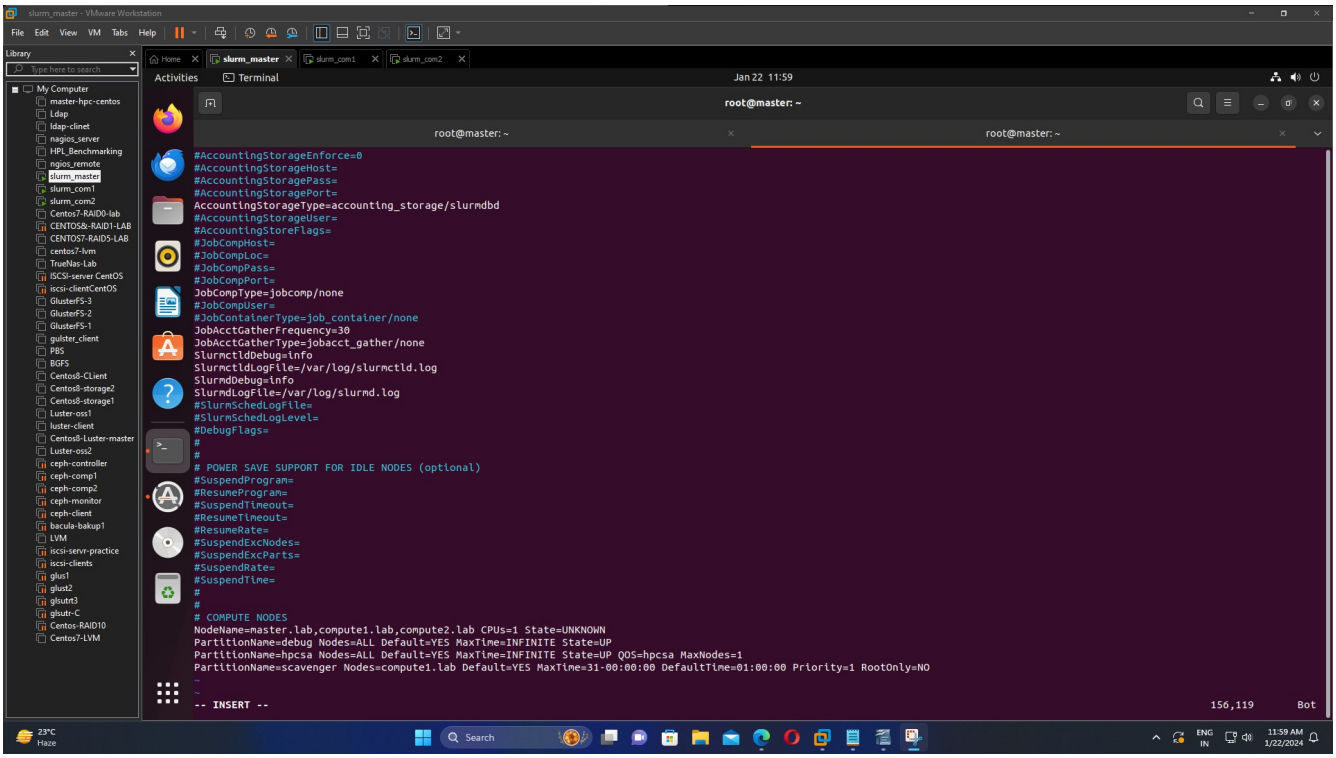
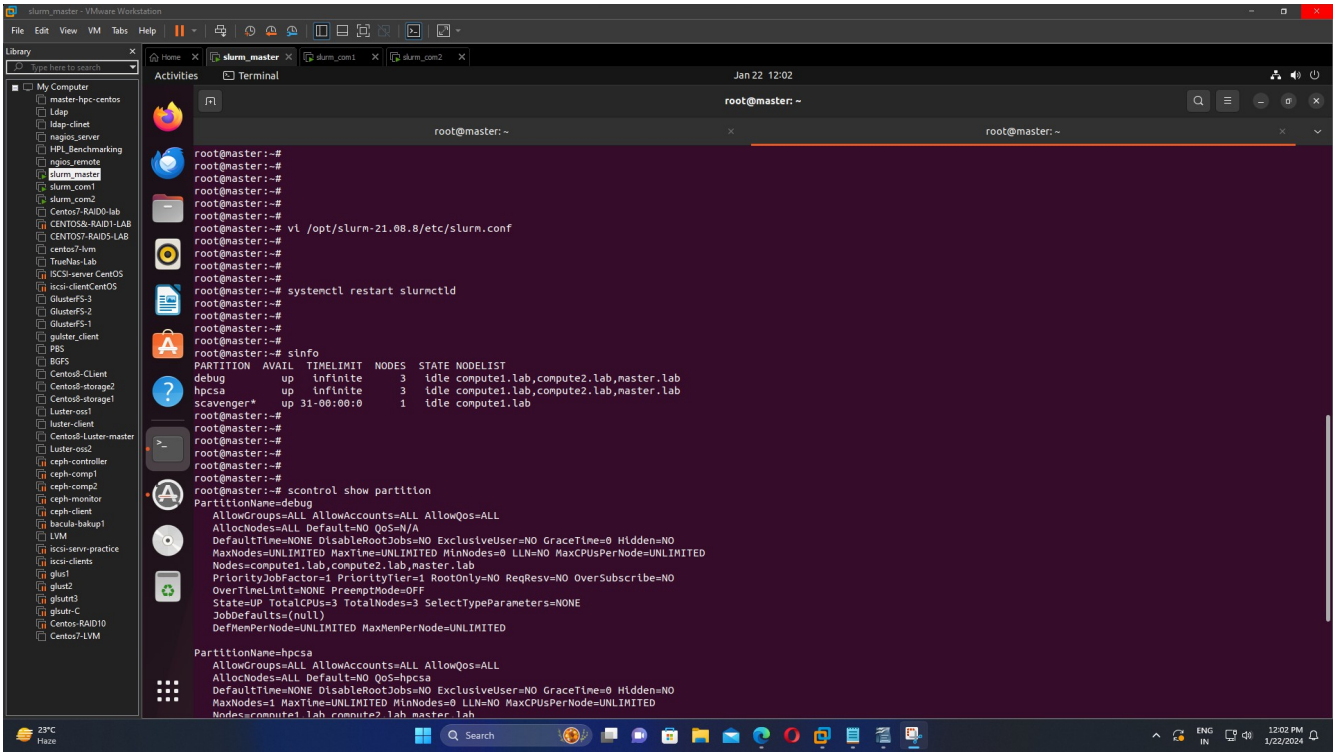
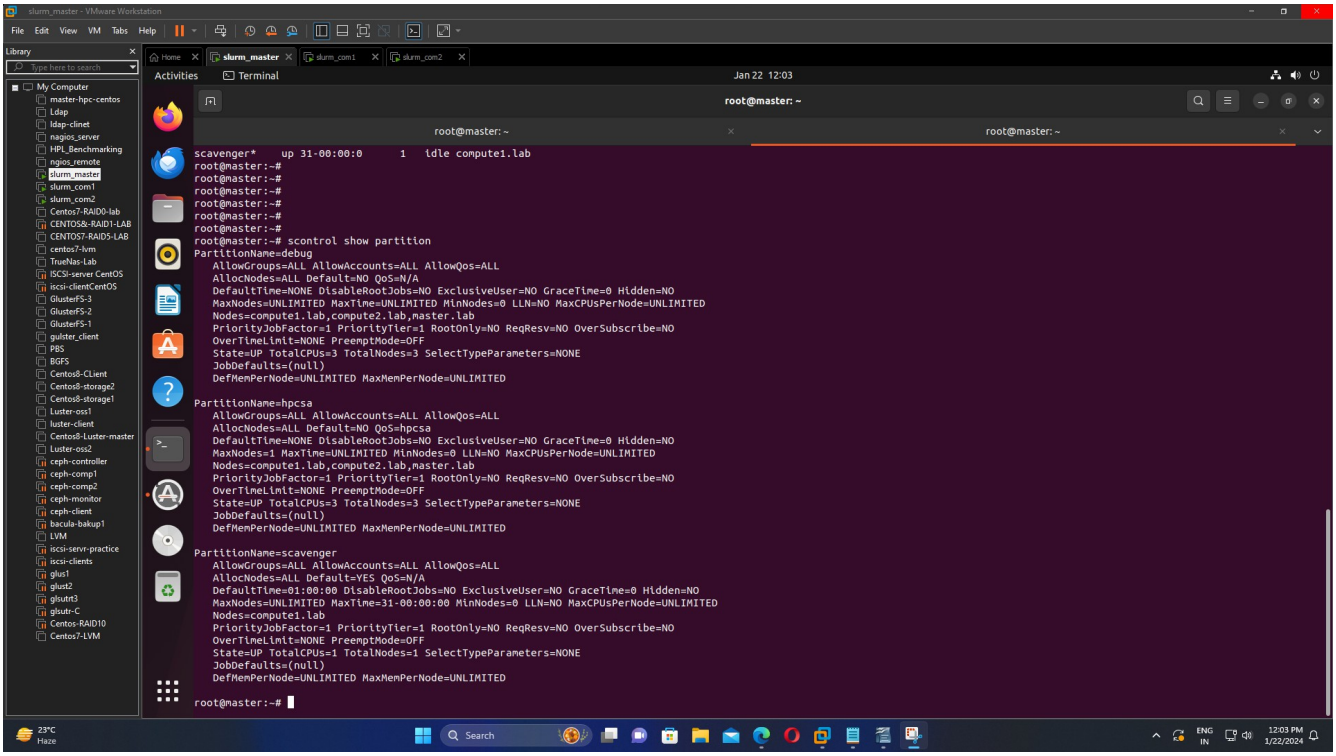
Q1.

