows affected (0.019 sec)

모든 DB에 대한 권한 부여