

# How to Configure OpenVPN in Kali Linux?

[support.ipvanish.com/hc/en-us/articles/360002787473-How-to-Configure-OpenVPN-in-Kali-Linux-](https://support.ipvanish.com/hc/en-us/articles/360002787473-How-to-Configure-OpenVPN-in-Kali-Linux-)

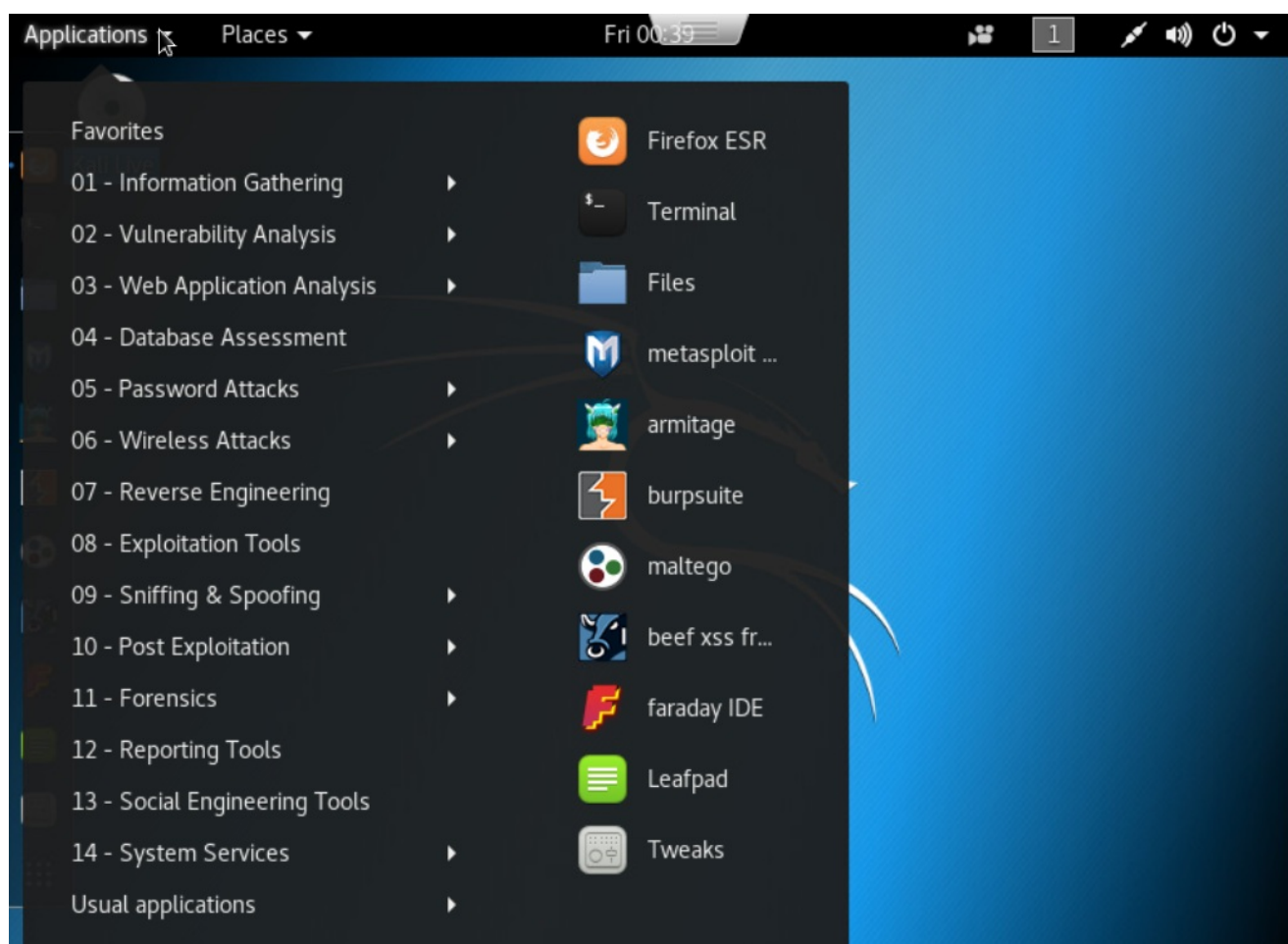


The following are required for OpenVPN to work on Kali Linux:

- A working installation of Kali Linux (This guide uses Kali-rolling version)
- A device with internet access
- A secure IPVanish VPN connection (Don't have one? Sign up [here!](#))

