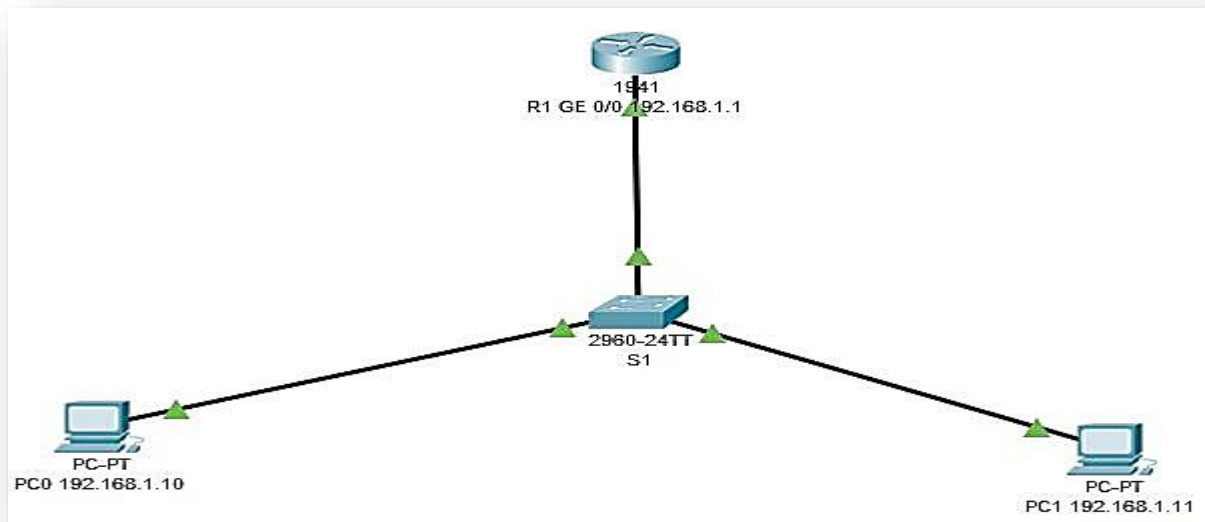**Scenario 7: A network having two PC's, a switch and a router. We will enable SSH protocol on router and switch such that PC can access them remotely.**

- Assign the IP's to device as shown in the figure above

- **Configuring Router:**
  ```
  en
  conf t
  hostname r1
  enable secret class
  line console 0
  password msois
  login
  exit

  interface gigabitEthernet 0/0
  ip address 192.168.1.1 255.255.255.0
  no shutdown
  show running-config
  ```

- **Configuring Switch:**
  ```
  en
  conf t
  hostname s1
  enable secret class
  line console 0
  password msois
  login
  exit

  interface vlan 1
  ip address 192.168.1.2 255.255.255.0
  no shutdown
  exit
  ```

```
ip default-gateway 192.168.1.1
exit
show running-config
```

- **Configuring PC 0:**
  ```
  ip address: 192.168.1.10
  gateway: 192.168.1.1
  ```

- **Configuring PC 1:**
  ```
  ip address: 192.168.1.11
  gateway: 192.168.1.1
  ```

- **Configuring SSH on Switch for key Generation:**
  ```
  Go to cli
  Password: msois
  en
  PW: class
  conf t
  ip domain-name msois.com
  crypto key generate rsa
  Size: 1024
  ```

- **Configuring SSH on Router for key Generation:**
  ```
  Go to cli
  Password: sois@123
  En
  PW: class
  Conf t
  ip domain-name msois.com
  crypto key generate rsa
  Size: 1024
  ```

- **Configuring SSH on Switch for adding User and only giving ssh to access:**
  ```
  User
  username admin secret msois
  line vty 0 15
  login local
  transport input ssh
  ```

- **Configuring SSH on router for adding User and only giving ssh to access:**
  ```
  user
  username admin secret msois
  line vty 0 15
  login local
  transport input ssh
  ###copy running-config stratup-config
  ```

- **On PC1 Command prompt:**

  ```
  telnet 192.168.1.1 (you will get connect closed by foreign
  host)
  ```

- **Getting access to router from command line:**

  ```
  ssh  -l admin 192.168.1.1
  password: msois

  After this you will be SSHed to router (prompt change)
  r1>
  r1> en
  password class
  r1# show running-config
  ```
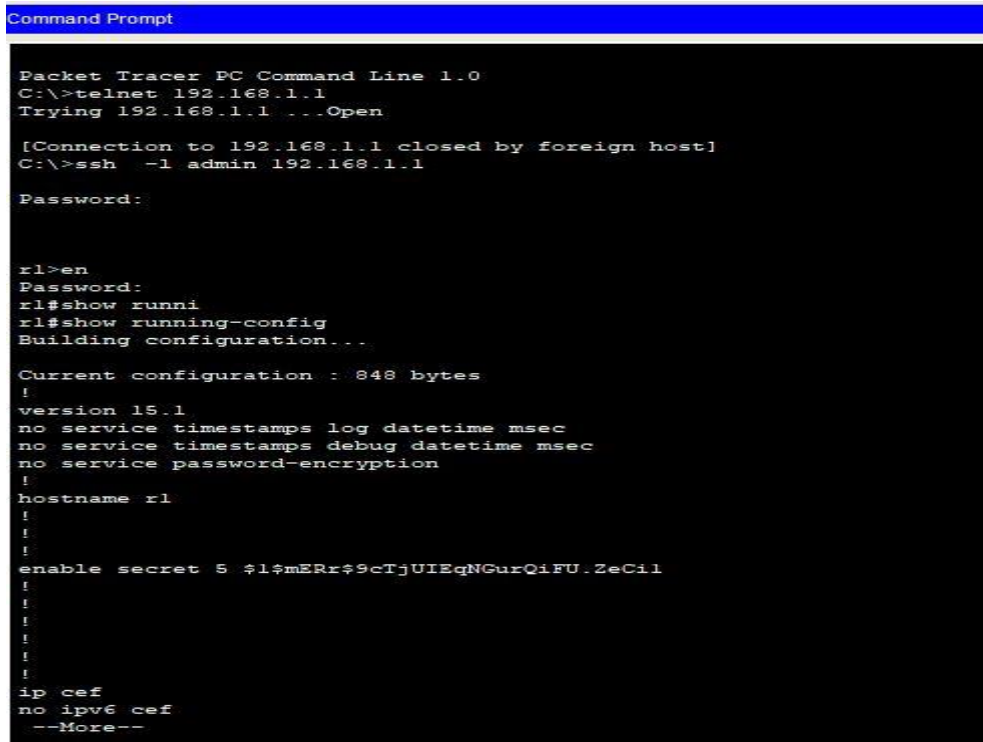
- **Getting access to switch from command line:**

  ```
  ssh  -l admin 192.168.1.2
  password: msois
  ```

- After this you will be SSHed to router (prompt change)

  ```
  s1>
  s1> en
  password class
  s1# show running-config
  ```