参考https://www.jb51.net/article/100452.htm

1、验证内核是否加载了MPPE模块：

#] modprobe ppp-compress-18 && echo MPPE is ok

2、安装所需的软件包：

#] yum -y install ppp

在https://pkgs.org/download/pptpd下载相应的pptpd包

#] rpm -ivh pptpd-1.4.0-2.el7.x86_64.rpm

3、配置PPP和PPTP的配置文件：

#] cat /etc/ppp/options.pptpd

```
1   name pptpd
2   #refuse-pap
3   #refuse-chap
4   #refuse-mschap
5   require-mschap-v2
6   require-mppe-128
7   ms-dns 8.8.8.8
8   ms-dns 8.8.4.4
9   proxyarp
10  lock
11  nobsdcomp
12  novj
13  novjccomp
14  # nologfd
15  logfile /var/log/pptpd.log
```

]# cat /etc/ppp/chap-secrets   // 账号密码

```
1   # Secrets for authentication using CHAP
2   # client server secret IP addresses
3   zhangxf * zhangxf *
```

#] cat /etc/pptpd.conf

```
1   option /etc/ppp/options.pptpd
2   logwtmp
3   localip 192.168.1.243
4   remoteip 192.168.5.100-200
```

4、打开内核的IP转发功能：

#] vim /etc/sysctl.conf

```
1  net.ipv4.ip_forward = 1
```

#] /sbin/sysctl -p

5、配置防火墙和NAT转发

centos7 尝试下面这条规则，先用centos6规则

iptables -t nat -A POSTROUTING -s 192.168.6.0/24 -j SNAT --to-source 192.168.1.243

centos 6 用以下规则

```
1  yum install iptables-services
2  systemctl stop firewalld.service
3  systemctl disable firewalld.service
4  systemctl enable iptables.service
5  systemctl start iptables.service
```

开启包转发：

```
1  iptables -t nat -A POSTROUTING -s 192.168.6.0/24 -o eth0 -j MASQUERADE
2  service iptables save
3  service iptables restart
```

开放端口和gre协议：

```
1  iptables -A INPUT -p tcp -m state --state NEW,RELATED,ESTABLISHED -m tcp --dport 1723 -j ACCEPT
2  iptables -A INPUT -p gre -m state --state NEW,RELATED,ESTABLISHED -j ACCEPT
3  iptables -t nat -A POSTROUTING -s 192.168.6.0/24 -o eth0 -j MASQUERADE
```

添加规则：

```
1  iptables -A INPUT -p gre -j ACCEPT
2  iptables -A INPUT -p tcp -m tcp --dport 1723 -j ACCEPT
3  iptables -A INPUT -m state --state RELATED,ESTABLISHED -j ACCEPT
4  iptables -A FORWARD -s 192.168.6.0/24 -o eth0 -j ACCEPT
5  iptables -A FORWARD -d 192.168.6.0/24 -i eth0 -j ACCEPT
6  iptables -t nat -A POSTROUTING -s 192.168.6.0/24 -o eth0 -j MASQUERADE
7  service iptables save
```

启动和查看服务：

```
1  systemctl start pptpd
2  systemctl enable pptpd
3  systemctl status pptpd
```

6.查看pptpd服务进程和端口：

```
1  #] ps -ef | grep pptpd
2   root 25100 1 0 14:19 ? 00:00:00 /usr/sbin/pptpd -f
3   root 25463 24275 0 14:52 pts/0 00:00:00 grep --color=auto pptpd
4  #] netstat -nutap | grep pptpd
5   tcp 0 0 0.0.0.0:1723 0.0.0.0:* LISTEN 25100/pptpd
```