Follow the steps below to configure IPVanish OpenVPN on Kali Linux:

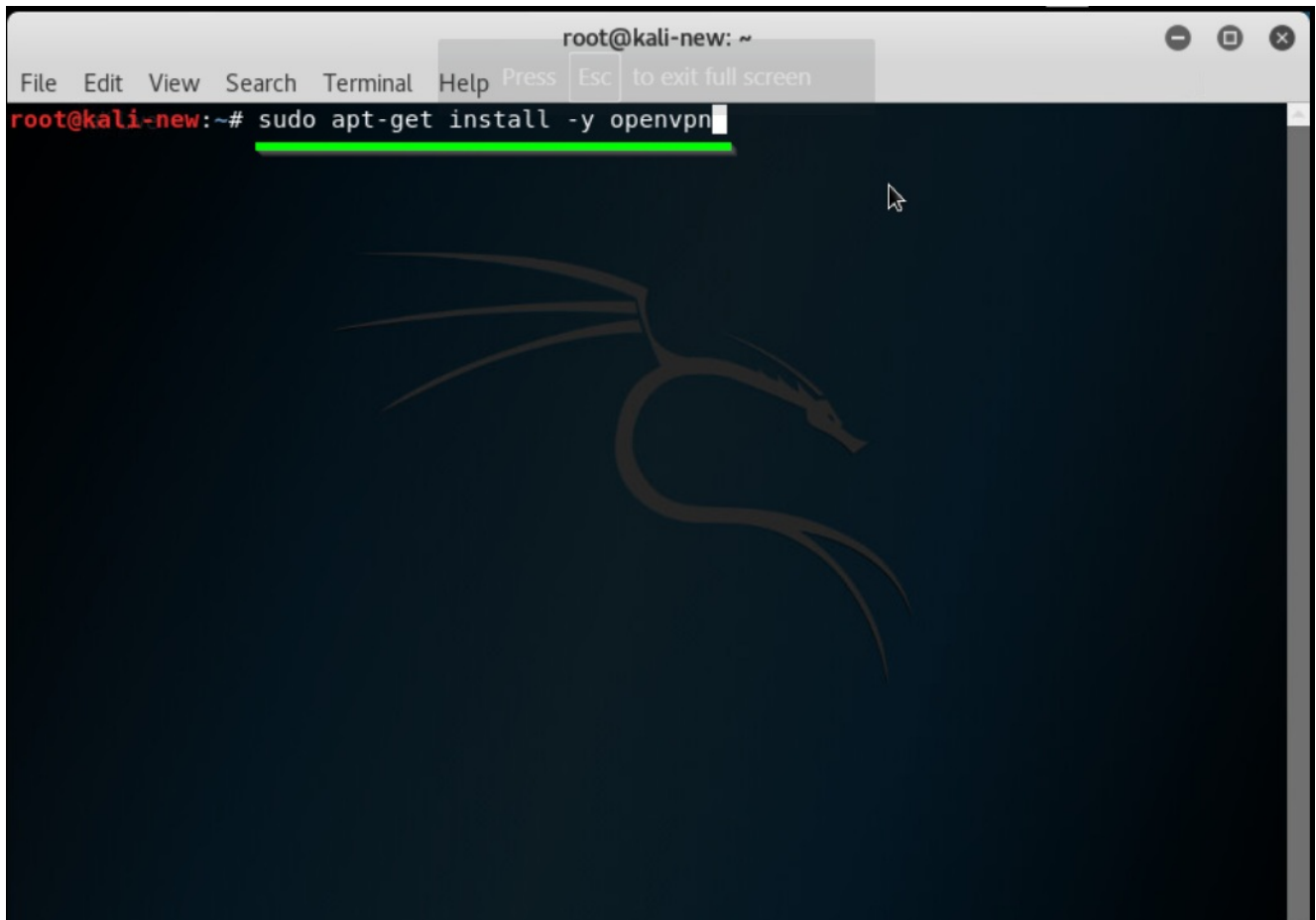
1. Access the **Terminal** window from the **Applications** icon as shown below.



