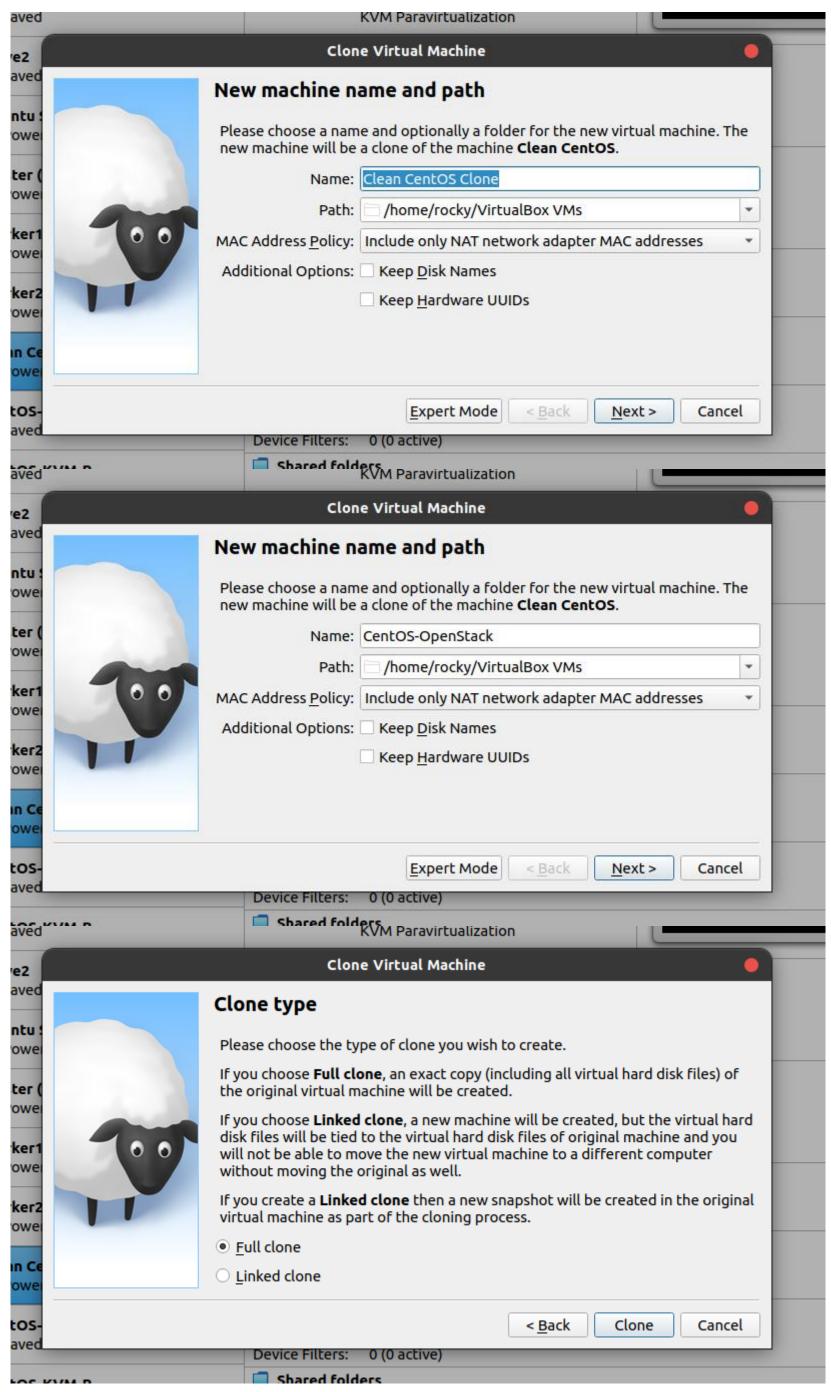
Cloud Computing Homework #9



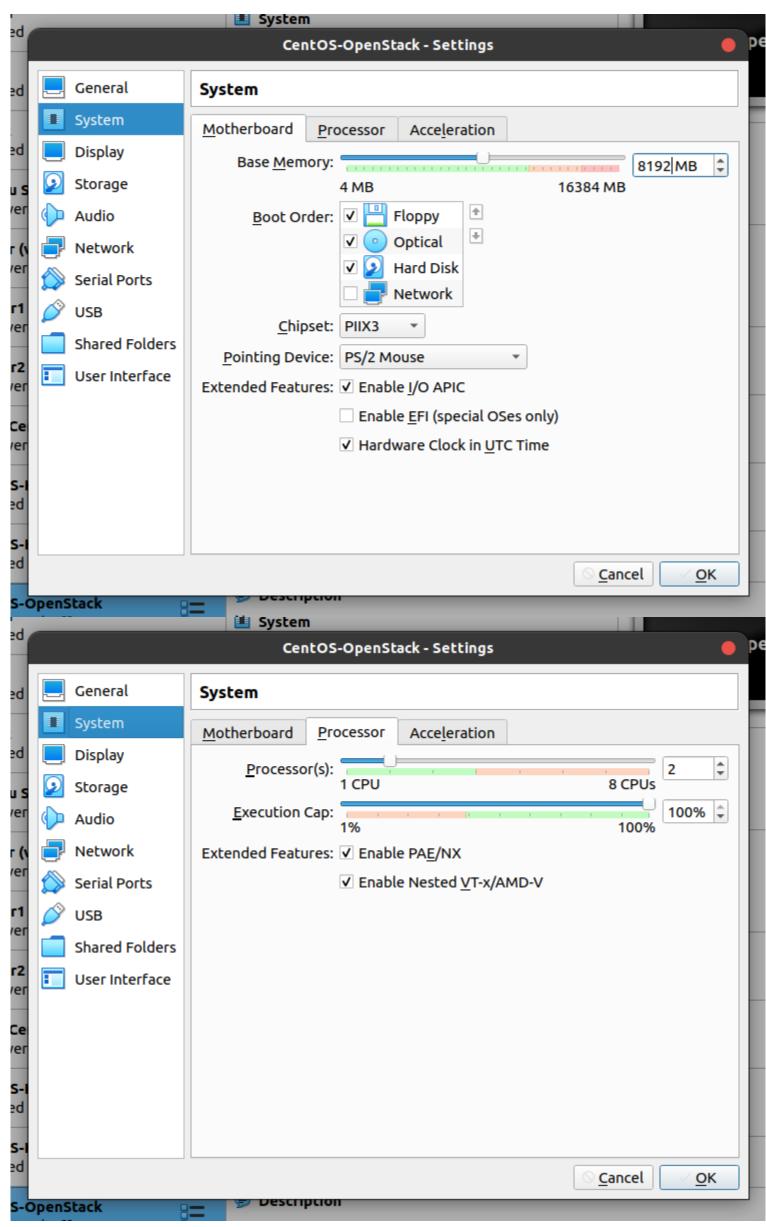
소프트웨어학과 2020039091 어록희

Chapter #13

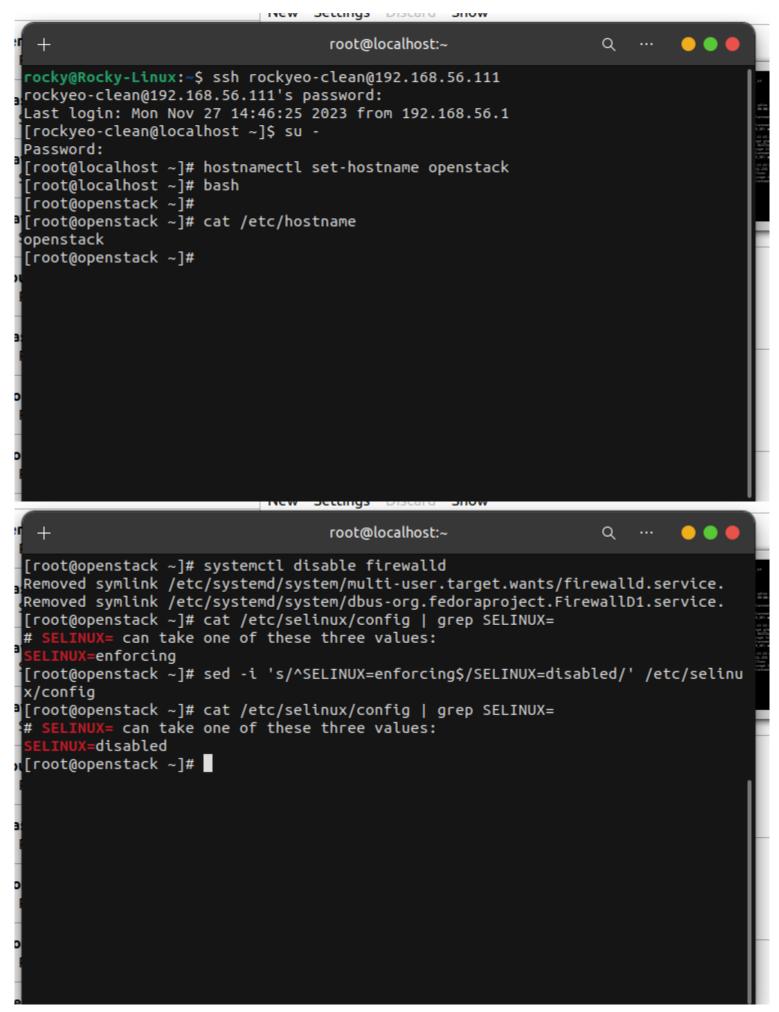


가상머신 복사





복사된 가상머신 세팅



Hostname 변경 및 방화벽, selinux Disable

```
New Jecungs Discord Show
                                  root@localhost:~
[root@openstack ~]# systemctl status NetworkManager
NetworkManager.service - Network Manager
   Loaded: loaded (/usr/lib/systemd/system/NetworkManager.service; enabled; vend
or preset: enabled)
  Active: active (running) since Mon 2023-11-27 14:45:35 KST; 3min 14s ago
     Docs: man:NetworkManager(8)
 Main PID: 690 (NetworkManager)
   CGroup: /system.slice/NetworkManager.service
            —690 /usr/sbin/NetworkManager --no-daemon
            —817 /sbin/dhclient -d -q -sf /usr/libexec/nm-dhcp-helper -pf /va...
           └─818 /sbin/dhclient -d -q -sf /usr/libexec/nm-dhcp-helper -pf /va...
[root@openstack ~]# systemctl stop NetworkManager
 root@openstack ~]#
[root@openstack ~]# systemctl restart network
[root@openstack ~]#
```

Hostname 변경 및 방화벽, selinux Disable

```
[root@openstack ~]# yum update
