



**Placement Empowerment Program**  
***Cloud Computing and DevOps Centre***

***60 Days of DevOps Challenge***

***Day 03 : Secure Root SSH Access***

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## Secure Root SSH Access

### Objective :

To disable direct SSH login for the root user on all application servers (stapp01, stapp02, and stapp03) within the Stratos Datacenter.

### Steps Performed :

**Connect to an App Server:** Log in to one of the app servers (e.g., stapp01).

**Edit the SSH config file:** Open the SSH server configuration file for editing.

- Command: `sudo vi /etc/ssh/sshd_config`
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**Disable root login:** Find the line that says `#PermitRootLogin yes` or `PermitRootLogin yes`. Change it to:

- `PermitRootLogin no`

**Save and exit:** Save the file and close the editor.

**Restart the SSH service:** Restart the SSH service to apply the new configuration.

- Command: `sudo systemctl restart sshd`

**Repeat for all servers:** Perform steps 1-5 for the remaining app servers (stapp02 and stapp03).

Following security audits, the **xFusionCorp Industries** security team has rolled out new protocols, including the restriction of direct root SSH login.

Your task is to disable direct SSH root login on all app servers within the **Stratos Datacenter**.

Check

Try Later

Terminal 1

```
[tony@stapp01 ~]$ ssh steve@stapp02.stratos.xfusioncorp.com
The authenticity of host 'stapp02.stratos.xfusioncorp.com (172.17.0.5)' can't be established.
ED25519 key fingerprint is SHA256:iSkG6lM69KztQmjZDacm5lKr9cqJeTAJOKzNGbSHMA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'stapp02.stratos.xfusioncorp.com' (ED25519) to the list of known hosts.
steve@stapp02.stratos.xfusioncorp.com's password:
[steve@stapp02 ~]$ sudo vi /etc/ssh/sshd_config

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 steve:
[steve@stapp02 ~]$ sudo systemctl restart sshd
[steve@stapp02 ~]$ sudo grep -i PermitRootLogin /etc/ssh/sshd_config
PermitRootLogin no
# the setting of "PermitRootLogin without-password".
[steve@stapp02 ~]$ ssh banner@stapp03.stratos.xfusioncorp.com
The authenticity of host 'stapp03.stratos.xfusioncorp.com (172.17.0.6)' can't be established.
ED25519 key fingerprint is SHA256:08SRA/5ariNMemkxi0gb5R4kJZ/CMPtrzbZAh1IzN0s.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'stapp03.stratos.xfusioncorp.com' (ED25519) to the list of known hosts.
banner@stapp03.stratos.xfusioncorp.com's password:
[banner@stapp03 ~]$ sudo vi /etc/ssh/sshd_config

We trust you have received the usual lecture from the local System
```

All Bookmarks

Congrats!

You have completed the task successfully.

100 Days of DevOps

Day 3: Secure Root SSH Access

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Share your success card