Practice_user1.md 01/10/2021

LAB TIME

Try Try Try ... Success

1. From control, open an SSH session to servera as student

```
[student@control ~]$ ssh student@servera
...output omitted...
[student@servera ~]$
```

2. On servera, switch to root using sudo, inheriting the full environment of the root user.

```
[student@servera ~]$ sudo su -
[sudo] password for student: student
[root@servera ~]#
```

3. Create the operators supplementary group with the GID of 30000.

```
[root@servera ~]# groupadd -g 30000 operators
```

4. Create admin as an additional supplementary group.

[root@servera ~]# groupadd admin

5. Verify that both the operators and admin supplementary groups exist.

```
[root@servera ~]# tail /etc/group
...output omitted...
operators:x:30000:
admin:x:30001:
```

- 6. Ensure that the users operator1, operator2 and operator3 belong to the group operators.
 - 6.1. Add operator1, operator2, and operator3 to operators.

```
[root@servera ~]# usermod -aG operators operator1
[root@servera ~]# usermod -aG operators operator2
[root@servera ~]# usermod -aG operators operator3
```

6.2. Confirm that the users are successfully added to the group.

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```
[root@servera ~]# id operator1
uid=1001(operator1) gid=1001(operator1)
groups=1001(operator1),30000(operators)
[root@servera ~]# id operator2
uid=1002(operator2) gid=1002(operator2)
groups=1002(operator2),30000(operators)
[root@servera ~]# id operator3
uid=1003(operator3) gid=1003(operator3)
groups=1003(operator3),30000(operators)
```

- 7. Ensure that the users sysadmin1, sysadmin2 and sysadmin3 belong to the group admin. Enable administrative rights for all the group members of admin. Verify that any member of admin can run administrative commands.
 - 7.1. Add sysadmin1, sysadmin2, and sysadmin3 to admin.

```
[root@servera ~]# usermod -aG admin sysadmin1
[root@servera ~]# usermod -aG admin sysadmin2
[root@servera ~]# usermod -aG admin sysadmin3
```

7.2. Confirm that the users are successfully added to the group.

```
[root@servera ~]# id sysadmin1
uid=1004(sysadmin1) gid=1004(sysadmin1)
groups=1004(sysadmin1),30001(admin)
[root@servera ~]# id sysadmin2
uid=1005(sysadmin2) gid=1005(sysadmin2)
groups=1005(sysadmin2),30001(admin)
[root@servera ~]# id sysadmin3
uid=1006(sysadmin3) gid=1006(sysadmin3)
groups=1006(sysadmin3),30001(admin)
```

7.3. Examine /etc/group to verify the supplemental group memberships.

```
[root@servera ~]# tail /etc/group
...output omitted...
operators:x:30000:operator1,operator2,operator3
admin:x:30001:sysadmin1,sysadmin2,sysadmin3
```

7.4. Create the /etc/sudoers.d/admin file such that the members of admin have full administrative privileges.

```
[root@servera ~]# echo "%admin ALL=(ALL) ALL" >> /etc/sudoers.d/admin
```

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7.5. Switch to sysadmin1 (a member of admin) and verify that you can run a sudo command as sysadmin1.

```
[root@servera ~]# su - sysadmin1
[sysadmin1@servera ~]$ sudo cat /etc/sudoers.d/admin
[sudo] password for sysadmin1:redhat
%admin ALL=(ALL) ALL
```

7.6. Exit the sysadmin1 user's shell to return to the root user's shell.

```
[sysadmin1@servera ~]$ exit
logout
[root@servera ~]#
```

7.7. Exit the root user's shell to return to the student user's shell.

```
[root@servera ~]# exit
logout
[student@servera ~]$
```

7.8. Log off from servera.

```
[student@servera ~]$ exit
logout
```

Connection to servera closed.

Finish