Loaded plugins: fastestmirror
Determining fastest mirrors
 * base: mirror.elice.io
 * extras: mirror.elice.io
 * updates: mirror.elice.io
                                                            3.6 kB
                                                                       00:00
base
extras
                                                            2.9 kB
                                                                       00:00
updates
                                                            2.9 kB
                                                                       00:00
 [root@openstack ~]# yum list centos-release-openstack-*
 Loaded plugins: fastestmirror
 Loading mirror speeds from cached hostfile
  * base: mirror.elice.io
  * extras: mirror.elice.io
  * updates: mirror.elice.io
ve Available Packages
 centos-release-openstack-queens.noarch
                                                   1-2.el7.centos
                                                                            extras
centos-release-openstack-rocky.noarch
                                                   1-1.el7.centos
                                                                            extras
 centos-release-openstack-stein.noarch
                                                   1-1.el7.centos
                                                                            extras
 centos-release-openstack-train.noarch
                                                   1-1.el7.centos
                                                                            extras
  [root@openstack ~]#
  [root@openstack ~]# yum install -y centos-release-openstack-train.noarch
  Loaded plugins: fastestmirror
<sup>/e</sup>Loading mirror speeds from cached hostfile
  * base: mirror.elice.io
  * extras: mirror.elice.io
  * updates: mirror.elice.io
 Resolving Dependencies
tu--> Running transaction check
   --> Package centos-release-openstack-train.noarch 0:1-1.el7.centos will be inst
   -> Processing Dependency: centos-release-qemu-ev for package: centos-release-op
  enstack-train-1-1.el7.centos.noarch
   -> Processing Dependency: centos-release-ceph-nautilus for package: centos-rele
  root@openstack ~]# yum install -y openstack-packstack
```

