

## **Лабораторная работа № 2**

**Тема Дискреционное разграничение прав в Linux. Основные атрибуты**

**Абд эль хай мохамад**

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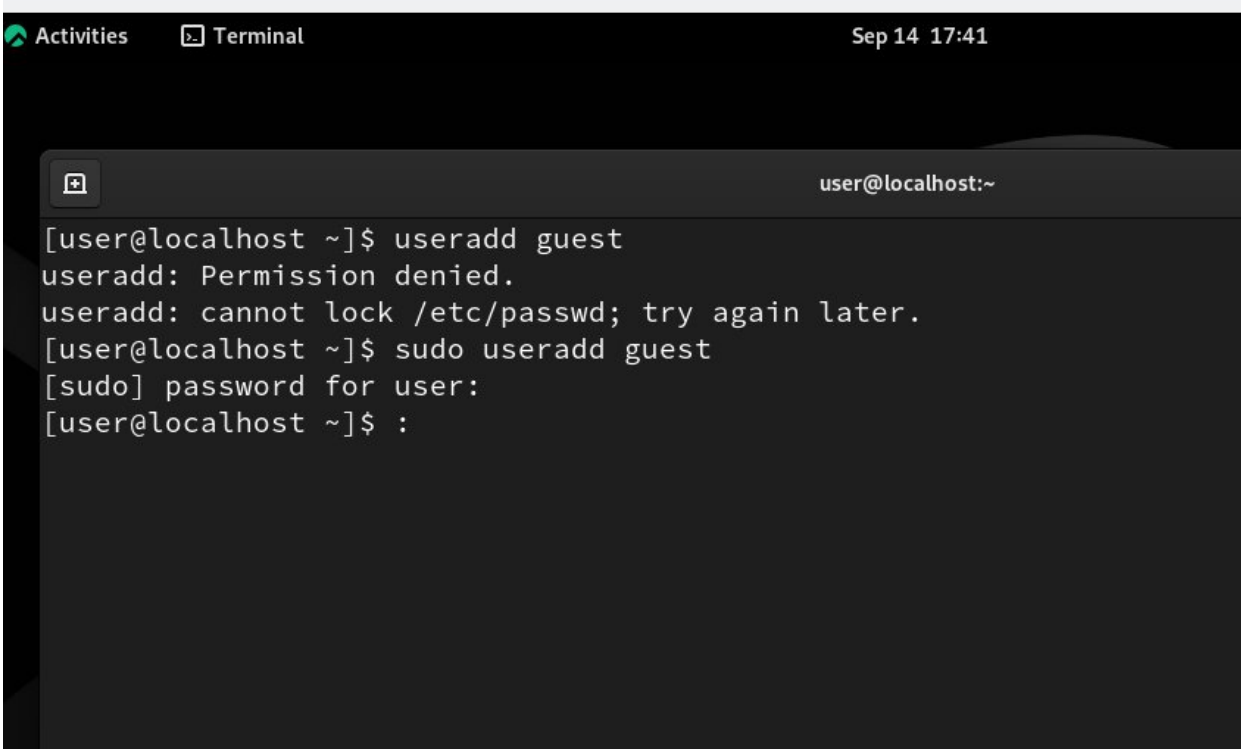
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## ***1 . Цель работы***

Получение практических навыков работы в консоли с атрибутами файлов, закрепление теоретических основ дискреционного разграничения доступа в современных системах с открытым кодом на базе ОС Linux1.

