

Installing Accel-ppp on Ubuntu 22.04

Introduction

- The Accel-ppp project has quite a lot documentation available along with forums which you can go through to gather information.
- Their install instructions served as a reference for the instructions on this page.
- <https://docs.accel-ppp.org/installation/ubuntu.html>

Install Instructions

- Install the following packages:

```
sudo apt-get install -y build-essential cmake gcc linux-headers-`uname -r`  
git libpcap-dev libssl-dev liblua5.1-0-dev
```

- Checkout the latest git source code:

```
sudo git clone https://github.com/accel-ppp/accel-ppp.git /opt/accel-ppp-code
```

- Create directory for build source code and go to this directory.

```
sudo mkdir /opt/accel-ppp-code/build  
cd /opt/accel-ppp-code/build/
```

- Generate the Makefile:

```
sudo cmake -DBUILD_IPOE_DRIVER=TRUE -DBUILD_VLAN_MON_DRIVER=TRUE -  
DCMAKE_INSTALL_PREFIX=/usr -DKDIR=/usr/src/linux-headers-`uname -r` -  
DLUA=TRUE -DCPACK_TYPE=Ubuntu22 ..
```



Remember the `..` at the end of the statement. It sets the path to the accel-ppp source code. **Do not delete this!** Alternatively you can replace it with the full path to the accel-ppp source code like `/opt/accel-ppp-code/`

- Compile

```
sudo make
```

- Create a DEB package

```
sudo cpack -G DEB
```

- Install the package

```
sudo dpkg -i accel-ppp.deb
```

- If the install went OK you can use the reference config file and make it active

```
sudo mv /etc/accel-ppp.conf.dist /etc/accel-ppp.conf
```

- We will cover a basic PPPoE server's config on its own dedicated Wiki page.
- See if it starts up. It should start up with the default config file

```
sudo systemctl start accel-ppp
sudo systemctl status accel-ppp
```

- Make sure the service is enabled for start-up

```
sudo systemctl enable accel-ppp
```

- Should you want to start the service up manually

```
sudo accel-pppd -d -c /etc/accel-ppp.conf -p /var/run/accel-ppp.pid
```

- Next we will take a look of some of the important files that were installed with the **accel-ppp.deb** package

Important files

- To discover the files installed with the .deb package we issue the following:

```
sudo dpkg -L accel-ppp
/etc
/etc/accel-ppp.conf.dist
/etc/default
/etc/default/accel-ppp
/etc/init.d
/etc/init.d/accel-ppp
/lib
/lib/modules
/lib/modules/5.15.0-84-generic
/lib/modules/5.15.0-84-generic/extra
/lib/modules/5.15.0-84-generic/extra/ipoe.ko
/lib/modules/5.15.0-84-generic/extra/vlan_mon.ko
/usr
/usr/bin
/usr/bin/accel-cmd
/usr/lib
/usr/lib/systemd
/usr/lib/systemd/system
/usr/lib/systemd/system/accel-ppp.service
/usr/lib64
/usr/lib64/accel-ppp
/usr/lib64/accel-ppp/libauth_chap_md5.so
/usr/lib64/accel-ppp/libauth_mschap_v1.so
/usr/lib64/accel-ppp/libauth_mschap_v2.so
/usr/lib64/accel-ppp/libauth_pap.so
/usr/lib64/accel-ppp/libchap-secrets.so
/usr/lib64/accel-ppp/libconnlimit.so
/usr/lib64/accel-ppp/libipoe.so
```

```
/usr/lib64/accel-ppp/libippool.so
/usr/lib64/accel-ppp/libipv6_dhcp.so
/usr/lib64/accel-ppp/libipv6_nd.so
/usr/lib64/accel-ppp/libipv6pool.so
/usr/lib64/accel-ppp/libl2tp.so
/usr/lib64/accel-ppp/liblog_file.so
/usr/lib64/accel-ppp/liblog_syslog.so
/usr/lib64/accel-ppp/liblog_tcp.so
/usr/lib64/accel-ppp/liblogwtm.so
/usr/lib64/accel-ppp/libluasupp.so
/usr/lib64/accel-ppp/libpppd_compat.so
/usr/lib64/accel-ppp/libpppoe.so
/usr/lib64/accel-ppp/libpptp.so
/usr/lib64/accel-ppp/libradius.so
/usr/lib64/accel-ppp/libshaper.so
/usr/lib64/accel-ppp/libsigchld.so
/usr/lib64/accel-ppp/libsstp.so
/usr/lib64/accel-ppp/libtriton.so
/usr/lib64/accel-ppp/libvlan-mon.so
/usr/sbin
/usr/sbin/accel-pppd
/usr/share
/usr/share/accel-ppp
/usr/share/accel-ppp/l2tp
/usr/share/accel-ppp/l2tp/dictionary
/usr/share/accel-ppp/l2tp/dictionary.rfc2661
/usr/share/accel-ppp/l2tp/dictionary.rfc3931
/usr/share/accel-ppp/radius
/usr/share/accel-ppp/radius/dictionary
/usr/share/accel-ppp/radius/dictionary.accel
/usr/share/accel-ppp/radius/dictionary.alcatel
/usr/share/accel-ppp/radius/dictionary.cisco
/usr/share/accel-ppp/radius/dictionary.dhcp
/usr/share/accel-ppp/radius/dictionary.microsoft
/usr/share/accel-ppp/radius/dictionary.mikrotik
/usr/share/accel-ppp/radius/dictionary.rfc2865
/usr/share/accel-ppp/radius/dictionary.rfc2866
/usr/share/accel-ppp/radius/dictionary.rfc2867
/usr/share/accel-ppp/radius/dictionary.rfc2868
/usr/share/accel-ppp/radius/dictionary.rfc2869
/usr/share/accel-ppp/radius/dictionary.rfc3162
/usr/share/accel-ppp/radius/dictionary.rfc3576
/usr/share/accel-ppp/radius/dictionary.rfc3580
/usr/share/accel-ppp/radius/dictionary.rfc4072
/usr/share/accel-ppp/radius/dictionary.rfc4372
/usr/share/accel-ppp/radius/dictionary.rfc4675
/usr/share/accel-ppp/radius/dictionary.rfc4679
/usr/share/accel-ppp/radius/dictionary.rfc4818
/usr/share/accel-ppp/radius/dictionary.rfc4849
/usr/share/accel-ppp/radius/dictionary.rfc5176
/usr/share/accel-ppp/radius/dictionary.rfc6911
```

```
/usr/share/man
/usr/share/man/man1
/usr/share/man/man1/accel-cmd.1
/usr/share/man/man5
/usr/share/man/man5/accel-ppp.conf.5
/var
/var/log
/var/log/accel-ppp
```

Next Up

- Be sure to visit the other Wiki Pages that gives you detail on how to configure Accel-ppp.

From:

<http://www.radiusdesk.com/wiki/> - **RADIUSdesk**

Permanent link:

<http://www.radiusdesk.com/wiki/technical/ppp-install-22-04>

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