Troubleshooting series

SSH Connectivity Issues

Problem Statement → You are not able to ssh/login to a server, how will you troubleshoot?

what is SSH? — Networking Protocol used to access remote server in unique way.

Steps for Troubleshooting —

① Try 'ping' command.
This is in-general direction for troubleshooting of any network problem.

PING →ⓐ Command used to check reachability of host.
   Example $ ping 192.168.3.11
   ⓑ It is kind of echo request to send and receive network packets.

② Permissions for accessing server →
   ⓐ Is server IP correct? → confirm on IP address you're using.

   ⓑ SSH key file — are you using valid key file?
      ⓘ Is this key injected on server? Read about private & public access keys.

(ii) File permissions of key file
→ Use $ ls -l to check file permissions
→ Use $chmod to set permissions.
Example — chmod 400 mykey.pem

③ Check SSH port permissions.
Remote server should allow local machine traffic on Port 22. Check Remote server Networking Rules.

④ There is possibility that an organisation is using port other than 22 for SSH. Check for permissions/ Configurations for that port in that case.

⑤ Is your local machine traffic reaching to remote host?

Ensure the network firewall you're behind is allowing traffic on Port 22 from your machine.

⑥ Check SSH daemon state.

SSH daemon → A background process helpful in establishing a secure connection to remote host.

Check the state of SSH daemon if it's in RUNNING state.

Example — $ sudo systemctl restart sshd

NOTE — Any example commands may vary basis Operating System

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Happy Learning :)