1) Create the partition scavenger
in vi slurm.conf file



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ldap-clinet
nagios_server
HPL_Benchmarking
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slurm_com2
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CENTOS8-RAID1-LAB
CENTOS7-RAID5-LAB
centos7-lvm
TrueNas-Lab
ISCSI-server CentOS
iscsi-clientCentOS
GlusterFS-3
GlusterFS-2
GlusterFS-1
gulster_client
PBS
BGFS
Centos8-CLient
Centos8-storage2
Centos8-storage1
Luster-oss1
luster-client
Centos8-Luster-master
Luster-oss2
ceph-controller
ceph-comp1
ceph-comp2
ceph-monitor
ceph-client
bacula-bakup1
LVM
iscsi-servr-practice
iscsi-clients
glus1
glust2
glsutrt3
glsutr-C
Centos-RAID10
Centos7-LVM
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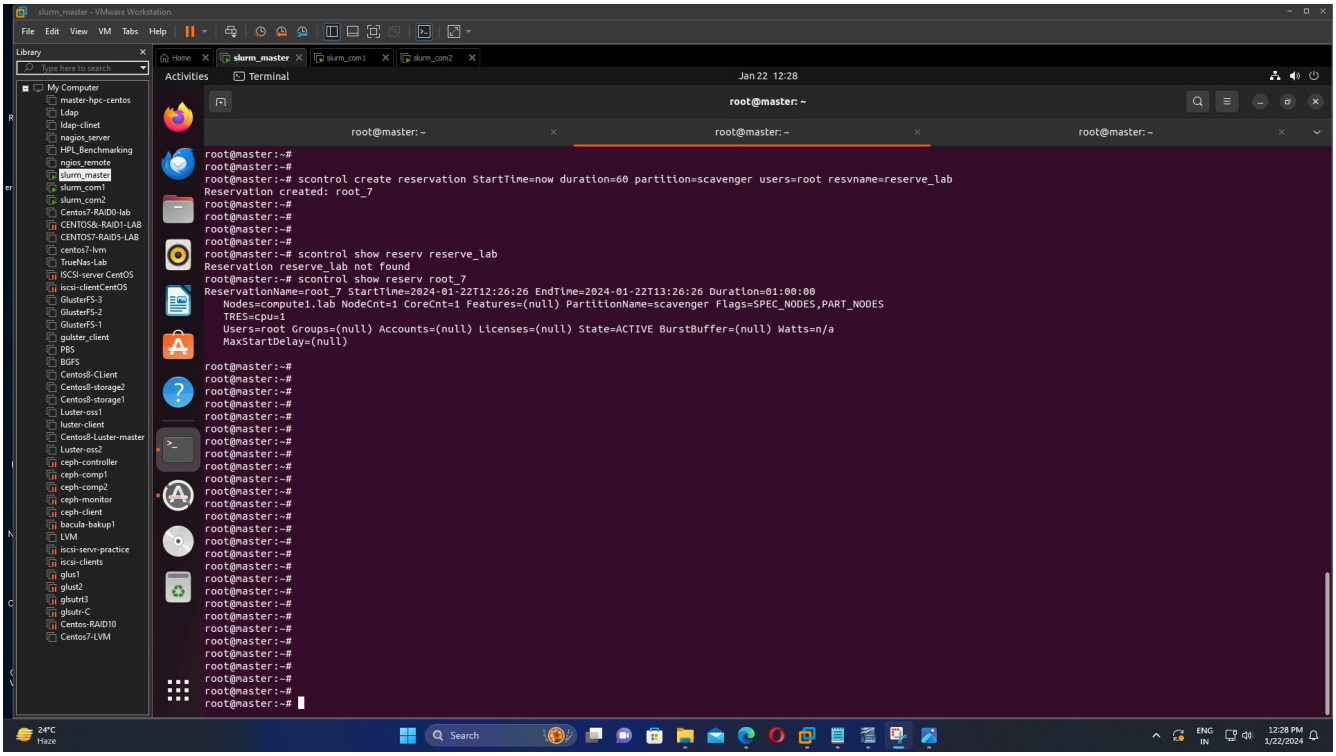
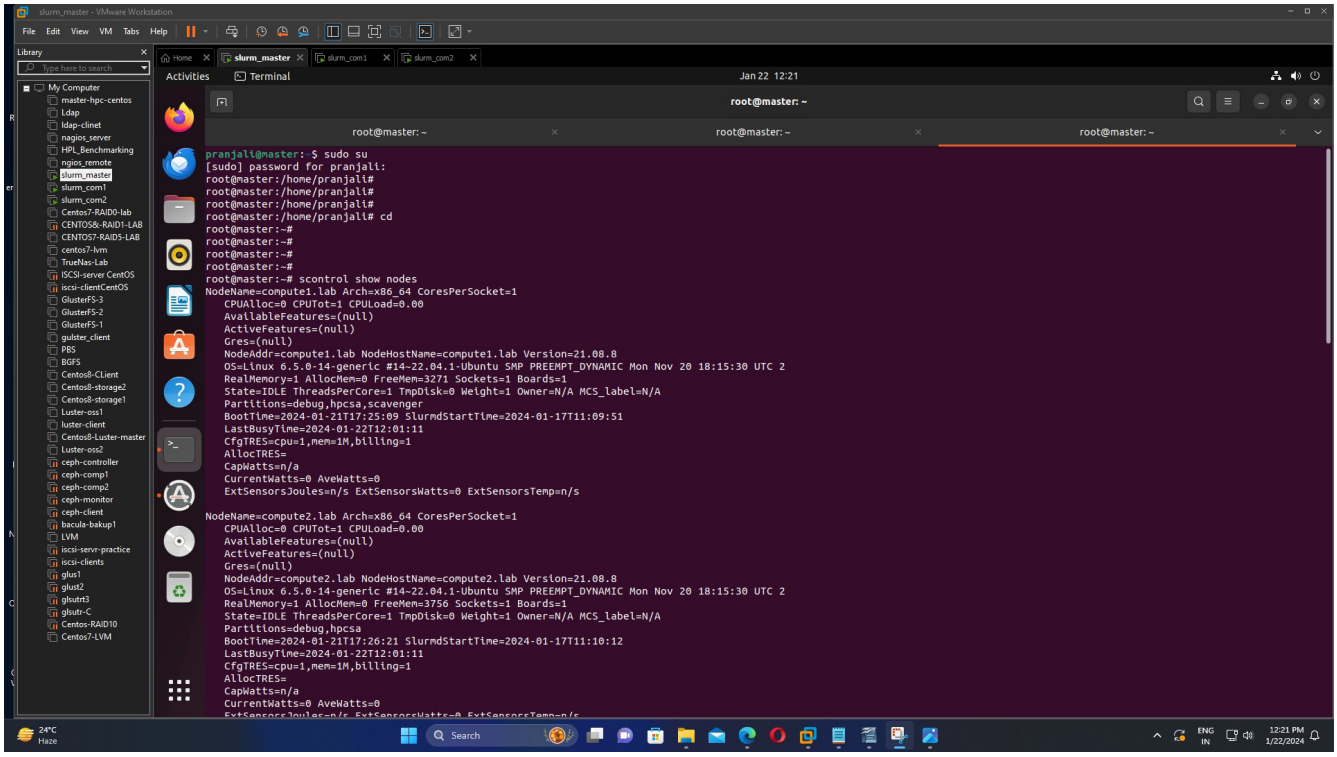
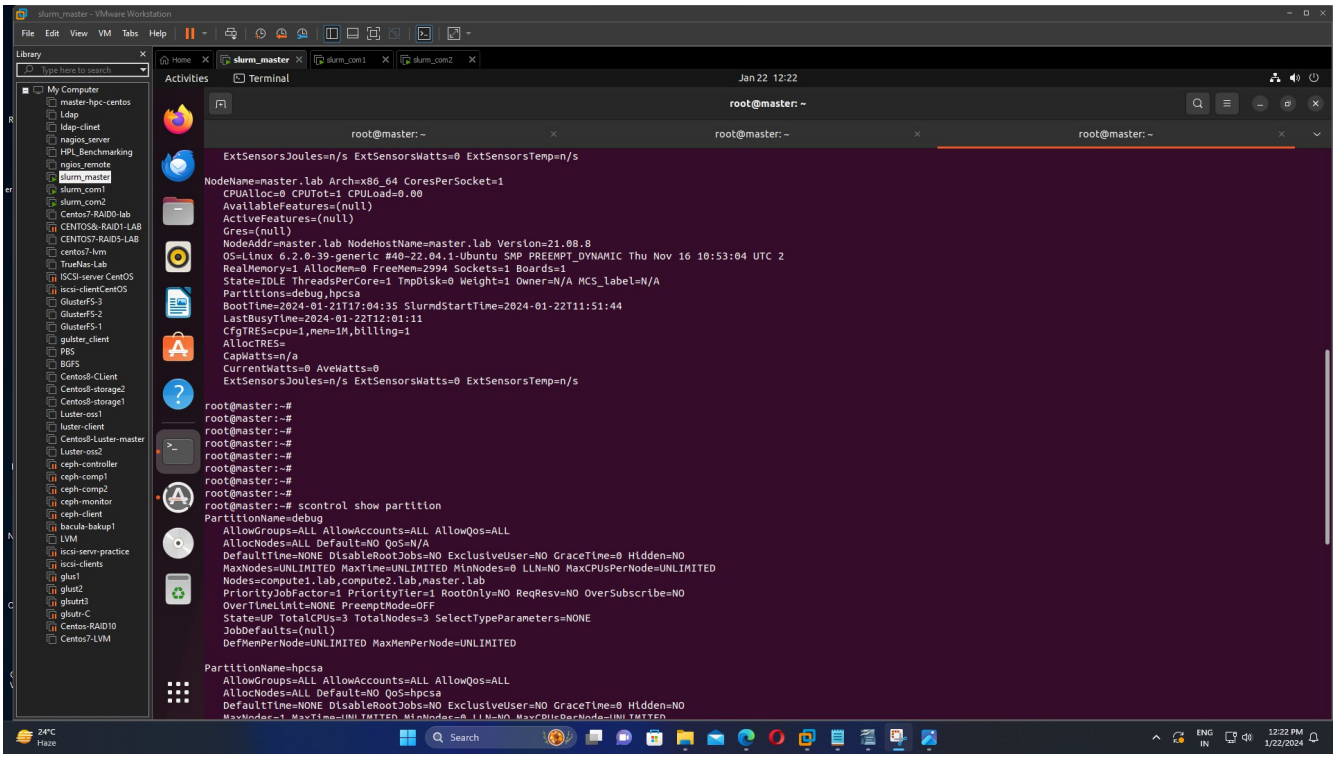
Activities
Terminal
Jan 22 12:03
root@master: ~
root@master: ~
root@master: ~
scavenger* up 31-00:00:0 1 idle compute1.lab
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# scontrol show partition
PartitionName=debug
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=NO QoS=N/A
DefaultTime=NONE DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
MaxNodes=UNLIMITED MaxTime=UNLIMITED MinNodes=0 LLN=NO MaxCPUsPerNode=UNLIMITED
Nodes=compute1.lab,compute2.lab,master.lab
PriorityJobFactor=1 PriorityTier=1 RootOnly=NO ReqResv=NO OverSubscribe=NO
