

# Permissões de documentos no Linux

## Descrição do projeto

Fui designado para realizar uma auditoria nas permissões existentes no sistema de arquivos. Meu objetivo é verificar se as permissões atualmente configuradas estão alinhadas com as autorizações que cada usuário ou grupo de usuários deveria ter. Isso inclui garantir que os membros da equipe de pesquisa tenham acesso apenas aos arquivos e diretórios necessários para suas atividades, seguindo o princípio do menor privilégio.

## Verifique os detalhes do arquivo e do diretório

- ls
  - Exibe os nomes de arquivos e diretórios atual
- ls -l
  - Exibe permissões para um arquivo ou diretório
- ls -a
  - Exibe os arquivos ocultos
- ls -la
  - Exibe as permissões para arquivo ou diretório e exibe os arquivos ocultos

## Descreva a sequência de permissões

```
researcher2@cbedbf4c3bf9:~$ ls
projects
researcher2@cbedbf4c3bf9:~$ ls -l projects
total 20
drwx--x--- 2 researcher2 research_team 4096 Mar 20 14:03 drafts
-rw-rw-rw- 1 researcher2 research_team  46 Mar 20 14:03 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Mar 20 14:03 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_t.txt
```

- project\_k.txt
  1. User = read, write,
  2. Group = read, write
  3. Other = read, write
- project\_m.txt
  1. User = read, write
  2. Group = read
  3. Other = none
- project\_r.txt
  1. User= read, write

2. Group = read, write
3. Other = read

#### ● project\_t.txt

1. User = read, write
2. Group = read, write
3. Other = read

#### ● Permissão dos arquivos + arquivos ocultos

```
researcher2@cbedbf4c3bf9:~$ ls -la projects
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:03 .
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:25 ..
-rw--w---- 1 researcher2 research_team  46 Mar 20 14:03 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Mar 20 14:03 drafts
-rw-rw-rw- 1 researcher2 research_team  46 Mar 20 14:03 project_k.txt
-rw-r----- 1 researcher2 research_team  46 Mar 20 14:03 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_t.txt
researcher2@cbedbf4c3bf9:~$
```

#### Alterar permissões de arquivo

##### ● chmod

- **Exemplo:** Altera as permissões dos arquivos e diretórios

**Chmod** (comando) **g+w** (adicionar permissão de gravação para proprietário) + **nome do arquivo ou diretório**

Alterando a permissão do project\_k.txt-retirando a permissão de gravação “w” de outros

```
researcher2@cbedbf4c3bf9:~$ cd projects
researcher2@cbedbf4c3bf9:~/projects$ ls
drafts project_k.txt project_m.txt project_r.txt project_t.txt
researcher2@cbedbf4c3bf9:~/projects$ ls -l
total 20
drwx--x--- 2 researcher2 research_team 4096 Mar 20 14:03 drafts
-rw-rw-rw- 1 researcher2 research_team  46 Mar 20 14:03 project_k.
-rw-r----- 1 researcher2 research_team  46 Mar 20 14:03 project_m.
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_r.
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_t.
researcher2@cbedbf4c3bf9:~/projects$ chmod o-w project_k.txt
researcher2@cbedbf4c3bf9:~/projects$ ls -l
total 20
drwx--x--- 2 researcher2 research_team 4096 Mar 20 14:03 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_k.
-rw-r----- 1 researcher2 research_team  46 Mar 20 14:03 project_m.
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_r.
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_t.
```

Alterar permissões de arquivo em um arquivo oculto

Alterando as permissões do .project\_x.txt (arquivo oculto) - retirando a permissão de gravação “w” de usuário e grupo e adicionando leitor “r” para grupo.

```
ls: cannot access 'projects': No such file or directory
researcher2@cbedbf4c3bf9:~/projects$ ls -la
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:03 .
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:25 ..
-r---w---- 1 researcher2 research_team  46 Mar 20 14:03 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Mar 20 14:03 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_k.txt
-rw----- 1 researcher2 research_team  46 Mar 20 14:03 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_t.txt
researcher2@cbedbf4c3bf9:~/projects$ chmod u-w .project_x.txt
researcher2@cbedbf4c3bf9:~/projects$ chmod g-w .project_x.txt
researcher2@cbedbf4c3bf9:~/projects$ ls -la
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:03 .
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:25 ..
-r----- 1 researcher2 research_team  46 Mar 20 14:03 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Mar 20 14:03 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_k.txt
-rw----- 1 researcher2 research_team  46 Mar 20 14:03 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_t.txt
researcher2@cbedbf4c3bf9:~/projects$ chmod g+r .project_x.txt
researcher2@cbedbf4c3bf9:~/projects$ ls -la
total 32
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:03 .
drwxr-xr-x 3 researcher2 research_team 4096 Mar 20 14:25 ..
-r--r----- 1 researcher2 research_team  46 Mar 20 14:03 .project_x.txt
drwx--x--- 2 researcher2 research_team 4096 Mar 20 14:03 drafts
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_k.txt
-rw----- 1 researcher2 research_team  46 Mar 20 14:03 project_m.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_r.txt
-rw-rw-r-- 1 researcher2 research_team  46 Mar 20 14:03 project_t.txt
```

## Resumo

A auditoria permitiu identificar e ajustar as permissões dos arquivos e diretórios, garantindo que os usuários e grupos tenham apenas as permissões necessárias para

realizar suas atividades. As alterações realizadas seguem o princípio do menor privilégio, aumentando a segurança do sistema e reduzindo o risco de acesso não autorizado a arquivos sensíveis.