

Отчет по лабораторной работе №2

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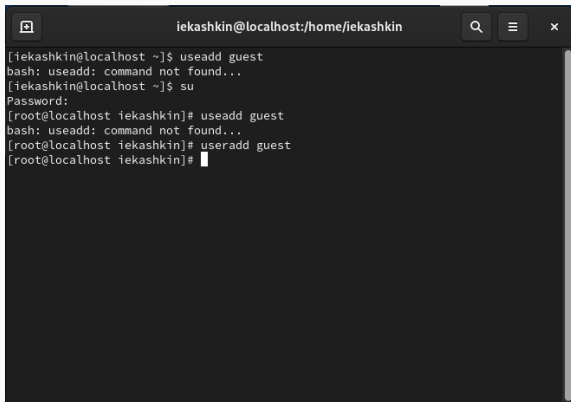
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Получение практических навыков работы в консоли с атрибутами файлов, закрепление теоретических основ дискреционного разграничения доступа в современных системах с открытым кодом на базе ОС Linux

Получить практические навыки работы в консоли с атрибутами файлов

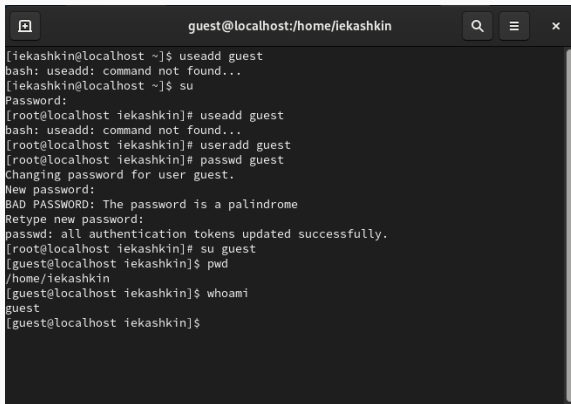
Создание учетной записи

-Мы создаем учетную запись (рис. 1)

A terminal window titled 'iekashkin@localhost:/home/iekashkin' with search, menu, and close icons. The terminal shows a user attempting to create a 'guest' user using 'useadd' and 'su' commands, which fail. Then, the user switches to root and successfully creates the user with 'useradd guest'.

```
iekashkin@localhost ~]$ useadd guest
bash: useadd: command not found...
iekashkin@localhost ~]$ su
Password:
[root@localhost iekashkin]# useadd guest
bash: useadd: command not found...
[root@localhost iekashkin]# useradd guest
[root@localhost iekashkin]#
```

Figure 1: Создание Уч.записи

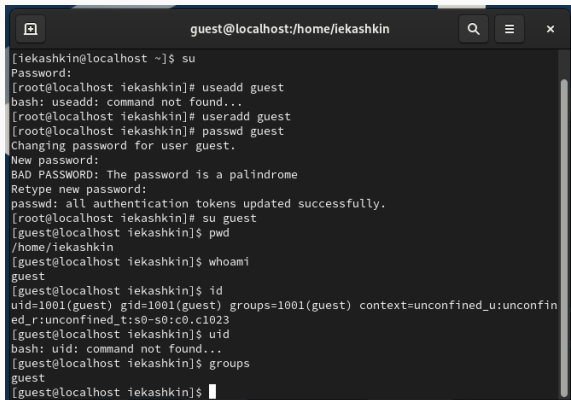


```
guest@localhost:/home/iekashkin

[iekashkin@localhost ~]$ useadd guest
bash: useadd: command not found...
[iekashkin@localhost ~]$ su
Password:
[root@localhost iekashkin]# useadd guest
bash: useadd: command not found...
[root@localhost iekashkin]# useradd guest
[root@localhost iekashkin]# passwd guest
Changing password for user guest.
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost iekashkin]# su guest
[guest@localhost iekashkin]$ pwd
/home/iekashkin
[guest@localhost iekashkin]$ whoami
guest
[guest@localhost iekashkin]$
```

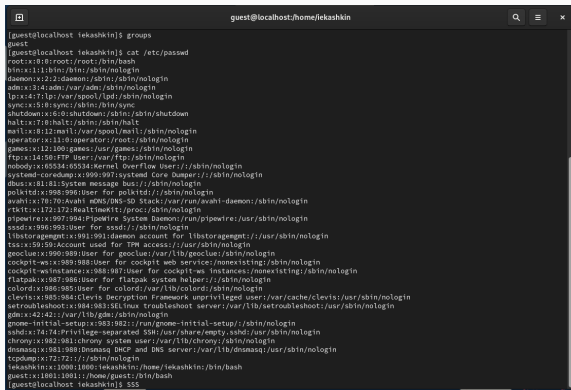
Figure 2: Вход в guest

Узнаем id и др

A terminal window titled 'guest@localhost:/home/iekashkin' with search, menu, and close icons. The terminal shows a sequence of commands: 'su' to switch to root, 'useadd guest' (error), 'useradd guest' (success), 'passwd guest' (password change), and 'su guest' to switch back to the guest user. Then, 'pwd' shows the home directory, 'whoami' shows 'guest', and 'id' displays detailed user information including uid=1001, gid=1001, and groups=1001(guest). Finally, 'uid' (error) and 'groups' are executed.

```
[iekashkin@localhost ~]$ su
Password:
[root@localhost iekashkin]# useadd guest
bash: useadd: command not found...
[root@localhost iekashkin]# useradd guest
[root@localhost iekashkin]# passwd guest
Changing password for user guest.
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost iekashkin]# su guest
[guest@localhost iekashkin]$ pwd
/home/iekashkin
[guest@localhost iekashkin]$ whoami
guest
[guest@localhost iekashkin]$ id
uid=1001(guest) gid=1001(guest) groups=1001(guest) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[guest@localhost iekashkin]$ uid
bash: uid: command not found...
[guest@localhost iekashkin]$ groups
guest
[guest@localhost iekashkin]$
```

