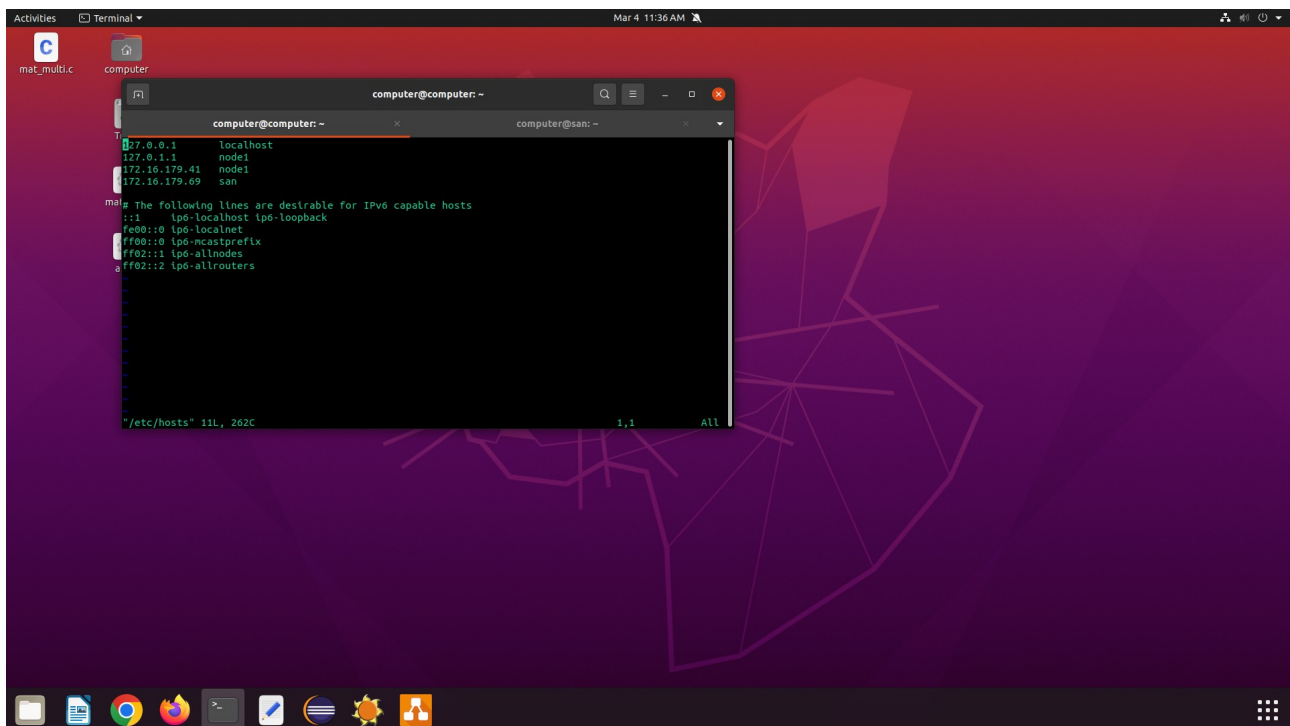


HPC Experiment 5

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Panel F

Commands to run:

```
> sudo hostname [your hostname]
> sudo rm ~/.ssh/*
> ssh-keygen
> echo "[Node 2 IP_ADDR] [Node 2 hostname]" | sudo cat >> /etc/hosts
> ssh-copy-id [Node 2 hostname]
> ssh [Node 2 hostname]
```



The screenshot shows a terminal window on a Linux desktop. The terminal output includes the following commands and their results:

```
computer@computer: ~
computer@computer: ~
127.0.0.1    localhost
127.0.1.1    node1
172.16.179.41 node1
172.16.179.69 san

The following lines are desirable for IPv6 capable hosts
::1        ip6-localhost ip6-loopback
fe80::     ip6-localnet
ff00::     ip6-mcastprefix
ff02::1    ip6-allnodes
ff02::2    ip6-allrouters

"/etc/hosts" 11L, 262C
```