## 2. Install OpenVPN package

Installation of the OpenVPN package can be achieved by typing the following command and pressing Enter:

```
sudo apt-get install -y openvpn
```

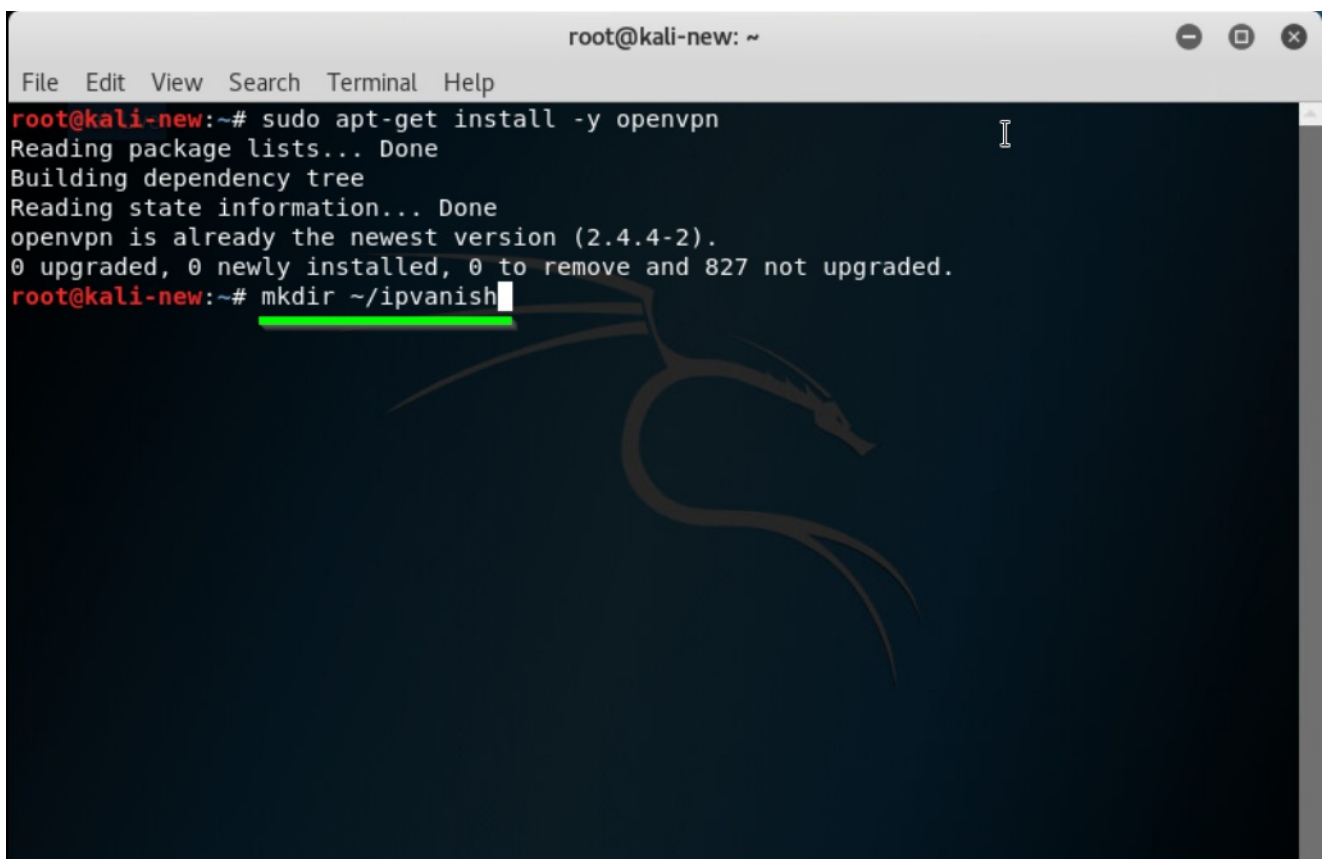
A terminal window titled 'root@kali-new: ~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar ('Press Esc to exit full screen'). The command 'sudo apt-get install -y openvpn' is entered and highlighted with a green underline. A faint dragon logo is visible in the background.

```
root@kali-new: ~
File Edit View Search Terminal Help Press Esc to exit full screen
root@kali-new:~# sudo apt-get install -y openvpn
```