OverTimeLimit=NONE PreemptMode=OFF
State=UP TotalCPUs=3 TotalNodes=3 SelectTypeParameters=NONE
JobDefaults=(null)
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
PartitionName=hpcsa
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=NO QoS=hpcsa
DefaultTime=NONE DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
MaxNodes=1 MaxTime=UNLIMITED MinNodes=0 LLN=NO MaxCPUsPerNode=UNLIMITED
Nodes=compute1.lab,compute2.lab,master.lab
PriorityJobFactor=1 PriorityTier=1 RootOnly=NO ReqResv=NO OverSubscribe=NO
OverTimeLimit=NONE PreemptMode=OFF
State=UP TotalCPUs=3 TotalNodes=3 SelectTypeParameters=NONE
JobDefaults=(null)
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
PartitionName=scavenger
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=YES QoS=N/A
DefaultTime=01:00:00 DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
MaxNodes=UNLIMITED MaxTime=31-00:00:00 MinNodes=0 LLN=NO MaxCPUsPerNode=UNLIMITED
Nodes=compute1.lab
PriorityJobFactor=1 PriorityTier=1 RootOnly=NO ReqResv=NO OverSubscribe=NO
OverTimeLimit=NONE PreemptMode=OFF
State=UP TotalCPUs=1 TotalNodes=1 SelectTypeParameters=NONE
JobDefaults=(null)
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
root@master:~#
23°C
Haze
Search
ENG
IN
12:03 PM
1/22/2024

Q2 create reservation reserve_lab using partition scavernger
scontrol create reservation StartTime=now duration=60 partition=scavenger users=root resvname=reserve_lab



Q3.