Figure 3: Узнаем id и тд.



```
guest@localhost: /home/lekashkin
[guest@localhost lekashkin]$ groups
guest
[guest@localhost lekashkin]$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel Overflow User:/sbin/nologin
systemd-coredump:x:999:997:systemd Core Dumper:/sbin/nologin
dbus:x:81:81:system message bus:/sbin/nologin
polkitd:x:998:996:User for polkitd:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin
pipewire:x:997:994:PipeWire System Daemon:/usr/sbin/nologin
sssd:x:996:993:User for sssd:/sbin/nologin
libstoragemgmt:x:991:991:daemon account for libstoragemgmt:/usr/sbin/nologin
tss:x:59:59:Account used for TPM access:/usr/sbin/nologin
geoclue:x:990:989:User for geoclue:/var/lib/geoclue:/sbin/nologin
cockpit-ws:x:989:988:User for cockpit web service:/nonexistent:/sbin/nologin
cockpit-wsInstance:x:988:987:User for cockpit-ws instances:/nonexistent:/sbin/nologin
fltpak:x:1987:1986:User for fltpak system helpers:/sbin/nologin
colord:x:986:985:User for colord:/var/lib/colord:/sbin/nologin
clevis:x:985:984:Clevis Decryption Framework unprivileged user:/var/cache/clevis:/usr/sbin/nologin
setroubleshoot:x:984:983:SELinux troubleshoot server:/var/lib/setroubleshoot:/usr/sbin/nologin
gdm:x:42:42:/var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:983:982:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
chrony:x:982:981:chrony system user:/var/lib/chrony:/sbin/nologin
dnsmasq:x:981:980:dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/usr/sbin/nologin
tcpdump:x:72:72:/sbin/nologin
lekashkin:x:1000:1000:lekashkin:/home/lekashkin:/bin/bash
guest:x:1001:1001:./home/guest:/bin/bash
[guest@localhost lekashkin]$ SSS
```

Figure 4: groups

```
[guest@localhost iekashkin]$ cat /etc/passwd | grep guest  
guest:x:1001:1001::/home/guest:/bin/bash  
[guest@localhost iekashkin]$
```

Figure 5: cat

ls -l /home/

```
[guest@localhost iekashkin]$ cat /etc/passwd | grep guest
guest:x:1001:1001::/home/guest:/bin/bash
[guest@localhost iekashkin]$ ls -l /home/
total 4
drwx-----. 3 guest      guest      78 Sep 12 14:08 guest
drwx-----. 14 iekashkin iekashkin 4096 Sep  8 18:51 iekashkin
[guest@localhost iekashkin]$ ls -li /home/
67636094 guest 67636093 iekashkin
[guest@localhost iekashkin]$
```

Figure 6: ls -l home

```
[guest@localhost iekashkin]$ lsattr /home
lsattr: Permission denied While reading flags on /home/iekashkin
----- /home/guest
[guest@localhost iekashkin]$ S
```

Figure 7: lsattr

```
[guest@localhost iekashkin]$ mkdir dir1  
mkdir: cannot create directory 'dir1': Permission denied  
[guest@localhost iekashkin]$ mkdir dir  
mkdir: cannot create directory 'dir': Permission denied  
[guest@localhost iekashkin]$ mkdir dir1  
mkdir: cannot create directory 'dir1': Permission denied  
[guest@localhost iekashkin]$
```

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```
[root@localhost iekashkin]# mkdir dir1
[root@localhost iekashkin]# ls
Desktop  dir1  Documents  Downloads  Music  Pictures  Public  Templates  Videos
[root@localhost iekashkin]# ls -l
total 0
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Desktop
drwxr-xr-x. 2 root      root      6 Sep 12 14:39 dir1
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Documents
drwxr-xr-x. 3 iekashkin iekashkin 103 Sep  8 18:46 Downloads
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Music
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Pictures
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Public
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Templates
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Videos
[root@localhost iekashkin]#
```

{ #fig:010 width=70% }

```
[root@localhost iekashkin]# chmod 000 dir1
[root@localhost iekashkin]# ls -l
total 0
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Desktop
d----- 2 root      root      6 Sep 12 14:39 dir1
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Documents
drwxr-xr-x. 3 iekashkin iekashkin 103 Sep  8 18:46 Downloads
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Music
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Pictures
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Public
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Templates
drwxr-xr-x. 2 iekashkin iekashkin  6 Sep  8 18:19 Videos
[root@localhost iekashkin]#
```

Figure 8: chmod

-Получил практические навыки работы в консоли с атрибутами файлов, закрепление теоретических основ дискреционного разграничения доступа в современных системах с открытым кодом на базе ОС Linux

Спасибо за внимание!