#### Create a VPN directory

3. To create a **VPN directory**, type the following command and press Enter:

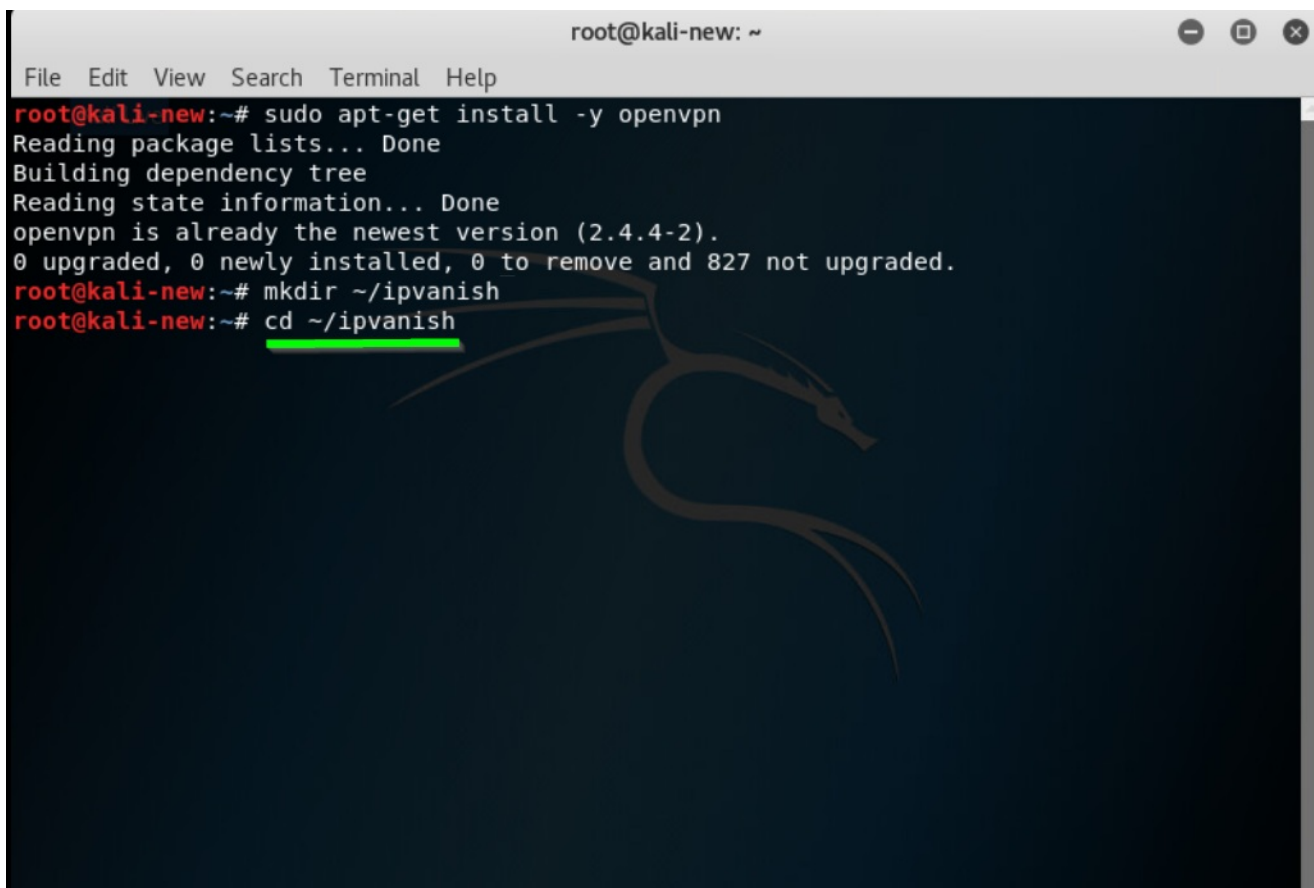
```
mkdir ~/ipvanish
```

A terminal window titled 'root@kali-new: ~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar ('Press Esc to exit full screen'). The output of the previous command is shown, followed by the command 'mkdir ~/ipvanish' which is highlighted with a green underline. A faint dragon logo is visible in the background.

```
root@kali-new: ~
File Edit View Search Terminal Help
root@kali-new:~# sudo apt-get install -y openvpn
Reading package lists... Done
Building dependency tree
Reading state information... Done
openvpn is already the newest version (2.4.4-2).
0 upgraded, 0 newly installed, 0 to remove and 827 not upgraded.
root@kali-new:~# mkdir ~/ipvanish
```

