



Placement Empowerment Program
Cloud Computing and DevOps Centre

100 Days of DevOps Challenge

Day 07: Linux SSH Authentication

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Linux SSH Authentication

Objective :

The goal is to set up **passwordless SSH access** from the thor user on the jump_host to three application servers: stapp01, stapp02, and stapp03. Each connection must be made to a specific user on the respective server: tony for stapp01, steve for stapp02, and banner for stapp03.

Steps Performed :

- **Generate a Key Pair:** On the jump_host, run **ssh-keygen -t rsa** as the thor user. Press Enter to accept all defaults and leave the passphrase empty.
- **Copy the Public Key:** Use the **ssh-copy-id** command to copy your public key to each app server. This will require you to enter the password for each user (tony, steve, and banner) the first time.
 - **ssh-copy-id tony@stapp01**
 - **ssh-copy-id steve@stapp02**
 - **ssh-copy-id banner@stapp03**
- **Verify the Connection:** Test the passwordless access for each server to ensure it works.
 - **ssh tony@stapp01**
 - **ssh steve@stapp02**
 - **ssh banner@stapp03**

End

00:10

✓

You're done!

CONGRATULATIONS!!!!

You have successfully completed the challenge. Results have been saved. Ref ID: 68066c5f5500bdf7ab9a7b24

That might have been an easy task for you. But don't worry. Depending on the tasks you complete, you will get more difficult and advanced tasks assigned in the future.

You can also view your results in your dashboard under the "Active Practice" page.

Terminal 1

+

Stop Lab

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⋮

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'banner@stapp03'" and check to make sure that only the key(s) you wanted were added.

thor@jumphost ~\$ ssh tony@stapp01

[tony@stapp01 ~]\$ ssh steve@stapp02

The authenticity of host 'stapp02 (172.16.238.11)' can't be established.

ED25519 key fingerprint is SHA256:C1we9w36W1kIjIS893VdRoPTG+i5WKJF0DC1hY7CYqs.

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' (ED25519) to the list of known hosts.

steve@stapp02's password:

[steve@stapp02 ~]\$

Display all 642 possibilities? (y or n)

[steve@stapp02 ~]\$

[steve@stapp02 ~]\$ ^C

[steve@stapp02 ~]\$ exit

logout

Connection to stapp02 closed.

[tony@stapp01 ~]\$ exit

logout

Connection to stapp01 closed.

thor@jumphost ~\$ ssh steve@stapp02

Last login: Mon Aug 11 16:18:37 2025 from 172.16.238.10

[steve@stapp02 ~]\$ exit

logout

Connection to stapp02 closed.

thor@jumphost ~\$ ssh banner@stapp03

[banner@stapp03 ~]\$

Feedback

✓

Congrats!

You have completed the task successfully.

100 Days of DevOps

Day 7: Linux SSH Authentication

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Share your success card

Feedback