Using this commmand we see the basic node and individual partition summary info
scontrol show partitions
scontrol show nodes
Sinfo

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slurm_com2
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CENTOS&-RAID1-LAB
CENTOS7-RAID5-LAB
centos7-lvm
TrueNas-Lab
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iscsi-clientCentOS
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GlusterFS-2
GlusterFS-1
gulster_client
PBS
BGFS
Centos8-CLient
Centos8-storage2
Centos8-storage1
Luster-oss1
luster-client
Centos8-Luster-master
Luster-oss2
ceph-controller
ceph-comp1
ceph-comp2
ceph-monitor
ceph-client
bacula-bakup1
LVM
iscsi-servr-practice
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glus1
glust2
glustt3
glustr-C
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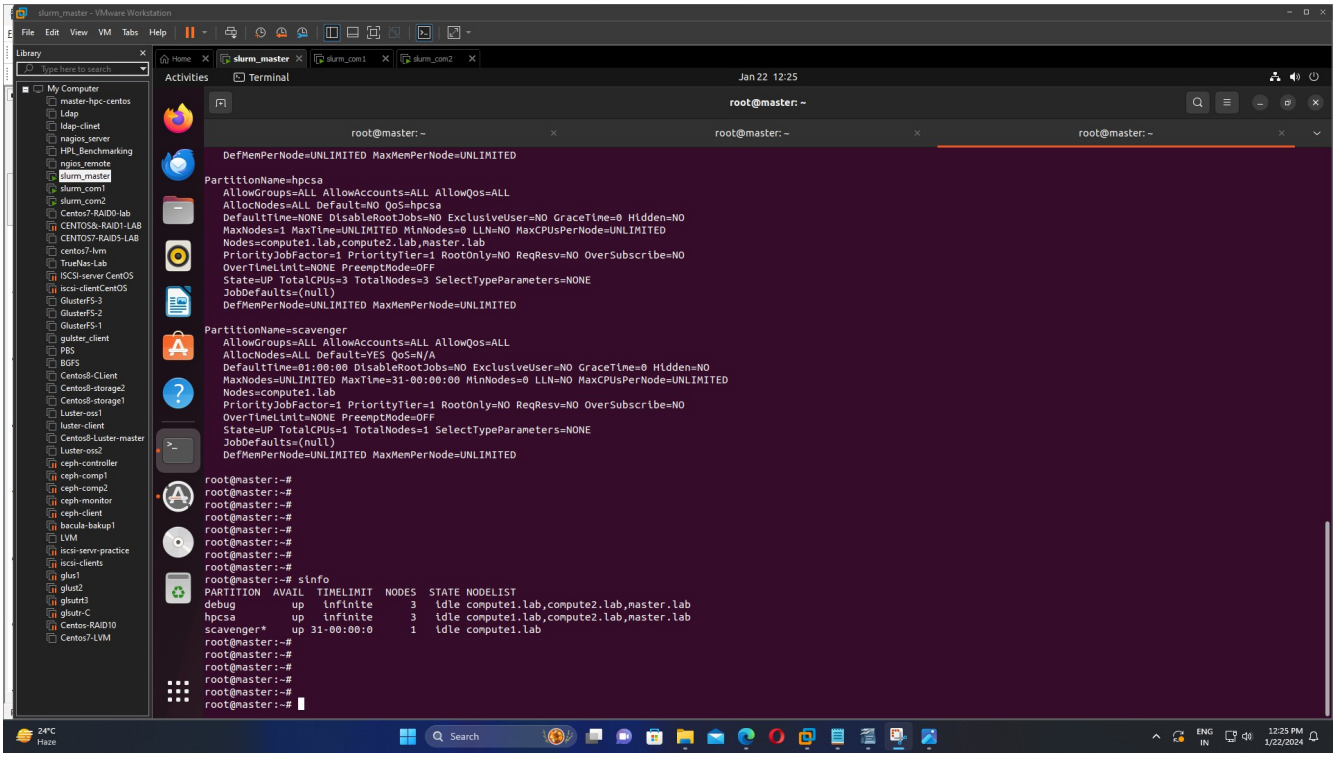
Activities
Terminal
Jan 22 12:22
root@master: ~
root@master: ~
root@master: ~
root@master: ~
ExtSensorsJoules=n/s ExtSensorsWatts=0 ExtSensorsTemp=n/s
NodeName=master.lab Arch=x86_64 CoresPerSocket=1
CPUAlloc=0 CPUTot=1 CPULoad=0.00
AvailableFeatures=(null)
ActiveFeatures=(null)
Gres=(null)
NodeAddr=master.lab NodeHostName=master.lab Version=21.08.8
OS=Linux 6.2.0-39-generic #40~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Nov 16 10:53:04 UTC 2
RealMemory=1 AllocMem=0 FreeMem=2994 Sockets=1 Boards=1
State=IDLE ThreadsPerCore=1 TmpDisk=0 Weight=1 Owner=N/A MCS_label=N/A
Partitions=debug,hpcsa
BootTime=2024-01-21T17:04:35 SlurmdStartTime=2024-01-22T11:51:44
LastBusyTime=2024-01-22T12:01:11
CfgTRES=cpu=1,mem=1M,billing=1
AllocTRES=
CapWatts=n/a
CurrentWatts=0 AveWatts=0
ExtSensorsJoules=n/s ExtSensorsWatts=0 ExtSensorsTemp=n/s
root@master:~#
root@master:~# scontrol show partition
PartitionName=debug
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=NO QoS=N/A
DefaultTime=NONE DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
MaxNodes=UNLIMITED MaxTime=UNLIMITED MinNodes=0 LLN=NO MaxCPUsPerNode=UNLIMITED
Nodes=compute1.lab,compute2.lab,master.lab
PriorityJobFactor=1 PriorityTier=1 RootOnly=NO ReqResv=NO OverSubscribe=NO
OverTimeLimit=NONE PreemptMode=OFF
State=UP TotalCPUs=3 TotalNodes=3 SelectTypeParameters=NONE
JobDefaults=(null)
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
PartitionName=hpcsa
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=NO QoS=hpcsa
DefaultTime=NONE DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
24°C
Haze
Search
ENG
IN
12:22 PM
1/22/2024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Centos7-RAID0-lab
CENTOS&-RAID1-LAB
CENTOS7-RAID5-LAB
centos7-lvm
TrueNas-Lab
ISCSI-server CentOS
iscsi-clientCentOS
GlusterFS-3
GlusterFS-2
GlusterFS-1
gulster_client
PBS
BGFS
