



# SPECIAL MASTER CLASS: VPNS

Securing Your Business and Your Life



# CONNECT ONE NETWORK TO ANOTHER



# ENCRYPT & FORWARD NETWORK TRAFFIC



# AND MOST DEVICES HAVE VPN SUPPORT

## Mobile networks

## Tethering and portable hotspot

Share your device's mobile data connection via USB, Wi-Fi, or Bluetooth

## VPN

Set up and manage Virtual Private Networks (VPNs)

## Media share

## Nearby devices

Settings - General

Restrictions: Off

Date & Time

Keyboard

Language & Region

Dictionary

iTunes Wi-Fi Sync

VPN: Not Connected

Regulatory

Reset

Cancel Add Configuration Done

Type: IKEv2

Description: Required

Server: Required

Remote ID: Required

Local ID

AUTHENTICATION

User Authentication: Username

Username: Required

Password: Ask Every Time

PROXY

Off Manual Auto

Location: Automatic

Status: Not Configured

Configuration: Default

Server Address: Add Configuration...  
Rename: "Default"...

Account Name: Delete "Default"

Encryption: Automatic (128 bit or 40 bit)

Authentication Settings...

Connect

Show VPN status in menu bar

Advanced...

## Edit VPN connection

These changes will take effect the next time you connect.

Connection name

Seed4.Me PPTP (US)

Server name or address

us.seed4.me

VPN type

Point-to-Point Tunneling Protocol (PPTP)

Type of sign-in info

Username and password

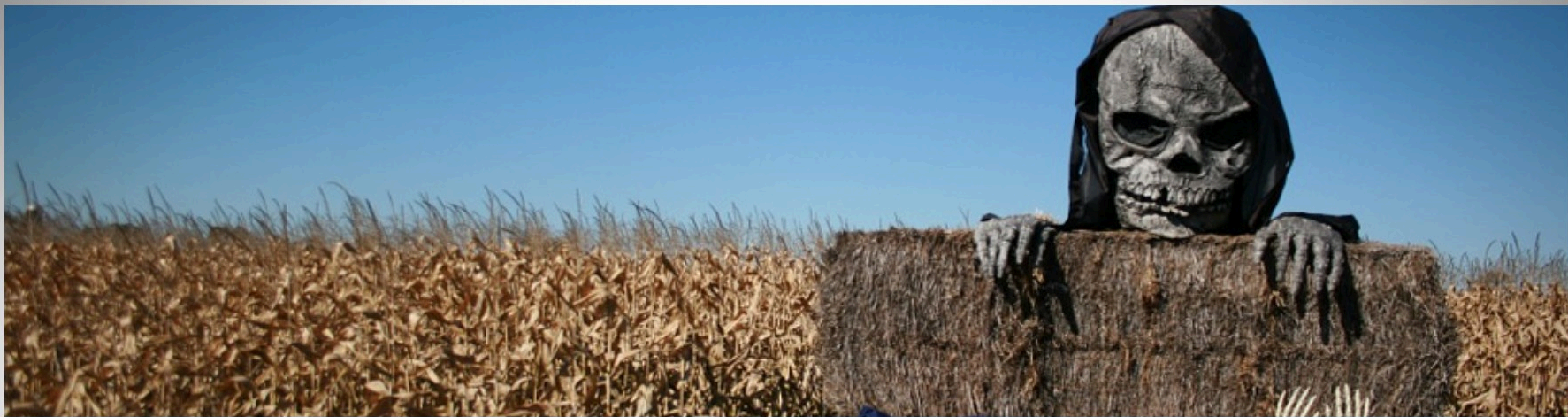
Username (optional)

Your Seed4.Me E-mail

Password (optional)