4. Next, we need to change the IPVanish directory. Execute the following command in the **Terminal** window and press Enter:

cd ~/ipvanish

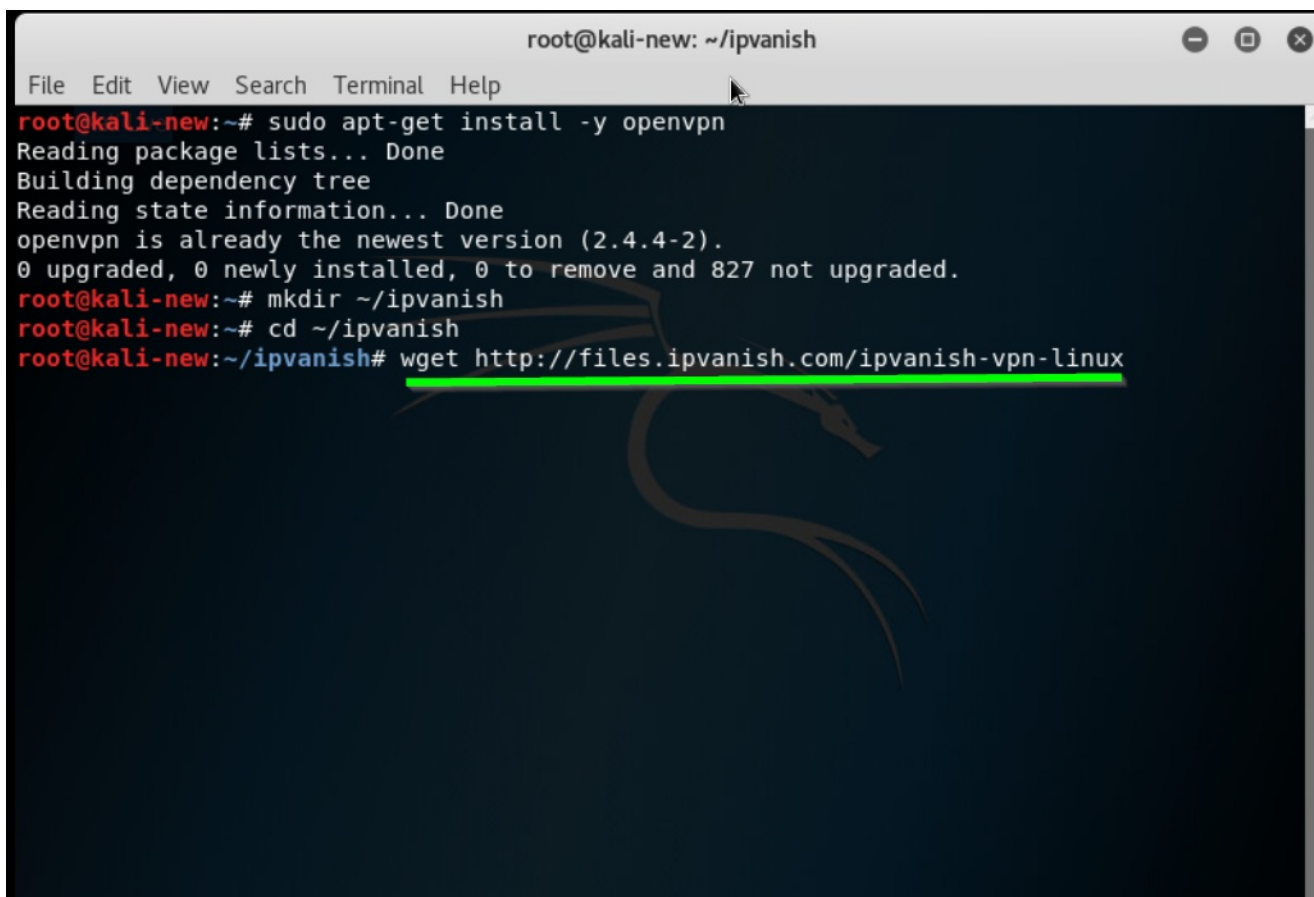


```
root@kali-new: ~  
File Edit View Search Terminal Help  
root@kali-new:~# sudo apt-get install -y openvpn  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
openvpn is already the newest version (2.4.4-2).  
0 upgraded, 0 newly installed, 0 to remove and 827 not upgraded.  
root@kali-new:~# mkdir ~/ipvanish  
root@kali-new:~# cd ~/ipvanish
```

##### 5. Download IPVanish VPN connectivity script for Linux

To download the required IPVanish VPN script for Linux from the repository, type the following command and hit the **Enter** key.

