

Linux Task1

Linux User Setup with Non-Interactive Shell

Situation

To accommodate the backup agent tool's specifications, the system admin team at xFusionCorp Industries requires the creation of a user with a non-interactive shell. Here's your task:

Create a user named rose with a non-interactive shell on App Server 1.

Infrastructure Details

Server Name	IP	Hostname	User	Password	Purpose
stapp01	172.16.238.10	stapp01.stratos.xfusioncorp.com	tony	Ir0nM@n	Nautilus App 1
stapp02	172.16.238.11	stapp02.stratos.xfusioncorp.com	steve	Am3ric@	Nautilus App 2
stapp03	172.16.238.12	stapp03.stratos.xfusioncorp.com	banner	BigGr33n	Nautilus App 3
stlb01	172.16.238.14	stlb01.stratos.xfusioncorp.com	loki	Mischi3f	Nautilus HTTP LBR
stdb01	172.16.239.10	stdb01.stratos.xfusioncorp.com	peter	Sp!dy	Nautilus DB Server
ststor01	172.16.238.15	ststor01.stratos.xfusioncorp.com	natasha	Bl@kW	Nautilus Storage Server
stbkp01	172.16.238.16	stbkp01.stratos.xfusioncorp.com	clint	H@wk3y3	Nautilus Backup Server
stmail01	172.16.238.17	stmail01.stratos.xfusioncorp.com	groot	Gr00T123	Nautilus Mail Server
jump_host	Dynamic	jump_host.stratos.xfusioncorp.com	thor	mjolnir123	Jump Server to Access Stork DC
jenkins	172.16.238.19	jenkins.stratos.xfusioncorp.com	jenkins	j@rv!s	Jenkins Server for CI/CD

Solution

- SSH to APP Server1 (ssh tony@172.16.238.10)

```
thor@jumphost ~$ ssh tony@172.16.238.10
The authenticity of host '172.16.238.10 (172.16.238.10)' can't be established.
ED25519 key fingerprint is SHA256:YHzEXHT5KWc7ILrwNlgmBEf08Vk2Fe61ueVP6fhtOAY.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.16.238.10' (ED25519) to the list of known hosts.
tony@172.16.238.10's password:
Permission denied, please try again.
tony@172.16.238.10's password:
Permission denied, please try again.
tony@172.16.238.10's password:
Last failed login: Thu Dec 12 02:20:22 UTC 2024 from 172.16.238.3 on ssh:notty
There were 2 failed login attempts since the last successful login.
[tony@stapp01 ~]$
```

- useradd rose -s /sbin/nologin
- id rose (verify if the id created)
- cat /etc/passwd (verify the non-interactive shell)

```
thor@jumphost ~$ ssh tony@172.16.238.10
tony@172.16.238.10's password:
Last login: Thu Dec 12 02:20:42 2024 from 172.16.238.3
[tony@stapp01 ~]$ useradd rose -s /sbin/nologin
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
[tony@stapp01 ~]$ sudo useradd rose -s /sbin/nologin

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

[sudo] password for tony:
[tony@stapp01 ~]$ id rose
uid=1002(rose) gid=1002(rose) groups=1002(rose)
```

```
cat: /etc/passwd: No such file or directory
[tony@stapp01 ~]$ sudo cat /etc/passwords
cat: /etc/passwords: No such file or directory
[tony@stapp01 ~]$ sudo 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
tss:x:59:59:Account used for TPM access:/:/usr/sbin/nologin
systemd-coredump:x:999:997:systemd Core Dumper:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/usr/share/empty.sshd:/usr/sbin/nologin
ansible:x:1000:1000:~/home/ansible:/bin/bash
tony:x:1001:1001:~/home/tony:/bin/bash
rose:x:1002:1002:~/home/rose:/sbin/nologin
[tony@stapp01 ~]$
```