Your Seed4.Me Password

Remember my sign-in info



# THE SCARY DETAILS



# WHO'S AFTER YOU?

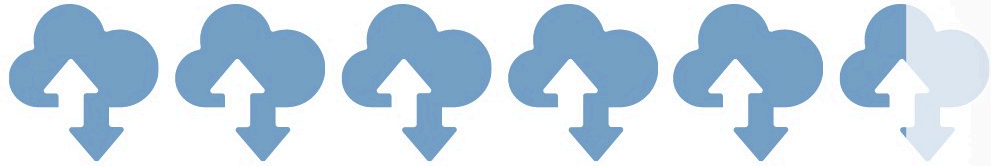
YOUR ISP



# VPN PROVIDERS CAN SEE YOUR DESTINATION TRAFFIC



# 90%



90% of VPN providers are logging





**ANONYMITY  
NOT  
GUARANTEED**

# LIMITED ENCRYPTION



# ENCRYPTION STRENGTH

1 PPTP

2 L2TP/IPSEC

3 OPENVPN™

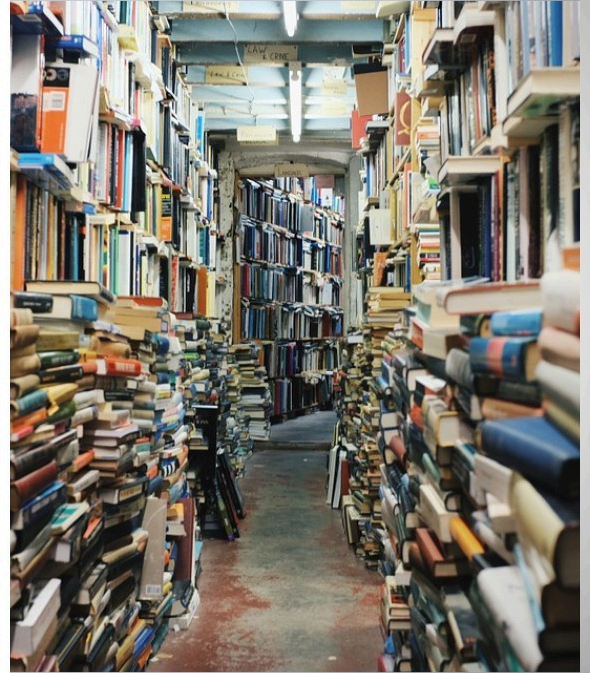
# WHY ARE YOU USING A VPN?