Centos8-CLient
Centos8-storage2
Centos8-storage1
Luster-oss1
luster-client
Centos8-Luster-master
Luster-oss2
ceph-controller
ceph-comp1
ceph-comp2
ceph-monitor
ceph-client
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Centos7-LVM
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slurm_com1
slurm_com2
Activities
Terminal
Jan 22 12:25
root@master: ~
root@master: ~
root@master: ~
root@master: ~
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
PartitionName=hpcsa
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=NO QoS=hpcsa
DefaultTime=NONE DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
MaxNodes=1 MaxTime=UNLIMITED MinNodes=0 LLN=NO MaxCPUsPerNode=UNLIMITED
Nodes=compute1.lab,compute2.lab,master.lab
PriorityJobFactor=1 PriorityTier=1 RootOnly=NO ReqResv=NO OverSubscribe=NO
OverTimeLimit=NONE PreemptMode=OFF
State=UP TotalCPUs=3 TotalNodes=3 SelectTypeParameters=NONE
JobDefaults=(null)
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
PartitionName=scavenger
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=YES QoS=N/A
DefaultTime=01:00:00 DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
MaxNodes=UNLIMITED MaxTime=31-00:00:00 MinNodes=0 LLN=NO MaxCPUsPerNode=UNLIMITED
Nodes=compute1.lab
PriorityJobFactor=1 PriorityTier=1 RootOnly=NO ReqResv=NO OverSubscribe=NO
OverTimeLimit=NONE PreemptMode=OFF
State=UP TotalCPUs=1 TotalNodes=1 SelectTypeParameters=NONE
JobDefaults=(null)
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
root@master:~#
root@master:~# sinfo
PARTITION AVAIL TIMELIMIT NODES STATE NODELIST
debug up infinite 3 idle compute1.lab,compute2.lab,master.lab
hpcsa up infinite 3 idle compute1.lab,compute2.lab,master.lab
scavenger* up 31-00:00:0 1 idle compute1.lab
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
24°C
Haze
Search
ENG
IN
12:25 PM
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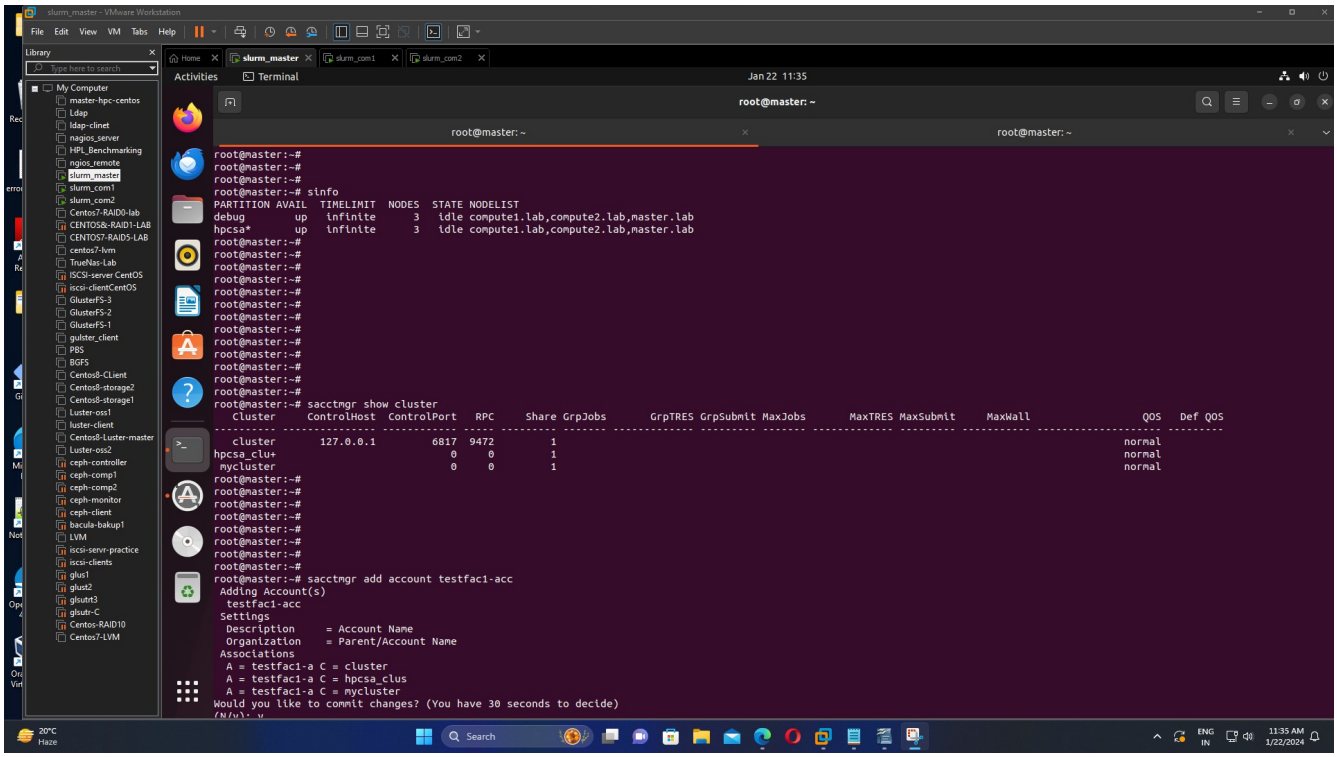
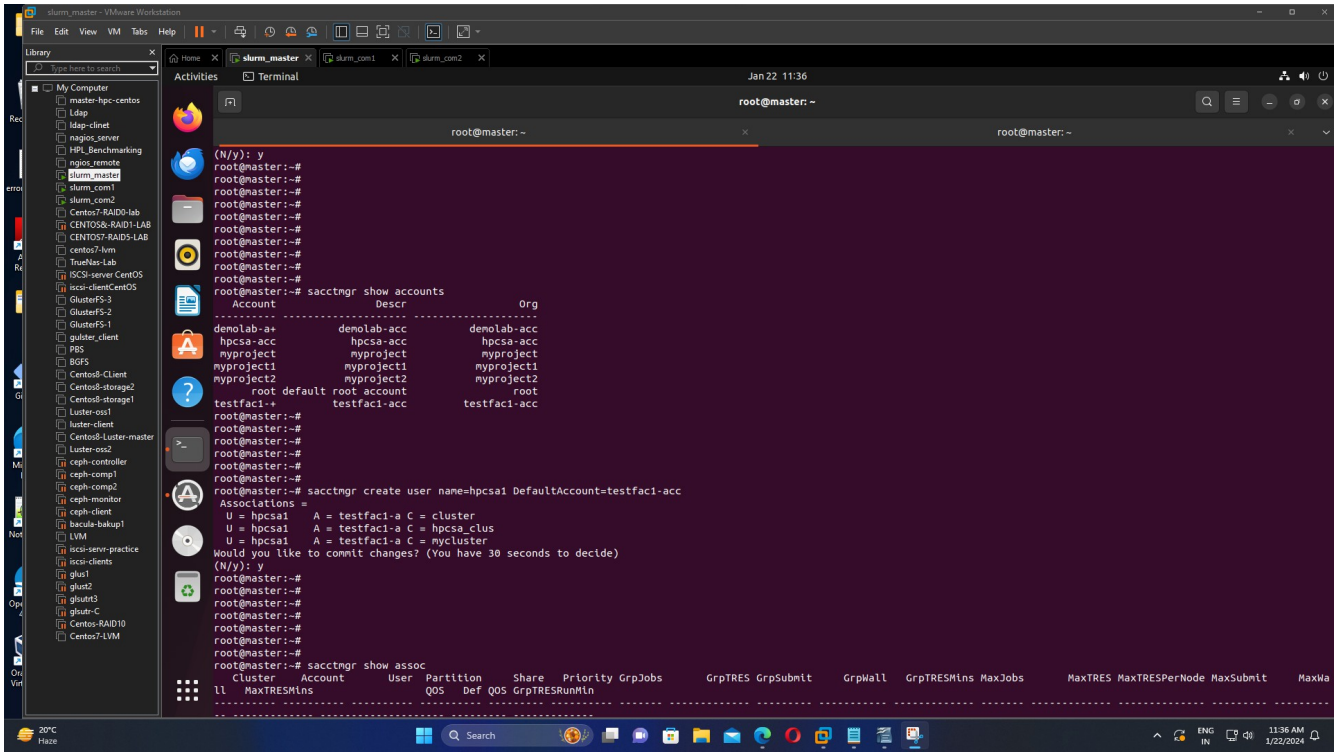
Q4.

slurm-accname= tstfac1-acc
user hpcsa1
add this user to account
and create the batch script

```
#!/bin/bash
#SBATCH --job=name=my_job1
#SBATCH --account=testfac1-acc
#SBATCH --nodes=1
#SBATCH --error=job.%J.err
#SBATCH --output=job.%J.out

echo "done"
```

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slurm_com2
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CENTOS8-RAID1-LAB
CENTOS7-RAID5-LAB
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GlusterFS-1
gulster_client
PBS
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Centos8-CLient
Centos8-storage2
Centos8-storage1
Luster-oss1
luster-client
Centos8-Luster-master
Luster-oss2
ceph-controller
ceph-comp1
ceph-comp2
ceph-monitor
ceph-client
bacula-bakup1
LVM
iscsi-servr-practice