wget <http://files.ipvanish.com/ipvanish-vpn-linux>



```
root@kali-new: ~/ipvanish  
File Edit View Search Terminal Help  
root@kali-new:~# sudo apt-get install -y openvpn  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
openvpn is already the newest version (2.4.4-2).  
0 upgraded, 0 newly installed, 0 to remove and 827 not upgraded.  
root@kali-new:~# mkdir ~/ipvanish  
root@kali-new:~# cd ~/ipvanish  
root@kali-new:~/ipvanish# wget http://files.ipvanish.com/ipvanish-vpn-linux
```

6. Before we can run the IPVanish script, we need to assign executable permission to the IPVanish Linux script.

To assign executable permission to the IPVanish Linux script, type the command below and press Enter:

```
sudo chmod +x ipvanish-vpn-linux
```

```
root@kali-new: ~/ipvanish
File Edit View Search Terminal Help
root@kali-new:~# sudo apt-get install -y openvpn
Reading package lists... Done
Building dependency tree
Reading state information... Done
openvpn is already the newest version (2.4.4-2).
0 upgraded, 0 newly installed, 0 to remove and 827 not upgraded.
root@kali-new:~# mkdir ~/ipvanish
root@kali-new:~# cd ~/ipvanish
root@kali-new:~/ipvanish# wget http://files.ipvanish.com/ipvanish-vpn-linux
--2018-03-20 01:46:29-- http://files.ipvanish.com/ipvanish-vpn-linux
Resolving files.ipvanish.com (files.ipvanish.com)... 205.185.216.10, 205.185.216.42
Connecting to files.ipvanish.com (files.ipvanish.com)|205.185.216.10|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3707 (3.6K) [application/octet-stream]
Saving to: 'ipvanish-vpn-linux'

ipvanish-vpn-linux  100%[=====>]  3.62K  --.-KB/s    in 0s

2018-03-20 01:46:30 (11.9 MB/s) - 'ipvanish-vpn-linux' saved [3707/3707]

root@kali-new:~/ipvanish# sudo chmod +x ipvanish-vpn-linux
root@kali-new:~/ipvanish#
```

## 7. Setting up VPN connection

To set-up the VPN connection, type the following command and press Enter:

```
sudo ./ipvanish-vpn-linux start
```

```
root@kali-new: ~/ipvanish
File Edit View Search Terminal Help
Reading state information... Done
openvpn is already the newest version (2.4.4-2).
0 upgraded, 0 newly installed, 0 to remove and 827 not upgraded.
root@kali-new:~# mkdir ~/ipvanish
mkdir: cannot create directory '/root/ipvanish': File exists
root@kali-new:~# cd ~/ipvanish
root@kali-new:~/ipvanish# wget http://files.ipvanish.com/ipvanish-vpn-linux
--2018-03-20 01:51:31-- http://files.ipvanish.com/ipvanish-vpn-linux
Resolving files.ipvanish.com (files.ipvanish.com)... 205.185.216.42, 205.185.216.10
Connecting to files.ipvanish.com (files.ipvanish.com)|205.185.216.42|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3707 (3.6K) [application/octet-stream]
Saving to: 'ipvanish-vpn-linux'

ipvanish-vpn-linux  100%[=====>]  3.62K  --.-KB/s    in 0s

2018-03-20 01:51:32 (7.55 MB/s) - 'ipvanish-vpn-linux' saved [3707/3707]

root@kali-new:~/ipvanish# sudo chmod +x ipvanish-vpn-linux
root@kali-new:~/ipvanish# sudo ./ipvanish-vpn-linux start
```



The resulting script will run as follows:

