

PPP over Ethernet

Synopsis:

PPP over Ethernet of just PPPoE is a common method used by Internet Service Providers or ISPs to provide end user Internet access with authentication via PPP (Point to Point Protocol).

Before proceeding, gather the following information:

- 1) The interface name for the LAN port which will connect to your ISP (ex. re0)
- 2) The authorization name and the password provided by your IPS.

Next, we will create a PPP configuration file.

```
#  
# cd /etc/ppp  
# ls
```

If an existing ppp.conf file is found, then let us back it up.

```
#  
# mv ppp.conf ppp.conf.org  
#
```

Now, create a new ppp.conf and include the following:

```
default:
```

```
MyISP:  
set device PPPoE:re0  
set authname ???????????  
set authkey *****  
set dial  
set login  
add default HISADDR
```

Where re0 is the name of the interface facing the ISP, ??????? is the PPP username provided by your provider and ***** is the password provided by your provider.

Save the file.

Now add the following to your /etc/rc.conf file:

```
###PPPoE###  
ppp_enable="YES"  
ppp_mode="ddial"  
ppp_nat="YES"  
ppp_profile="MyISP"  
natd_enable="YES"  
natd_interface="re0"
```

Connect your system and reboot.

For more information, see the [FreeBSD Handbook](#).