LAB 7 - PRACTICE HOW TO CONNECT 2 ROUTERS WITH THE HELP OF PPP

CHANGE HOSTNAMES AND ASSIGN USERNAME AND PASSWORDS

HeadOffice Router

```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname NehaNauman
NehaNauman(config)#username NehaNaumanCisco password neha
NehaNauman(config)#exit
NehaNauman#
%SYS-5-CONFIG_I: Configured from console by console
```

BranchOffice Router

```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname NehaNaumanCisco
NehaNaumanCisco(config)#username NehaNauman password neha
NehaNaumanCisco(config)#exit
NehaNaumanCisco#
%SYS-5-CONFIG_I: Configured from console by console
```

ISSUING PPP DEBUGGING COMMANDS

HeadOffice Router

```
NehaNauman#debug ppp authentication
PPP authentication debugging is on
NehaNauman#debug ppp negotiation
PPP protocol negotiation debugging is on
```

BranchOffice Router

```
NehaNaumanCisco#debug ppp authentication
PPP authentication debugging is on
NehaNaumanCisco#debug ppp negotiation
PPP protocol negotiation debugging is on
```

ASSIGNING IP ADDRESSES AND ENABLING PPP

HeadOffice Router

```
NehaNauman>en
NehaNauman#config t
Enter configuration commands, one per line.  End with CNTL/Z.
NehaNauman(config)#interface se2/0
NehaNauman(config-if)#ip address 10.0.0.1 255.0.0.0
NehaNauman(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
NehaNauman(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

NehaNauman(config-if)#clock rate 64000
NehaNauman(config-if)#encapsulation ppp
NehaNauman(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to down

Serial2/0 PPP: Using default call direction
Serial2/0 PPP: Treating connection as a dedicated line
Serial2/0 PPP: Phase is ESTABLISHING, Active Open

NehaNauman(config-if)#ppp authentication chap pap
NehaNauman(config-if)#exit
NehaNauman(config)#exit
NehaNauman#
%SYS-5-CONFIG_I: Configured from console by console
```

BranchOffice Router

```
NehaNaumanCisco(config-if)#ip address 10.0.0.2 255.0.0.0
NehaNaumanCisco(config-if)#no shutdown

NehaNaumanCisco(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
```

```
Serial2/0 PPP: Phase is AUTHENTICATING

Serial2/0 LCP: State is Open

Serial2/0 PPP: Phase is AUTHENTICATING

Serial2/0 LCP: State is Open

Serial2/0 PPP: Phase is AUTHENTICATING

Serial2/0 LCP: State is Open

Serial2/0 PPP: Phase is AUTHENTICATING

Serial2/0 LCP: State is Open
```