Yum update 후 openstack 설치



```
wered Off
                             Name:
                                               CentOS-OpenStack
                                        root@openstack:~
    [root@openstack ~]# packstack --help 2>&1 | head -n 1
   Usage: packstack [options] [--help]
   [root@openstack ~]#
   [root@openstack ~]# packstack --gen-answer-file answer.txt
   Packstack changed given value to required value /root/.ssh/id_rsa.pub
Additional information:
ive [root@openstack ~]# ls
  anaconda-ks.cfg answer.txt
ntu [root@openstack ~]#
owe
root@openstack ~]# cat answer.txt | grep HOST
  CONFIG_CONTROLLER_HOST=10.0.2.15
CONFIG_COMPUTE_HOSTS=10.0.2.15

CONFIG_NETWORK_HOSTS=10.0.2.15
   CONFIG_VCENTER_HOST=
CONFIG_STORAGE_HOST=10.0.2.15

OVE CONFIG_SAHARA_HOST=10.0.2.15

CONFIG_AMQP_HOST=10.0.2.15
CONFIG_MARIADB_HOST=10.0.2.15
   CONFIG_CINDER_NETAPP_HOSTNAME=
  CONFIG_CINDER_NETAPP_ESERIES_HOST_TYPE=linux_dm_mp
   # CONFIG_CINDER_NETAPP_TRANSPORT_TYPE, CONFIG_CINDER_NETAPP_HOSTNAME,
ter # and CONFIG_CINDER_NETAPP_HOSTNAME options to create the URL used by
CONFIG_CINDER_SOLIDFIRE_HOSTNAME=
   CONFIG_MANILA_NETAPP_SERVER_HOSTNAME=
cer config_tempest_host=
pweconfig_redis_host=10.0.2.15
  [root@openstack ~]#
   [root@openstack ~]# cat answer.txt | grep ADMIN_USERNAME
   CONFIG_KEYSTONE_
  [root@openstack ~]#
IVE [root@openstack ~]# cat answer.txt | grep CONFIG_DEFAULT_PASSWORK
   [root@openstack ~]# cat answer.txt | grep CONFIG_DEFAULT_PASSWORD
e2
ive [root@openstack ~]#
```

Packstack 명령어 동작 확인 초기 세팅 확인

```
owered Off
                          Name:
                                         CentOS-OpenStack
                                   root@openstack:~
ter
  [root@openstack ~]# packstack --allinone
  Welcome to the Packstack setup utility
The installation log file is available at: /var/tmp/packstack/20231127-151012-XF
  cwOZ/openstack-setup.log
e2
eve Installing:
  Clean Up
                                                       DONE
ntuDiscovering ip protocol version
                                                         DONE
  Setting up ssh keys
  [root@openstack ~]# ls -l
  total 116
   rw-----. 1 root root 1436 Nov 15 15:02 anaconda-ks.cfg
   -rw------ 1 root root 51733 Nov 27 15:08 answer.txt
   rw------ 1 root root 369 Nov 27 15:18 keystonerc_admin
   -rw----- 1 root root 314 Nov 27 15:18 keystonerc_demo
we -rw----- 1 root root 51733 Nov 27 15:10 packstack-answers-20231127-151013.txt
  [root@openstack ~]#
```

Packstack 셋업 후 생성된 파일 확인

```
ntu[root@openstack ~]# cat keystonerc_admin
OWEUNSET OS_SERVICE_TOKEN
       export OS_USERNAME=admin
      export OS_PASSWORD='b1396e67ab414087'
er
      export OS_REGION_NAME=RegionOne
ow€
      export OS_AUTH_URL=http://10.0.2.15:5000/v3
      export PS1='[\u@\h \W(keystone_admin)]\$ '
кег
OWEEXPORT OS_PROJECT_NAME=admin
  export OS_USER_DOMAIN_NAME=Default
ker export OS_PROJECT_DOMAIN_NAME=Default
DWEEXPORT OS_IDENTITY_API_VERSION=3
      [root@openstack ~]#
root@openstack ~]# source keystonerc_admin
  [root@openstack ~(keystone_admin)]# openstack user list
Failed to discover available identity versions when contacting http://10.0.2.15:
IVE 5000/v3. Attempting to parse version from URL.
  Unable to establish connection to http://10.0.2.15:5000/v3/auth/tokens: HTTPConn
e2 ectionPool(host='10.0.2.15', port=5000): Max retries exceeded with url: /v3/auth
ive /tokens (Caused by NewConnectionError('<urllib3.connection.HTTPConnection object
   at 0x7fc9e60559d0>: Failed to establish a new connection: [Errno 111] Connectio
ntun refused',))
<sub>ow.</sub>[root@openstack ~(keystone_admin)]#
```

Keystonerc 초기 계정정보 확인 후 접속 User list를 실행해보았으나 외부연결이 되어있지 않아 연결 실패



연습문제

5. 오픈스택의 서비스들을 리스트하고 각각의 역할들에 대해서 설명하라.

Nova

컴퓨팅 리소스를 위한 전체 관리 및 액세스 툴로써 스케줄링, 생성, 삭제 처리

Neutron

OpenStack 서비스 네트워크 연결

Swift

내결함성이 뛰어난 오브젝트 스토리지 서비스 RESTful API를 사용해 구조화되지 않은 애플리케이션 저장 및 검색

Cinder

셀프 서비스 API를 통해 접근 가능한 퍼시스턴트 블록 스토리지

Keystone

OpenStack 서비스를 인증 및 권한 부여

Glance

가상 머신 디스크 이미지 저장 및 검색.