iscsi-clients
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glust2
glsutrt3
gloutr-C
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Activities
Terminal
Jan 22 11:36
root@master: ~
root@master: ~
root@master: ~
(N/y): y
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# sacctmgr show accounts
Account Descr Org
demolab-a+ demolab-acc demolab-acc
hpcsa-acc hpcsa-acc hpcsa-acc
myproject myproject myproject
myproject1 myproject1 myproject1
myproject2 myproject2 myproject2
root default root account root
testfac1-+ testfac1-acc testfac1-acc
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# sacctmgr create user name=hpcsa1 DefaultAccount=testfac1-acc
Associations =
U = hpcsa1 A = testfac1-a C = cluster
U = hpcsa1 A = testfac1-a C = hpcsa_clus
U = hpcsa1 A = testfac1-a C = mycluster
Would you like to commit changes? (You have 30 seconds to decide)
(N/y): y
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# sacctmgr show assoc
Cluster Account User Partition Share Priority GrpJobs GrpTRES GrpSubmit GrpWall GrpTRESMins MaxJobs MaxTRES MaxTRESPerNode MaxSubmit MaxWa
ll MaxTRESMins QOS Def QOS GrpTRESRunMin
20°C
Haze
Search
ENG
IN
11:36 AM
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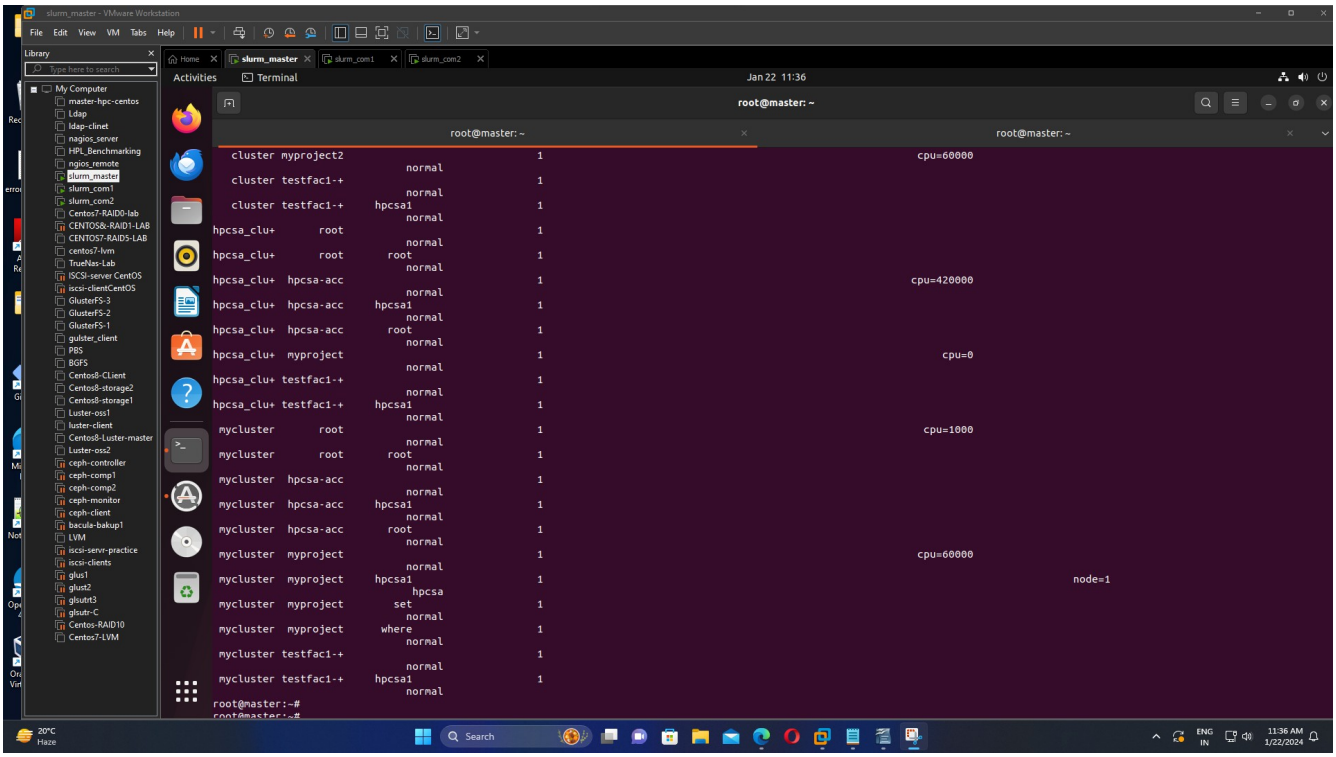
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slurm_com2
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CENTOS8-RAID1-LAB
CENTOS7-RAID5-LAB
centos7-lvm
TrueNas-Lab
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iscsi-clientCentOS
GlusterFS-3
GlusterFS-2
GlusterFS-1
gulster_client
PBS
BGFS
Centos8-CLient
Centos8-storage2
Centos8-storage1
Luster-oss1
luster-client
Centos8-Luster-master
Luster-oss2
ceph-controller
ceph-comp1
ceph-comp2
ceph-monitor
ceph-client
bacula-bakup1
LVM
iscsi-servr-practice
iscsi-clients
glus1
glust2
glsutrt3
gloutr-C
Centos-RAID10
Centos7-LVM
Home
slurm_master
slurm_com1
slurm_com2
Activities
Terminal
Jan 22 11:36
root@master: ~
root@master: ~
cluster myproject2 1 cpu=60000
normal
cluster testfac1-+ 1
normal
cluster testfac1-+ hpcsa1 1
normal
hpcsa_clu+ root 1
normal
hpcsa_clu+ root root 1
normal
hpcsa_clu+ hpcsa-acc 1 cpu=420000
normal
hpcsa_clu+ hpcsa-acc hpcsa1 1
normal
hpcsa_clu+ hpcsa-acc root 1
normal
hpcsa_clu+ myproject 1 cpu=0
normal
hpcsa_clu+ testfac1-+ 1
normal
hpcsa_clu+ testfac1-+ hpcsa1 1
normal
mycluster root 1 cpu=1000
normal
mycluster root root 1
normal
mycluster hpcsa-acc 1
normal
mycluster hpcsa-acc hpcsa1 1
normal
mycluster hpcsa-acc root 1
normal
mycluster myproject 1 cpu=60000
normal
mycluster myproject hpcsa1 1 node=1
hpcsa
mycluster myproject set 1
normal
mycluster myproject where 1
normal
mycluster testfac1-+ 1
normal
mycluster testfac1-+ hpcsa1 1
normal
root@master:~#
