Day 39

Exploitation Analyst

Control Remote Connections:

SSH Keys:

What are SSH keys?

SSH keys are cryptographic keys used for secure authentication in place of passwords.

- Private key: Stays on your machine, must be kept secret.
- Public key: Stored on the server in ~/.ssh/authorized_keys.
- During login, the server verifies the private key matches the public key → access granted.

Why SSH keys are useful?

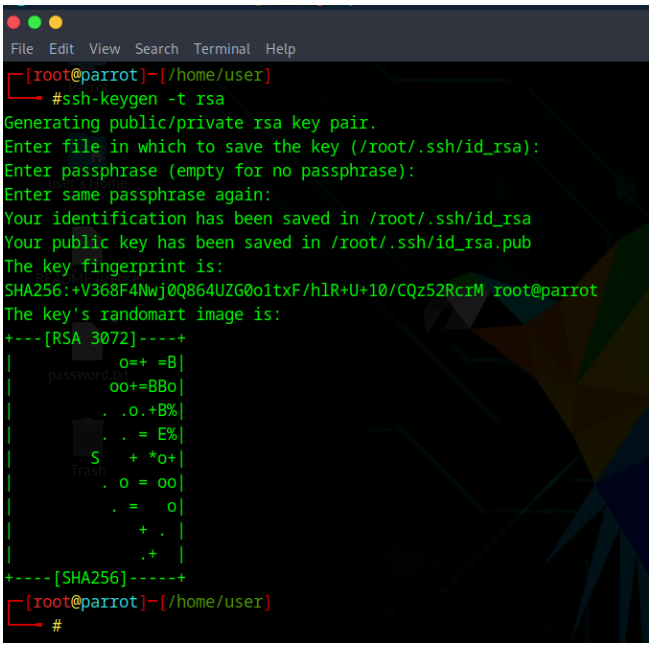
SSH keys are useful because they:

1. Increase security – harder to brute-force than passwords.
2. Enable passwordless login – faster and convenient.
3. Support automation – scripts and DevOps tools use keys.
4. Prevent credential theft – private key never leaves client.
5. Allow granular control – keys can be limited to specific users/commands.

Setting the SSH Keys:

Steps:

Generate SSH Key Pair on Client: using the command ssh-keygen -t rsa



Then copy the public key to the server: ssh-copy-id user@server_ip