**CIRCUMVENT REGIONAL  
BLOCKING**

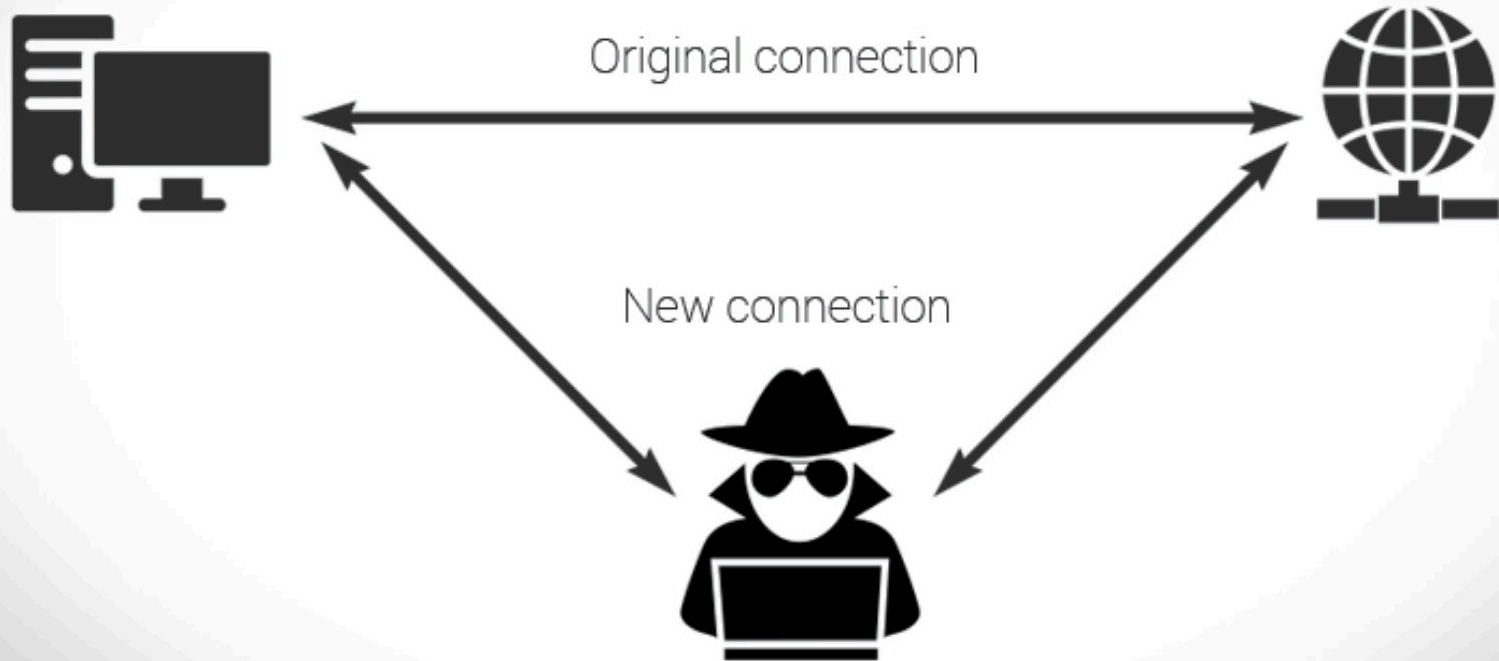


**PROTECTION OF DATA**



**PRIVATE RESEARCH**

# MAN-IN-THE-MIDDLE



Man in the middle, Phisher,  
or anonymous proxy

# YOU'RE LUMPED IN WITH “INTERESTING” PEOPLE





# ADVERTISEMENTS



# TRUST



- AFFILIATES
- PAID PROMOTION
- HIDDEN SPONSORSHIP

VPN SERVICE ▲	PRIVACY Jurisdiction ▲	PRIVACY Logging ▲	PRIVACY Activism ▲	TECHNICAL Serv Conf ▲	TECHNICAL Security ▲	TECHNICAL Availability ▲	BUSINESS Website ▲	BUSINESS Pricing ▲	BUSINESS Ethics ▲
AceVPN	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Red
ActiVPN	Yellow	Yellow	Green	Yellow	Red	Green	Green	Green	Red
AirVPN	Yellow	Yellow	Green	Green	Green	Green	Green	Yellow	Red
Anonine	Green	Yellow	Green	Yellow	Red	Green	Red	Yellow	Yellow
AnonVPN	Red	Green	Yellow	Red	Red	Red	Red	Red	Red
Anonymizer	Red	Green	Yellow	Green	Red	Yellow	Red	Green	Yellow
AnonymousVPN	Green	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Red
Astrill	Green	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Red
Avast Secureline	Yellow	Red	Red	Green	Yellow	Yellow	Green	Yellow	Yellow
Avira Phantom VPN	Yellow	Yellow	Red	Green	Yellow	Yellow	Red	Green	Yellow
▼ VPN SERVICE									

# WHO TO TRUST?

Showing 1 to 10 of 185 entries

« < 1 2 3 4 5 ... 19 > »