root@master:~#
20°C
Haze
Search
ENG
IN
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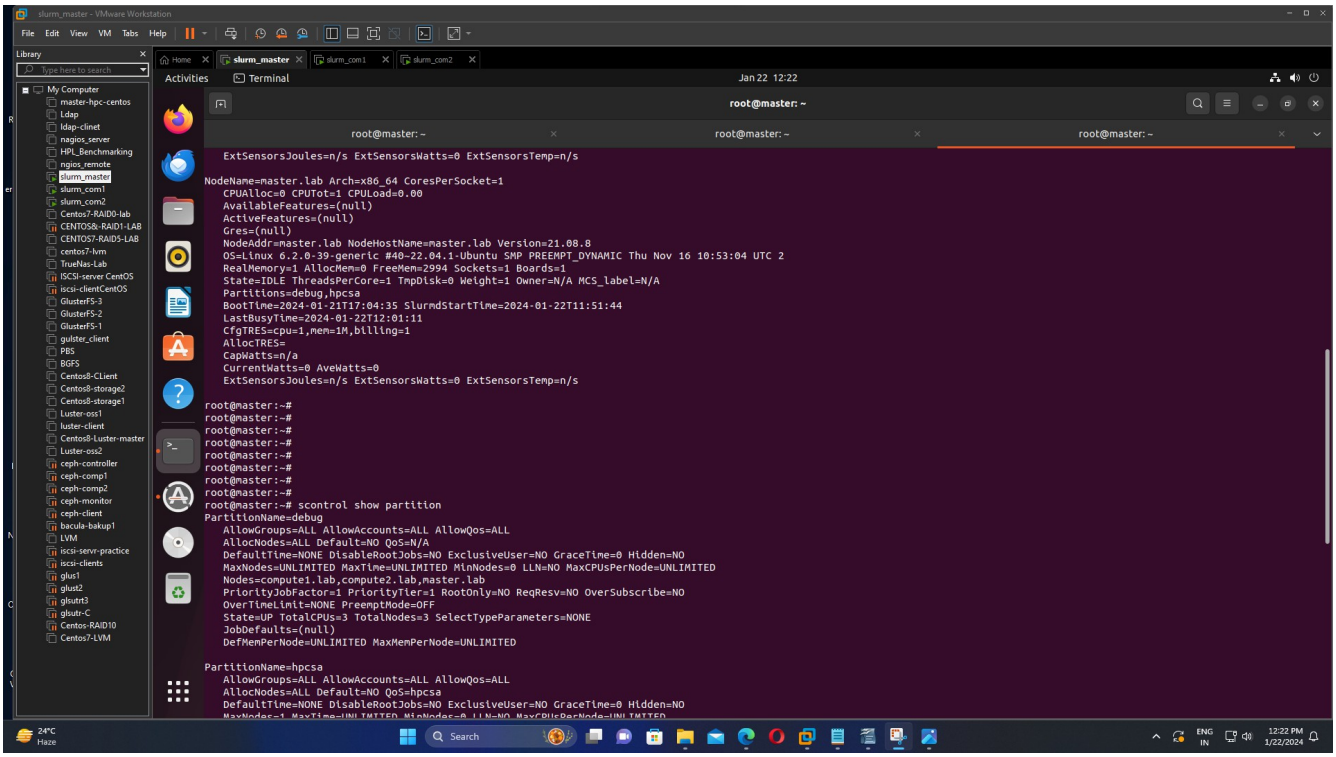
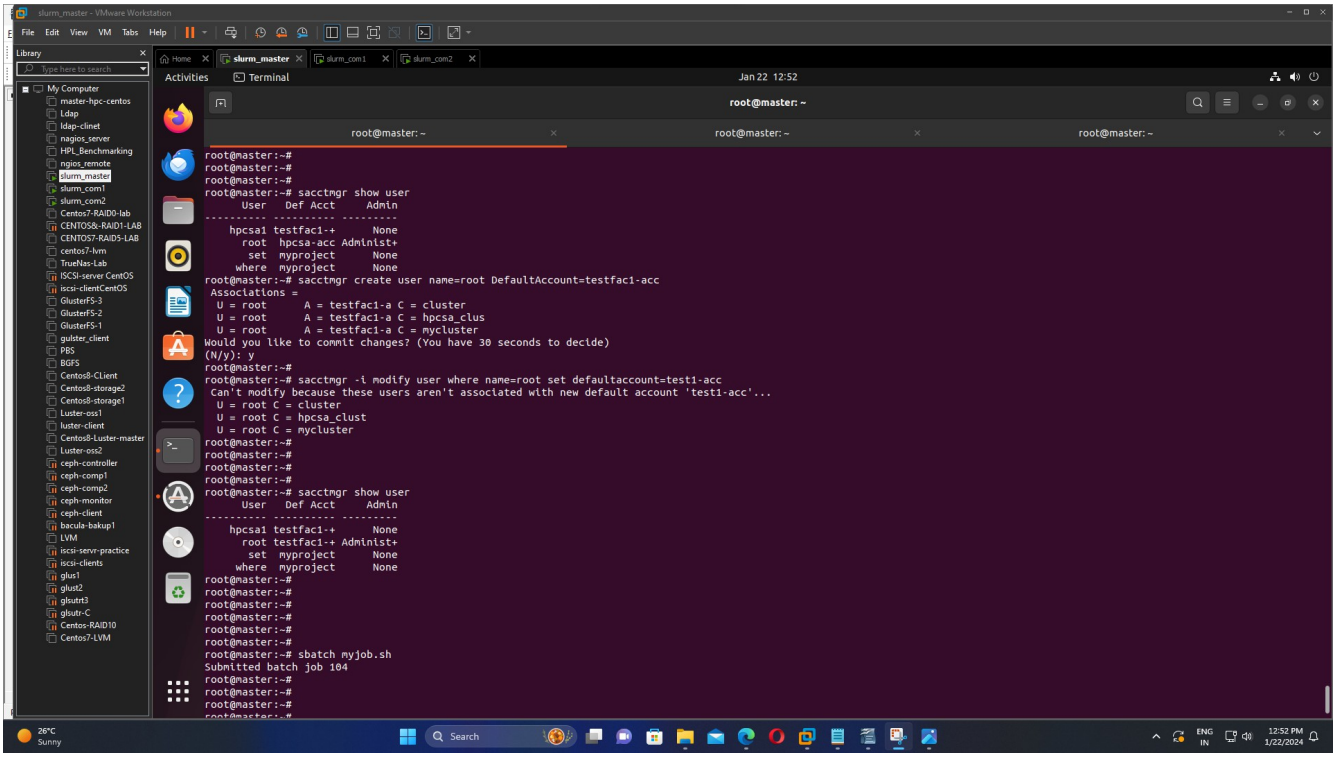

slurm_master - VMware Workstation
File Edit View VM Tabs Help
Library
Activities
Terminal
Jan 22 12:22
root@master: ~
root@master: ~
root@master: ~
root@master: ~
ExtSensorsJoules=n/s ExtSensorsWatts=0 ExtSensorsTemp=n/s
NodeName=master.lab Arch=x86_64 CoresPerSocket=1
CPUAlloc=0 CPUTot=1 CPULoad=0.00
AvailableFeatures=(null)
ActiveFeatures=(null)
Gres=(null)
NodeAddr=master.lab NodeHostName=master.lab Version=21.08.8
OS=Linux 6.2.0-39-generic #40~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Nov 16 10:53:04 UTC 2
RealMemory=1 AllocMem=0 FreeMem=2994 Sockets=1 Boards=1
State=IDLE ThreadsPerCore=1 TmpDisk=0 Weight=1 Owner=N/A MCS_label=N/A
Partitions=debug,hpcsa
BootTime=2024-01-21T17:04:35 SlurmdStartTime=2024-01-22T11:51:44
LastBusyTime=2024-01-22T12:01:11
CfgTRES=cpu=1,mem=1M,billing=1
AllocTRES=
CapWatts=n/a
CurrentWatts=0 AveWatts=0
ExtSensorsJoules=n/s ExtSensorsWatts=0 ExtSensorsTemp=n/s
root@master:~#
root@master:~# scontrol show partition
PartitionName=debug
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=NO QoS=N/A
DefaultTime=NONE DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
MaxNodes=UNLIMITED MaxTime=UNLIMITED MinNodes=0 LLN=NO MaxCPUsPerNode=UNLIMITED
Nodes=compute1.lab,compute2.lab,master.lab
PriorityJobFactor=1 PriorityTier=1 RootOnly=NO ReqResv=NO OverSubscribe=NO
OverTimeLimit=NONE PreemptMode=OFF
State=UP TotalCPUs=3 TotalNodes=3 SelectTypeParameters=NONE
JobDefaults=(null)
DefMemPerNode=UNLIMITED MaxMemPerNode=UNLIMITED
PartitionName=hpcsa
AllowGroups=ALL AllowAccounts=ALL AllowQos=ALL
AllocNodes=ALL Default=NO QoS=hpcsa
DefaultTime=NONE DisableRootJobs=NO ExclusiveUser=NO GraceTime=0 Hidden=NO
24°C
Haze
Search
ENG
IN
12:22 PM
1/22/2024


slurm_master - VMware Workstation
File Edit View VM Tabs Help
Library
Activities
Terminal
Jan 22 12:52
root@master: ~
root@master: ~
root@master: ~
root@master: ~
root@master:~#
root@master:~#
root@master:~#
root@master:~# sacctmgr show user
User Def Acct Admin
---------- ---------- ---------
hpcsa1 testfac1-+ None
root hpcsa-acc Administ+
set myproject None
where myproject None
root@master:~# sacctmgr create user name=root DefaultAccount=testfac1-acc
Associations =
U = root A = testfac1-a C = cluster
U = root A = testfac1-a C = hpcsa_clus
U = root A = testfac1-a C = mycluster
Would you like to commit changes? (You have 30 seconds to decide)
(N/y): y
root@master:~#
root@master:~# sacctmgr -i modify user where name=root set defaultaccount=test1-acc
Can't modify because these users aren't associated with new default account 'test1-acc'...
