

# wvdial Mini-Howto

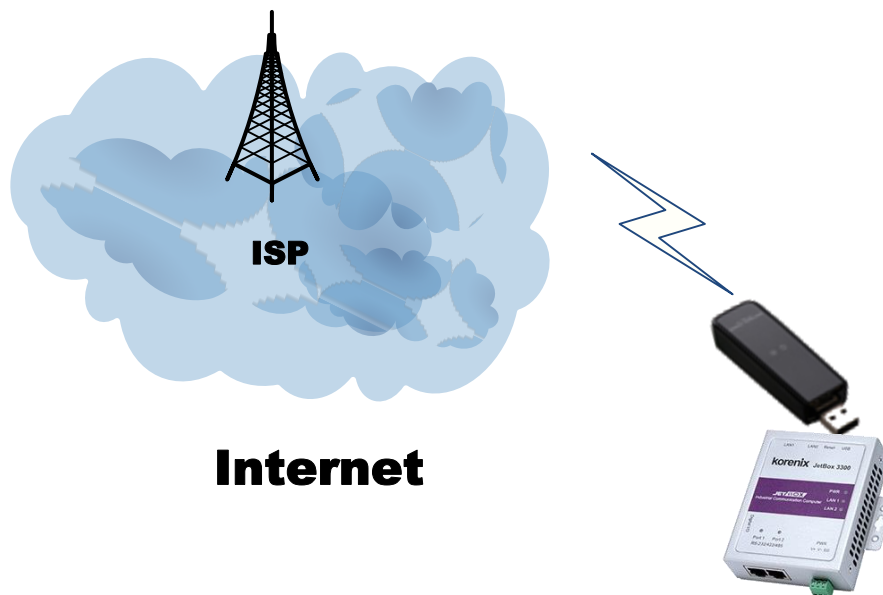
## Index

<b>wvdial Mini-Howto.....</b>	<b>1</b>
<i>Introduction.....</i>	<i>2</i>
<i>Simple Example.....</i>	<i>2</i>
<i>wvdial.conf.....</i>	<i>3</i>
Connecting to the internet for the first time .....	4
Testing the connection .....	4
Hanging UP .....	5
<i>Reference:.....</i>	<i>5</i>

## Introduction

This document will teach you how to use a serial modem for internet access using Wvdial. WvDial is a Point-to-Point Protocol dialer: it dials a modem and starts pppd in order to connect to the Internet. These instructions have been tested in JetBox with a serial port modem.

## Simple Example



## wvdial.conf

When WvDial starts, it first loads its configuration from `/etc/wvdial.conf`. The configuration file `/etc/wvdial.conf` is the equivalent to the Windows "ini" file format, with sections named in square brackets and a number of variable = value pairs within each section.

Here is a sample configuration file:

```
# /etc/wvdial.conf - wvdial configuration file

[Dialer Defaults]
Phone = *99#
Stupid Mode = 1
Init1 = ATZ
Init2 = ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
Init3 = AT+CGDCONT=1,"IP","internet"
Modem Type = Analog Modem
Baud = 115200
New PPPD = yes
Modem = /dev/ttyUSB0
ISDN = 0
Dial Command = ATDT
Username = username
Password = password
```

A wvdial.conf example

This example uses `Init3` to setup **APN** as *internet*. Changes with your apn and don't remove double quote. For example, in Taiwan, we use *internet* as APN.

When WvDial is in **Stupid Mode**, it does not attempt to interpret any prompts from the terminal server. It starts `pppd` immediately after the modem connects. Apparently there are ISP's that actually give you a login prompt, but work only if you start PPP, rather than logging in.

**Phone:** customize to your country or provider for internet connection.

i.e.: in Taiwan, we use `*99#`

**Username, Password:** change with your username and password if needed, and set **Stupid Mode** to 0. Some providers don't use username and password; you can just

leave them blank.

**Modem:** The location of the device that **wvdial** should use as your modem.  
i.e.: for Sierra Compass 888 usb 3g dongle, it uses `/dev/ttyUSB3`.

## Connecting to the internet for the first time

First, Enter wvdial at the root prompt to connect:

```
# wvdial
```

Wvdial initialises the modem and connects to the ISP's server.

```
# wvdial
--> WvDial: Internet dialer version 1.61
--> Cannot get information for serial port.
--> Initializing modem.
--> Sending: ATZ
OK
--> Sending: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
OK
--> Sending: AT+CGDCONT=1,"IP","internet"
OK
--> Modem initialized.
--> Sending: ATDT*99#
--> Waiting for carrier.
CONNECT 7200000
--> Carrier detected. Starting PPP immediately.
```

Wvdial starts the pppd daemon.

```
--> Starting pppd at Tue Jun 8 23:47:02 2010
--> Pid of pppd: 1235
--> Using interface ppp0
--> local IP address 116.59.241.151
--> remote IP address 10.64.64.64
--> primary DNS address 213.229.248.161
--> secondary DNS address 193.189.160.11
```

## Testing the connection

Use Ping to test the connection by querying the ISP's nameservers with a domain name eg. [www.google.com](http://www.google.com). Open a terminal or terminal window and enter the ping command. You should see replies like these.

```
# ping www.google.com
PING www.google.com (64.233.181.104): 56 data bytes
64 bytes from 64.233.181.104: seq=0 ttl=45 time=359.476 ms
64 bytes from 64.233.181.104: seq=1 ttl=45 time=356.268 ms
64 bytes from 64.233.181.104: seq=2 ttl=45 time=346.154 ms
64 bytes from 64.233.181.104: seq=3 ttl=45 time=336.108 ms

--- www.google.com ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 336.108/349.501/359.476 ms
```

## Hanging UP

Hang up with ctrl-C (hold down the Control key and press the C key).

```
Caught signal 2: Attempting to exit gracefully...
--> Terminating on signal 15
--> Connect time 108.3 minutes.
--> Disconnecting at Wed Jun 9 01:35:23 2010
```

## Reference:

- <http://en.wikipedia.org/wiki/Wvdial>
- [http://newbiedoc.berlios.de/wiki/Setting\\_up\\_a\\_serial\\_modem\\_using\\_Wvdial](http://newbiedoc.berlios.de/wiki/Setting_up_a_serial_modem_using_Wvdial)
- <http://linux.die.net/man/5/wvdial.conf>
- <http://linux.die.net/man/1/wvdial>
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