

Cisco's Async Dial-On-Demand Configuration

Static IP Routing

Statically routes IP using PPP with CHAP authentication over an asynchronous modem connected to the auxiliary port

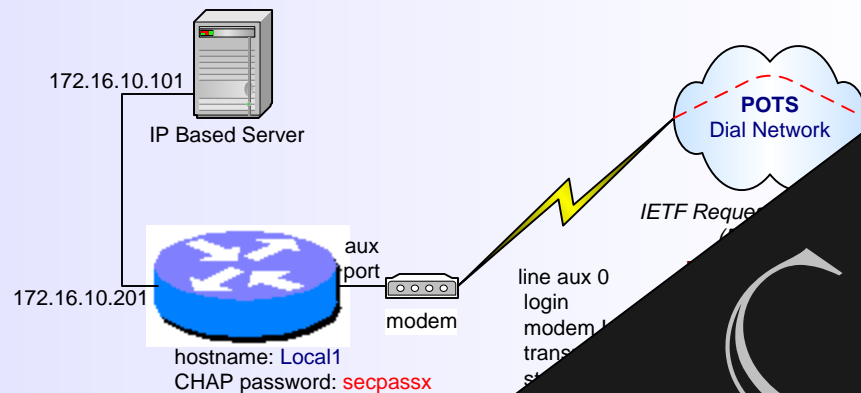
debug dialer

DDR debugging information about the packets received on a dialer interface.

show dialer and **show dialer map** to examine the state of the DDR sites, the physical interfaces, and the dialer map table

debug ppp negotiation - Displays information on PPP traffic and exchanges while negotiating the PPP components including Link Control Protocol (LCP), Authentication, and NCP. A successful PPP negotiation will first open the LCP state, then Authenticate, and finally negotiate NCP.

debug ppp authentication - Displays the PPP authentication protocol messages, including Challenge Authentication Protocol (CHAP) packet exchanges and Password Authentication Protocol (PAP) exchanges.



```
username Local1 password secpassx
```

interface Async1

```
no ip address  
encapsulation ppp  
dialer in-band  
dialer rotary-group 0  
async default routing  
async mode dedicated
```

interface Dialer1

```
ip unnumbered  
encapsulation ppp  
dialer
```

Checking the line connection:

When the router is configured for dialin access, the modem is properly connected and powered on, the following command can be used to check the line connection:

```
Remote1# sho line aux 0
```

```
Modem hardware state: CTS* no
```

Note: The last line of the output shows the modem hardware state. CTS and DSR are control signals provided by the modem. DTR and RTS are control signals provided by the router until there is a connection. The modem hardware state is ready when the CTS and DSR signals are present.

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