U = root C = cluster
U = root C = hpcsa_clust
U = root C = mycluster
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# sacctmgr show user
User Def Acct Admin
---------- ---------- ---------
hpcsa1 testfac1-+ None
root testfac1-+ Administ+
set myproject None
where myproject None
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# sbatch myjob.sh
Submitted batch job 104
root@master:~#
root@master:~#
root@master:~#
26°C
Sunny
Search
ENG
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12:52 PM
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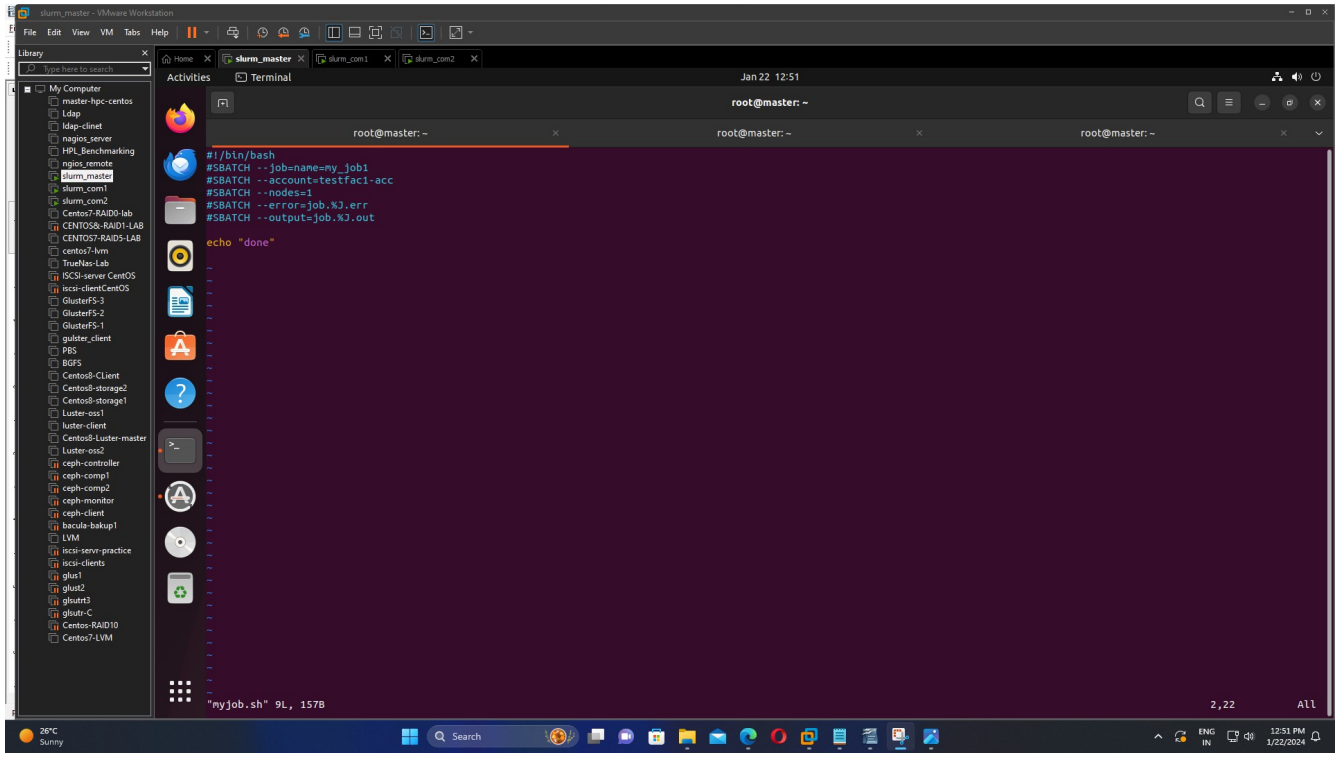
slurm_master - VMware Workstation
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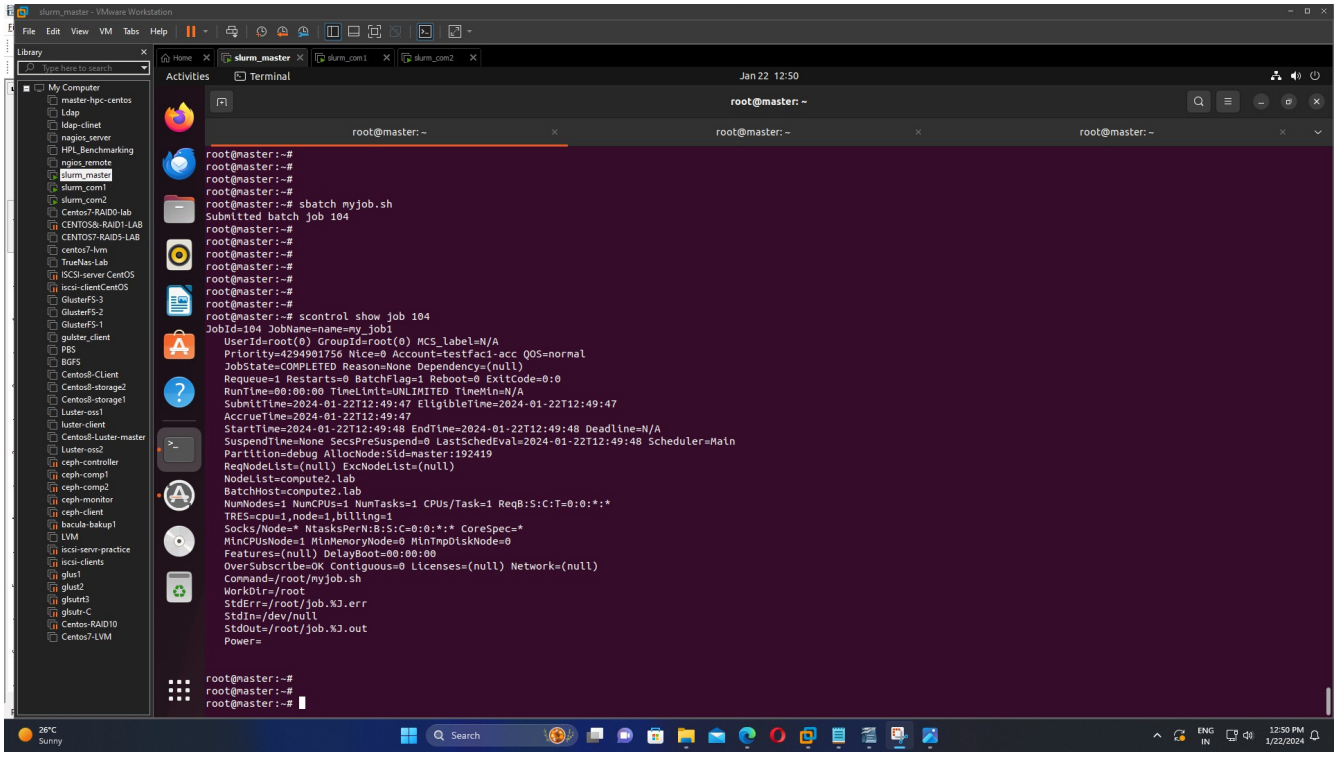
Ldap
ldap-clinet
nagios_server
HPL_Benchmarking
ngios_remote
slurm_master
slurm_com1
slurm_com2
Centos7-RAID0-lab
CENTOS8-RAID1-LAB
CENTOS7-RAID5-LAB
centos7-lvm
TrueNas-Lab
iSCSI-server CentOS
iscsi-clientCentOS
GlusterFS-3
GlusterFS-2
GlusterFS-1
gulster_client
PBS
BGFS
Centos8-CLient
Centos8-storage2
Centos8-storage1
Luster-oss1
luster-client
Centos8-Luster-master
Luster-oss2
ceph-controller
ceph-comp1
ceph-comp2
ceph-monitor
ceph-client
bacula-bakup1
LVM
iscsi-servr-practice
iscsi-clients
glus1
glust2
glsutrt3
glsutr-C
Centos-RAID10
Centos7-LVM
Home
slurm_master
slurm_com1
slurm_com2
Activities
Terminal
Jan 22 12:51
root@master: ~
root@master: ~
root@master: ~
root@master: ~
#!/bin/bash
#SBATCH --job=name=my_job1
#SBATCH --account=testfac1-acc
#SBATCH --nodes=1
#SBATCH --error=job.%J.err
#SBATCH --output=job.%J.out
echo "done"
"myjob.sh" 9L, 157B
2,22
All
26°C
Sunny
Search
ENG
IN
12:51 PM
1/22/2024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glsutr-C
Centos-RAID10
Centos7-LVM
Home
slurm_master
slurm_com1
slurm_com2
Activities
Terminal
Jan 22 12:50
root@master: ~
root@master: ~
root@master: ~
root@master: ~
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# sbatch myjob.sh
Submitted batch job 104
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~#
root@master:~# scontrol show job 104
JobId=104 JobName=name=my_job1
UserId=root(0) GroupId=root(0) MCS_label=N/A
Priority=4294901756 Nice=0 Account=testfac1-acc QOS=normal
JobState=COMPLETED Reason=None Dependency=(null)
Requeue=1 Restarts=0 BatchFlag=1 Reboot=0 ExitCode=0:0
RunTime=00:00:00 TimeLimit=UNLIMITED TimeMin=N/A
SubmitTime=2024-01-22T12:49:47 EligibleTime=2024-01-22T12:49:47
AccrueTime=2024-01-22T12:49:47
StartTime=2024-01-22T12:49:48 EndTime=2024-01-22T12:49:48 Deadline=N/A
SuspendTime=None SecsPreSuspend=0 LastSchedEval=2024-01-22T12:49:48 Scheduler=Main
Partition=debug AllocNode:Sid=master:192419
ReqNodeList=(null) ExcNodeList=(null)
NodeList=compute2.lab
BatchHost=compute2.lab
NumNodes=1 NumCPUs=1 NumTasks=1 CPUs/Task=1 ReqB:S:C:T=0:0:*:*
TRES=cpu=1,node=1,billing=1
Socks/Node=* NtasksPerN:B:S:C=0:0:*:* CoreSpec=*
MinCPUsNode=1 MinMemoryNode=0 MinTmpDiskNode=0
Features=(null) DelayBoot=00:00:00
OverSubscribe=OK Contiguous=0 Licenses=(null) Network=(null)
Command=/root/myjob.sh
WorkDir=/root
StdErr=/root/job.%J.err
StdIn=/dev/null
StdOut=/root/job.%J.out
Power=
root@master:~#
root@master:~#
root@master:~#
26°C
Sunny
Search
ENG
IN
12:50 PM
1/22/2024