The terminal window has a title bar that reads "computer@computer: ~". The desktop background is a dark purple/red gradient with a geometric pattern. The system clock in the top right corner shows "Mar 4 11:36 AM".

```
Activities Terminal Mar 4 11:40 AM
computer@node1: ~/ssh

computer@computer: ~
(base) computer@node1:~/ssh$ cat known_hosts
[[i]+H4GdKMDfEeIPZtbv3LJHJo/PS=]N1SPFKRCNnmCKFFL3y3239gMH+c= ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBGQg/0QeGBJHY9NgHxbnuDTTXMeZdggY5YwQxQbFa1kDFZMrrqr/8gVcRmpD9qnb7Jt4u1Pq1lw434
KfpZur30M=
[[i]t0bEJUztIDB/yLzekNgY+r38EBE=]bCGGeU+e812P+/LJECdQvAVVHP= ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBGQg/0QeGBJHY9NgHxbnuDTTXMeZdggY5YwQxQbFa1kDFZMrrqr/8gVcRmpD9qnb7Jt4u1Pq1lw434
KfpZur30M=
(base) computer@node1:~/ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDsThG0Sg+vJm3XRxsBheuwQySut0FBI0SpLH1Vt73XZiHaCKDB8468Y5V83TCz7B3JWfNdy9Q5VTeq9x9SVmGh2HMc9FFlh74+CQ8sHsY3PwELcXeuGdaK0jTUL1+wG01lqovdPq8oJUJhTsrJ28e0EbRtwuQTxE/sE1jeBQ01
++PzQL59u0y1lo4v52PPZVS7vH0UfY7a0B58Tlnt8KjP8jleP29mewa/xnZB8lsZHSroQgnaesVqW7fTXb5/TXmetwN1X3KCa0GubnD06rjcl5Qp81CwenYdn10fhqfZLthyfdK0FFr0KGSqY91H85sody3j0IKVDIU8+ptGU4hXLBH/ZLbfZXY+S-/H10BP1KH1RwoxC4EcI
099pF6R08h18tawqALP1xv55jWdDpvevpg1YX0zZHNIN9z4CKDkrLHPtjDQq0lrnGwcw17W75R0JrYQxewuW9535zlkArvqvX991psk7ZdEt0uq21EE79zqlnu8= computer@san
(base) computer@node1:~/ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDsThG0Sg+vJm3XRxsBheuwQySut0FBI0SpLH1Vt73XZiHaCKDB8468Y5V83TCz7B3JWfNdy9Q5VTeq9x9SVmGh2HMc9FFlh74+CQ8sHsY3PwELcXeuGdaK0jTUL1+wG01lqovdPq8oJUJhTsrJ28e0EbRtwuQTxE/sE1jeBQ01
0/9KY1/fqPqwbJd1Sk0aTFBRREYzr3Q0DnThp7VZr7F9qQRIxKW0E/37qannshJ4t0kko+khryQXNPAN0MpeSsyFNeF1hNnmvVxjBaktZcunoKUYWYJC/X6WGCzW1Edr8QUAVN7XR870mkdbZ8BdsDU7SP7FGccahqncsk3P2nk0azITpJwntL6K8q08JnaLY/RJRP56L0xYUDZ
Wor0D05Z1/hv8KEqyhtKASZYbCalfZ4Q5gKf5N25cw3xVgzFFRmpApArg8E4qWZ3boEwhLYMGkakZggU/G7ybyhtc1LABLXmBkpgbCCKLsU1QVZcsEcLB0ck= computer@node1
(base) computer@node1:~/ssh$
```

```
Activities Terminal Mar 4 11:36 AM
mat_multic computer

computer@computer: ~
computer@san: ~

(base) computer@node1:~/ssh-copy-id san
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
mat: /usr/bin/ssh-copy-id: WARNING: All keys were skipped because they already exist on the remote system
(If you think this is a mistake, you may want to use -f option)
(base) computer@node1:~/ssh-copy-id$ ssh san
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-71-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

1 device has a firmware upgrade available.
Run 'fwupdgr get-updates' for more information.

Expanded Security Maintenance for Applications is not enabled.

339 updates can be applied immediately.
266 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
```