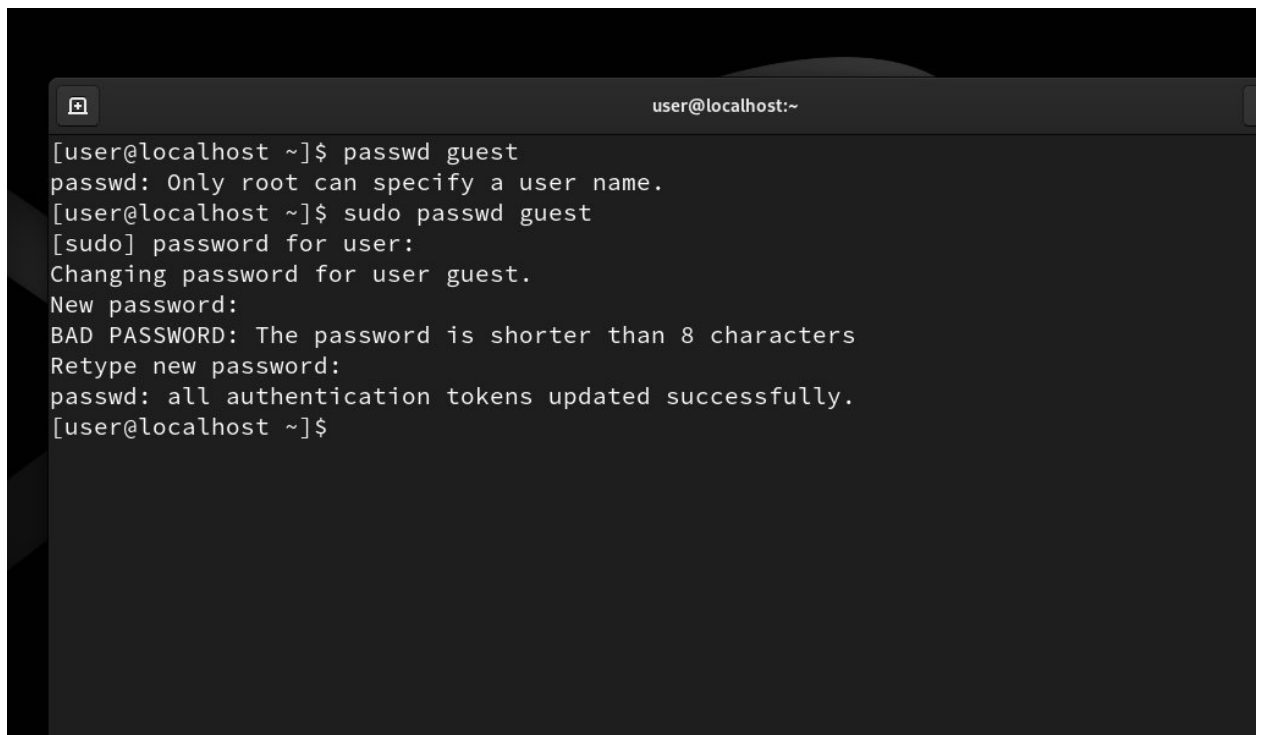
## ***2 . Выполнение лабораторной работы***



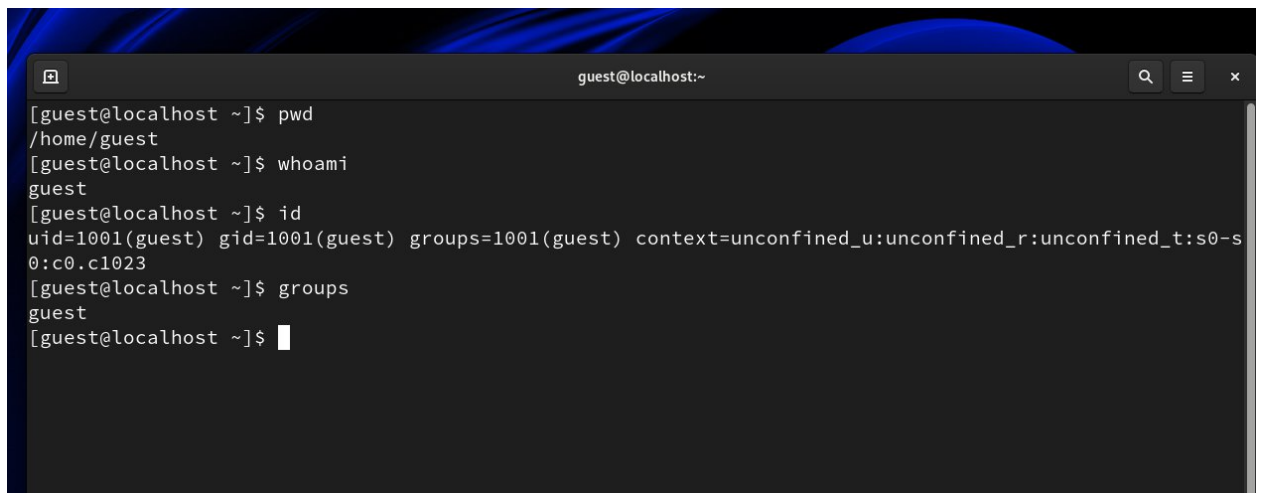
The screenshot shows a terminal window titled 'Terminal' with a timestamp of 'Sep 14 17:41'. The prompt is 'user@localhost:~'. The user enters the command 'useradd guest', which results in the error 'useradd: Permission denied. useradd: cannot lock /etc/passwd; try again later.'. The user then enters 'sudo useradd guest', which prompts for a password. The user enters a password (indicated by dots), and the command completes successfully, returning the prompt 'user@localhost ~]\$. The terminal output is as follows:

```
[user@localhost ~]$ useradd guest
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
[user@localhost ~]$ sudo useradd guest
[sudo] password for user:
[user@localhost ~]$ :
```

