

HTCondor 설치 및 설정

0. 준비

- OS 버전 확인 : # cat /etc/redhat-release
- SELINUX 상태 확인 : # getenforce
- 방화벽 설정 확인 : # systemctl status firewalld.service
- 호스트네임 확인 : # hostname
- 네트워크 확인 : # ping groupXX-wnXX

1. 설치 준비

- # cd /etc/yum.repos.d/
- # sudo wget https://research.cs.wisc.edu/htcondor/yum/RPM-GPG-KEY-HTCondor
- # sudo rpm --import RPM-GPG-KEY-HTCondor
- # sudo wget https://research.cs.wisc.edu/htcondor/yum/repo.d/htcondor-stable-rhel7.repo -O /etc/yum.repos.d/htcondor-stable-rhel7.repo
- # sudo timedatectl set-ntp true

2. 설치

- #sudo yum install -y condor

3. HTCondor 설정

- 일반적인 설정 : #sudo vim /etc/condor/config.d/cluster.conf

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# The following should be your cluster domain. This is an arbitrary string used
by Condor, not necessarily matching your IP domain
UID_DOMAIN = gX.gsdc.org
# Human readable name for your Condor pool
COLLECTOR_NAME = "GSDC School"
# A shared file system (NFS), e.g. job dir, is assumed if the name is the same
FILESYSTEM_DOMAIN = gX.gsdc.org
# Here you have to use your network domain, or any comma separated list of
hostnames and IP addresses including all your
# condor hosts. * can be used as wildcard
ALLOW_WRITE = *.gX.gsdc.org
ALLOW_READ = *.gX.gsdc.org
CONDOR_ADMIN = root@$(FULL_HOSTNAME)
# The following should be the full name of the head node (Condor central
manager)
CONDOR_HOST = groupXX-mn
# Port range should be opened in the firewall (can be different on different
machines)
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# This 9000-9999 is coherent with the iptables configuration in the Firewall
documentation
IN_HIGHPORT = 9999
IN_LOWPORT = 9000
# This is to enforce password authentication
SEC_DAEMON_AUTHENTICATION = required
SEC_DAEMON_AUTHENTICATION_METHODS = password
SEC_CLIENT_AUTHENTICATION_METHODS = password,fs,gsi
SEC_PASSWORD_FILE = /var/lib/condor/condor_credential
ALLOW_DAEMON = condor_pool@*
## Scheduling parameters for the startd
TRUST_UID_DOMAIN = TRUE
# start as available and do not suspend, preempt or kill
START = TRUE
SUSPEND = FALSE
PREEMPT = FALSE
KILL = FALSE
# In this setup we use the config directory instead of the local config
REQUIRE_LOCAL_CONFIG_FILE = False

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- 데몬설정 : #sudo vim /etc/condor/config.d/local.conf

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DAEMON_LIST = MASTER, XXX

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. Ex> MASTER, SCHEDD

4. 방화벽 설정

- 방화벽 확인 : # sudo systemctl status firewalld.service
- TCP/UDP 9000-9999 포트 허용 :
 - # sudo firewall-cmd --permanent --add-port=9000-9999/tcp
 - # sudo firewall-cmd --permanent --add-port=9000-9999/udp
- 설정 갱신 : # sudo firewall-cmd --reload
- 설정 확인 : # sudo firewall-cmd --list-all

5. 인증

- # sudo condor_store_cred add -c -p q1w2q1w2

6. 서비스 시작

- Master Node & Submit Node & Work Node
 - #sudo systemctl start condor.service

7. 계정 생성

- Master Node & Submit Node & Work Node
 - # sudo useradd -u 2001 testuser1
 - # sudo passwd testuser1