### Checking Internet Connection

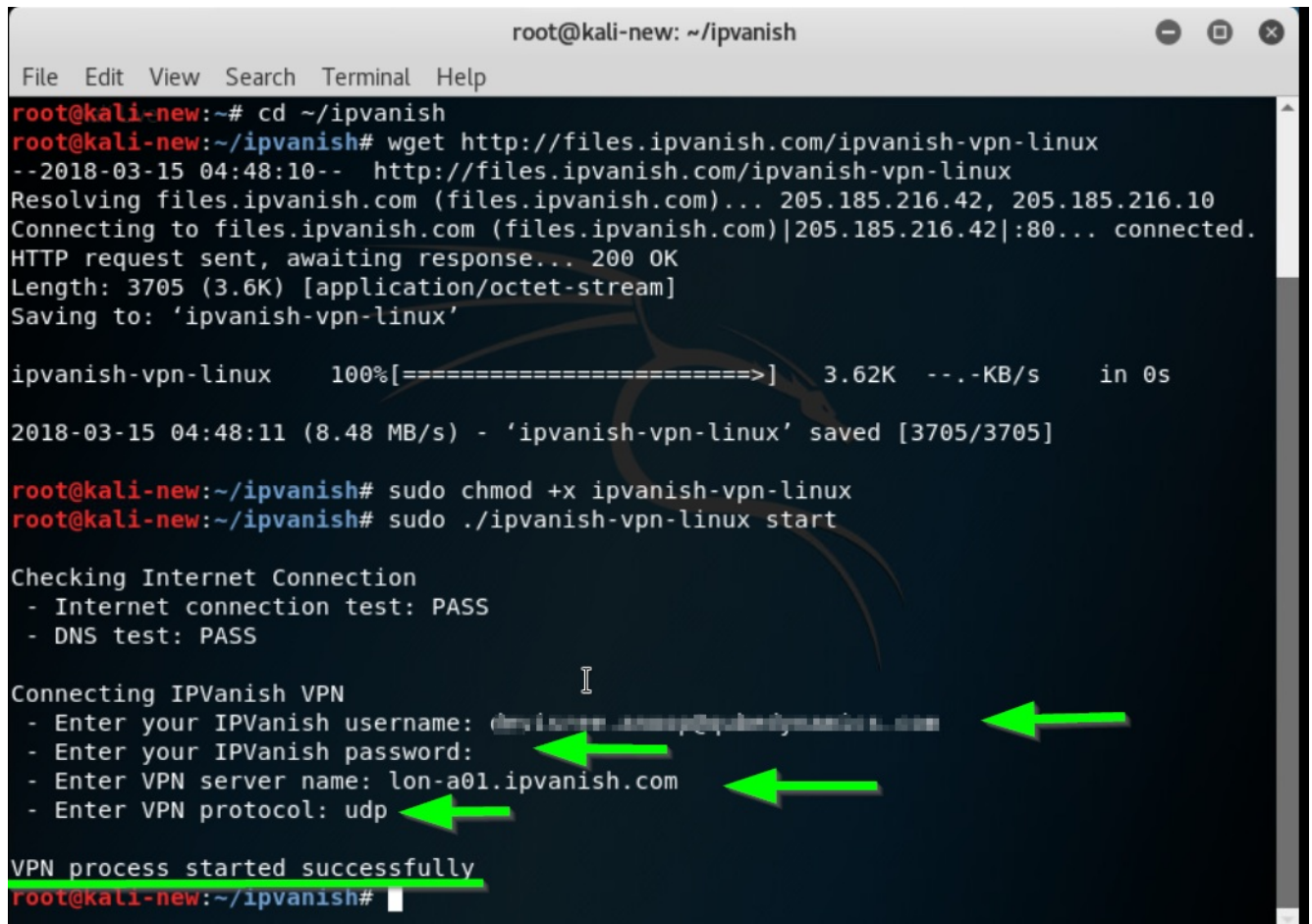
- Internet connection test: PASS
- DNS test: PASS

### 8. Enter the following details as given below:

#### Connecting IPVanish VPN

- **Enter your IPVanish username:** Your IPVanish username
- **Enter your IPVanish password:** Your IPVanish password
- **Enter VPN server name:** Select your preferred server from our [server list](#). E.g., **lon-a01.ipvanish.com**.
- **Enter VPN protocol:** udp

\*Note: The last used server details will be saved except the password filed. Thus, while trying to reconnect using this script, you do not need to provide the same server name again.



```
root@kali-new: ~/ipvanish
File Edit View Search Terminal Help
root@kali-new:~# cd ~/ipvanish
root@kali-new:~/ipvanish# wget http://files.ipvanish.com/ipvanish-vpn-linux
--2018-03-15 04:48:10-- http://files.ipvanish.com/ipvanish-vpn-linux
Resolving files.ipvanish.com (files.ipvanish.com)... 205.185.216.42, 205.185.216.10
Connecting to files.ipvanish.com (files.ipvanish.com)|205.185.216.42|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3705 (3.6K) [application/octet-stream]
Saving to: 'ipvanish-vpn-linux'

ipvanish-vpn-linux  100%[=====>]  3.62K  --.-KB/s    in 0s
2018-03-15 04:48:11 (8.48 MB/s) - 'ipvanish-vpn-linux' saved [3705/3705]

root@kali-new:~/ipvanish# sudo chmod +x ipvanish-vpn-linux
root@kali-new:~/ipvanish# sudo ./ipvanish-vpn-linux start

Checking Internet Connection
- Internet connection test: PASS
- DNS test: PASS

Connecting IPVanish VPN
- Enter your IPVanish username: [redacted]
- Enter your IPVanish password: [redacted]
- Enter VPN server name: lon-a01.ipvanish.com
- Enter VPN protocol: udp

VPN process started successfully
root@kali-new:~/ipvanish#
```

If you see the script display **VPN process started successfully**, you are successfully connected to your preferred IPVanish server.