Фигура № 1

A terminal window titled 'user@localhost:~' with a dark background. It shows the process of adding a user named 'guest' and setting a password. The user 'user' attempts to run 'passwd guest', but receives an error: 'passwd: Only root can specify a user name.' Then, 'user' runs 'sudo passwd guest'. The prompt changes to '[sudo] password for user:', and the user enters a password. The system responds: 'Changing password for user guest. New password: BAD PASSWORD: The password is shorter than 8 characters'. The user retypes the password, and the system responds: 'passwd: all authentication tokens updated successfully.' The prompt returns to '[user@localhost ~]\$'.

Фигура № 2

A terminal window titled 'guest@localhost:~' with a dark background. It shows the user 'guest' running several commands to check their environment. First, 'pwd' returns '/home/guest'. Then, 'whoami' returns 'guest'. Next, 'id' returns 'uid=1001(guest) gid=1001(guest) groups=1001(guest) context=unconfined\_u:unconfined\_r:unconfined\_t:s0-s0:c0.c1023'. Finally, 'groups' returns 'guest'. The prompt returns to '[guest@localhost ~]\$'.

Фигура № 3

```
guest@localhost:~  
dbus:x:81:81:System message bus:///sbin/nologin  
polkitd:x:998:996:User for polkitd:///sbin/nologin  
sssd:x:997:995:User for sssd:///sbin/nologin  
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin  
geoclue:x:996:994:User for geoclue:/var/lib/geoclue:/sbin/nologin  
cockpit-ws:x:995:992:User for cockpit web service:/nonexisting:/sbin/nologin  
cockpit-wsinstance:x:994:991:User for cockpit-ws instances:/nonexisting:/sbin/nologin  
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin  
pipewire:x:993:990:PipeWire System Daemon:/run/pipewire:/usr/sbin/nologin  
libstoragemgmt:x:988:988:daemon account for libstoragemgmt:/usr/sbin/nologin  
flatpak:x:987:986:User for flatpak system helper:///sbin/nologin  
colord:x:986:985:User for colord:/var/lib/colord:/sbin/nologin  
clevis:x:985:984:Clevis Decryption Framework unprivileged user:/var/lib/colord:/sbin/nologin  
setroubleshoot:x:984:983:SELinux troubleshoot server:/var/lib/setroubleshoot:/sbin/nologin  
gdm:x:42:42::/var/lib/gdm:/sbin/nologin  
gnome-initial-setup:x:983:982::/run/gnome-initial-setup:/sbin/nologin  
chrony:x:982:981:chrony system user:/var/lib/chrony:/sbin/nologin  
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin  
dnsmasq:x:981:980:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin  
tcpdump:x:72:72::/sbin/nologin  
user:x:1000:1000:user:/home/user:/bin/bash  
vboxadd:x:980:1::/var/run/vboxadd:/bin/false  
guest:x:1001:1001::/home/guest:/bin/bash  
[guest@localhost ~]$
```

Фигура № 4

```
[guest@localhost ~]$ pwd  
/home/guest  
[guest@localhost ~]$ mkdir dir1  
[guest@localhost ~]$ ls -l  
total 0  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Desktop  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:49 dir1  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Documents  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Downloads  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Music  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Pictures  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Public  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Templates  
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Videos  
[guest@localhost ~]$ lsattr
```

Фигура № 5

```
----- ./vboxclient-vmvga-session-tty2
----- ./vboxclient-vmvga-session-tty2
----- ./dir1
----- ./lessht
[guest@localhost ~]$ chmod 000 dir1/
[guest@localhost ~]$ ls -l
total 0
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Desktop
d------. 2 guest guest 6 Sep 14 17:49 dir1
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Documents
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Downloads
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Music
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Pictures
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Public
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Templates
drwxr-xr-x. 2 guest guest 6 Sep 14 17:44 Videos
[guest@localhost ~]$
```

Фигура № 6

### ***3. Вывод***

Я узнал, как создать пользователя и как установить индивидуальные и специальные разрешения для файлов и каталогов.