**Green** = “Generally good”

**Yellow** = “Something of concern”

**Red** = “Something major of concern”.

**Should i leak a scammers ip address? He thinks if he uses a vpn it ll save him LOL ??**

**— ??Flash Gives?? (@FlashAGod) June 8, 2017**

# MY RESEARCH

RULE 1

# YOU GET WHAT YOU PAY FOR





**“BUILD IT SELF”**

# WHAT I'D NEED



A SERVER



BANDWIDTH



ACCESS



# COSTS TO DO IT MYSELF?

## HIGH USAGE

- 10TB per month
- High Speed
- \$ 1736.97/month

## MODERATE USAGE

- 1TB per month
- Low to Moderate Speed
- \$ 920.26/month

## ALMOST USEFUL

- 1TB per month
- Low Speed
- \$ 94.63/month

## GRANDMA'S EMAIL

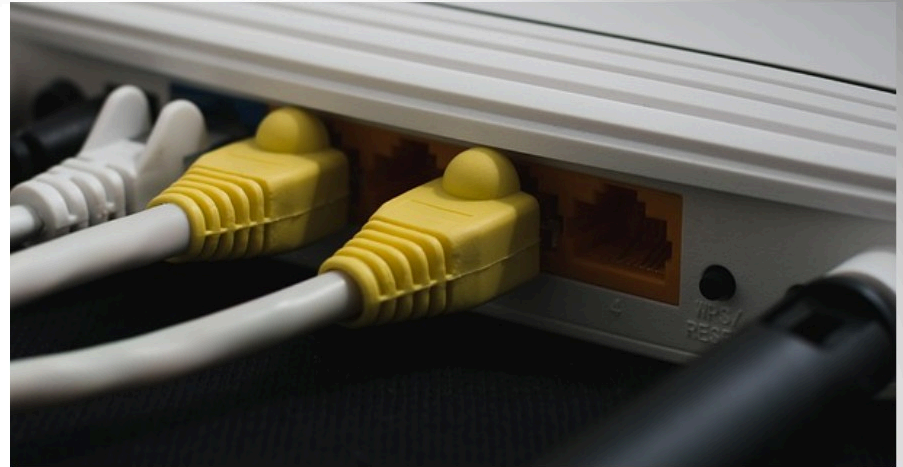
- 100GB per month
- Low Speed
- \$ 11.91/month

RULE 2

# BRING YOUR OWN



# USE YOUR OWN ROUTER





# WITH A STATIC IP ADDRESS

BUT IF YOU CAN'T...

# COMMON DYNAMIC DNS SERVICES

- **FREEDNS**

One of the simplest ways to quickly set yourself up with a Dynamic DNS

- **SECUREPOINT DYNDNS**

Fits seamlessly into the firewall and into other manufacturer's devices. Free.

- **DYNU**

Offers a free version and a paid version, with the paid version having some additional features

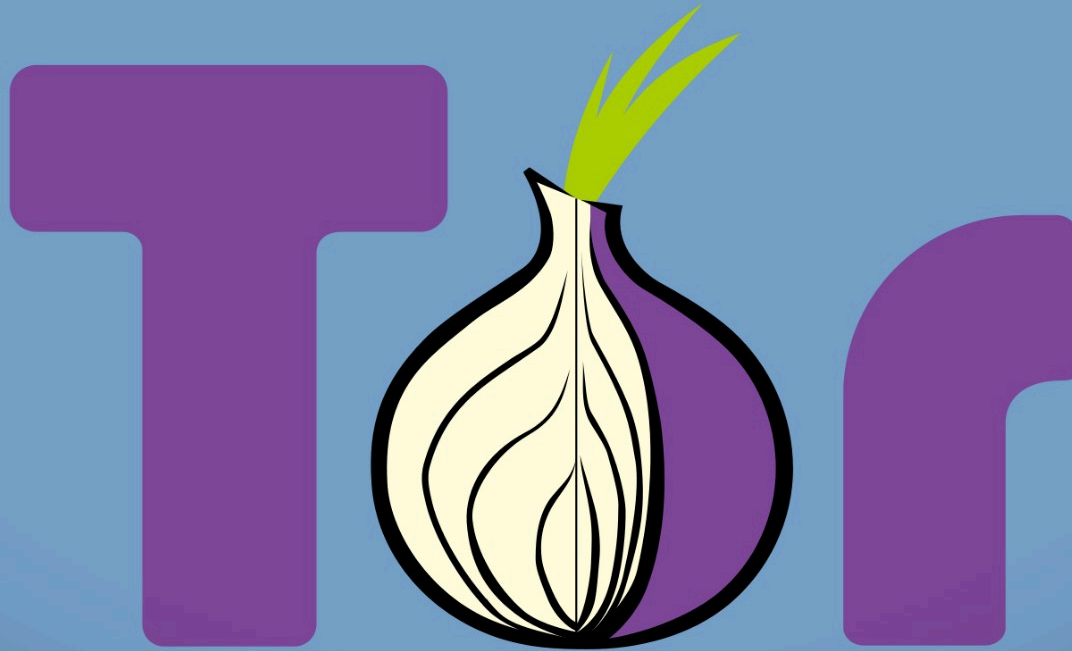
- **NO-IP**

US-based provider. Offers a free package as well as two paid packages.



# Epic Privacy Browser

# THE TOR PROJECT



BUT, IF YOU MUST...



**private**  
internetaccess