■ Project 2 — Cloud Server Hardening & Secure Access

Student: Vishal Sundi | Platform: Microsoft Azure (Free Student Credits)

Quick Actions ■

- Create admin user

  ```
  sudo adduser adminuser && sudo usermod -aG sudo admi
  ```

- Grant sudo (NOPASSWD)

  ```
  echo 'adminuser ALL=(ALL) NOPASSWD:ALL' | sudo tee /
  ```

- Disable root SSH

  ```
  sudo sed -i 's/^#*PermitRootLogin.*/PermitRootLogin
  ```

- Generate SSH key

  ```
  ssh-keygen -t rsa -b 4096
  ```

- Copy SSH key

  ```
  ssh-copy-id adminuser@<server-ip>
  ```

Commands — Full Snippets ■■

```
        nn
02.     Project 2: Cloud Server Hardening & Secure
03.  Access (Quick Setup Guide)
04.  Student:
05.    Vishal Sundi
06.  Platform:
07.    Microsoft Azure (Free Student Credits)
08.  n
09.    Quick Setup Commands
10.  Create admin user:
11.  sudo adduser adminuser &
12.  & sudo usermod -aG sudo adminuser
13.  Grant sudo privileges:
14.  echo 'adminuser ALL=(ALL) NOPASSWD:ALL' | sudo tee
15.  /etc/sudoers.d/adminuser
16.  Disable root SSH login:
```

■ Project 2 — Cloud Server Hardening & Secure Access ■ (continued)

```
17.    sudo sed -i 's/^#*PermitRootLogin.*/PermitRootLogin no/'
18.    /etc/ssh/sshd_config &
19.    & sudo systemctl restart ssh
20.    Generate SSH key:
21.    ssh-keygen -t rsa -b 4096
22.    Copy SSH key to server:
23.    ssh-copy-id adminuser@
24.    Configure UFW:
25.    sudo apt install ufw -y &
26.    & sudo ufw allow OpenSSH &
27.    & sudo ufw enable &
28.    &
29.    sudo ufw status verbose
30.    Install Fail2Ban:
31.    sudo apt install fail2ban -y &
32.    & sudo systemctl enable fail2ban &
33.    & sudo
34.    systemctl start fail2ban
35.    Check Fail2Ban logs:
```

```
36.    sudo fail2ban-client status sshd &

37.    & sudo cat /var/log/fail2ban.log | grep

38.    Ban

39.    Enable Auditd:

40.    sudo apt install auditd -y &

41.    & sudo systemctl enable auditd &

42.    & sudo

43.    ausearch -m USER_LOGIN,USER_CMD

44.    (Bonus) Install Wazuh Agent:

45.    curl -sO https://packages.wazuh.com/4.x/apt/wazuh-agent-4.x.deb &

46.    & sudo

47.    WAZUH_MANAGER='

48.    ' dpkg -i wazuh-agent-4.x.deb &

49.    & sudo systemctl start

50.    wazuh-agent
```