To confirm that your IP address has changed to anonymous private IPVanish IP, open your favorite web browser and go to <http://whatismyip.com>.

### Disconnecting IPVanish VPN

#### Disconnecting IPVanish VPN

1. To disconnect from IPVanish VPN, type the following commands and hit the **Enter** key after each of them:

```
cd ~/ipvanish
```

```
./ipvanish-vpn-linux stop
```

```
root@kali-new: ~/ipvanish
File Edit View Search Terminal Help
Building dependency tree
Reading state information... Done
openvpn is already the newest version (2.4.4-2).
0 upgraded, 0 newly installed, 0 to remove and 827 not upgraded.
root@kali-new:~# mkdir ~/ipvanish vpn-linux
mkdir: cannot create directory '/root/ipvanish': File exists
mkdir: cannot create directory 'vpn-linux': File exists
root@kali-new:~# cd ~/ipvanish
root@kali-new:~/ipvanish#
root@kali-new:~/ipvanish# wget http://files.ipvanish.com/ipvanish-vpn-linux
--2018-03-19 06:38:50-- http://files.ipvanish.com/ipvanish-vpn-linux
Resolving files.ipvanish.com (files.ipvanish.com)... 205.185.216.10, 205.185.216.42
Connecting to files.ipvanish.com (files.ipvanish.com)|205.185.216.10|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3707 (3.6K) [application/octet-stream]
Saving to: 'ipvanish-vpn-linux.1'

ipvanish-vpn-linux. 100%[=====] 3.62K --.-KB/s in 0s
2018-03-19 06:38:50 (379 MB/s) - 'ipvanish-vpn-linux.1' saved [3707/3707]

root@kali-new:~/ipvanish# sudo chmod +x ipvanish-vpn-linux
root@kali-new:~/ipvanish# sudo ./ipvanish-vpn-linux start

A VPN process with PID 2048 is already running. Aborting..

root@kali-new:~/ipvanish# cd ~/ipvanish
root@kali-new:~/ipvanish# sudo ./ipvanish-vpn-linux stop
```

2.The script “Stopping VPN process with PID # (program ID)” confirms the disconnection of IPVanish VPN.

```
root@kali-new: ~/ipvanish
File Edit View Search Terminal Help
root@kali-new:~# mkdir ~/ipvanish vpn-linux
mkdir: cannot create directory '/root/ipvanish': File exists
mkdir: cannot create directory 'vpn-linux': File exists
root@kali-new:~# cd ~/ipvanish
root@kali-new:~/ipvanish#
root@kali-new:~/ipvanish# wget http://files.ipvanish.com/ipvanish-vpn-linux
--2018-03-19 06:38:50-- http://files.ipvanish.com/ipvanish-vpn-linux
Resolving files.ipvanish.com (files.ipvanish.com)... 205.185.216.10, 205.185.216.42
Connecting to files.ipvanish.com (files.ipvanish.com)|205.185.216.10|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3707 (3.6K) [application/octet-stream]
Saving to: 'ipvanish-vpn-linux.1'

ipvanish-vpn-linux. 100%[=====] 3.62K --.-KB/s in 0s
2018-03-19 06:38:50 (379 MB/s) - 'ipvanish-vpn-linux.1' saved [3707/3707]

root@kali-new:~/ipvanish# sudo chmod +x ipvanish-vpn-linux
root@kali-new:~/ipvanish# sudo ./ipvanish-vpn-linux start

A VPN process with PID 2048 is already running. Aborting..

root@kali-new:~/ipvanish# cd ~/ipvanish
root@kali-new:~/ipvanish# sudo ./ipvanish-vpn-linux stop

Stopping VPN process with PID 2048

root@kali-new:~/ipvanish#
```

If you see any error messages in the resulting output, report them to our [support team](#) for further assistance.