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Assignment of Linux

Problem:

User root has created a file "secret" with below permission which must not be opened by anyone except root and another user "deepak", how can this be done?

Objective:

Give access to Deepak using concept of Access control list which tracks the permissions given to users. More specifically I used “setfacl” command.

Steps/Methodology:

1)Create a file secret

2)Set root user as the owner

3)Now the root user can modify the Access control list so we modify the permissions for the file.

4)To grant access to Deepak I used the command:

**setfacl -m u:deepak:rwx secret**

Script code:

echo "Creating 'secret' file..."

touch secret

echo "Setting owner to root..."

chown root:root secret

echo "Setting file permissions to 700 (only root access)..."

chmod 700 secret

echo "Granting rwx access to user deepak..."

setfacl -m u:deepak:rwx secret

echo -e "\nFinal permissions and ACLs on 'secret':"

ls -l secret

getfacl secret

**Please find the attached shellscript file “assignment.sh”**