**1. Create a virtual machine having the os centos.**

* 1. **Install firewall in the vm(centos might have firewall installed in default).(firewalld or iptables)**
  2. **Block certain ip range/subnet using firewalld.**
  3. **Allow http, https and ssh connection using firewall.**
  4. **You can add other rules as well as you prefer.**

**Note: The firewall rules should be saved permanently.**

| Answer:   1. **firewall in the vm** |
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| 1. **Block certain ip range/subnet using firewalld.**   **firewall-cmd --permanent --add-rich-rule=”rule family=’ipv4’ source address=’192.168.10.0/24’ reject”** |
| 1. **Allow http, https and ssh connection using firewall.**     Commands:  **firewall-cmd --permanent --add-service=http**  **firewall-cmd --permanent --add-service=https**  **firewall-cmd --permanent --add-service=ssh** |
| **d. You can add other rules as well as you prefer.**  **firewall-cmd --permanent --add-service=dhcpd** |