OpenVPNã•«ã,^ã,‹LANé–“æŽ¥ç¶šVPN

Category : ã,µãƒ¼ãƒ•ç®¡ç•†æ—¥è¨˜
Published by M-naka on 2005/7/8

å¿µé¡˜ã•®LANé–“æŽ¥ç¶šVPNã€•ã•¤ã•„ã•«å®Œæ^•ï¼•

ã€€ã•šã•£ã•¨æ‡¸æ¡^äº‹é …ã•«ã•ªã•£ã•¦ã•„ã•Ÿã€•å®Ÿå®¶ã•¨ã•®LANé–“æŽ¥ç¶šVPNã,'ã•¤ã•„ã•«æ§‹ç¯‰ã•—ã•Ÿã€,

ã€€VPNã•«ã•¯å…·ä½“çš„ã•ªå^©ç”¨å½¢æ…‹ã•§2ã•¤ã•«å¤§å^¥ã••ã,Œã,‹ã€,

ã€€ä¸€ã•¤ã•¯**ãƒªãƒ¢ãƒ¼ãƒˆã,¯ã,»ã,¹VPN**
ã€,å¤–å‡ºå…^ã•‹ã,‰ç¤¾å†…ãƒ•ãƒƒãƒˆãƒ¯ãƒ¼ã,¯ã•«ã,»ã,-ãƒ¥ã,¢ã•«ã,¢ã,¯ã,»ã,¹ã•™ã,‹ã€•ã•¨ã•„ã•†ã•®ã•Œå…¸åž‹ä¾‹ã€,ã•“ã•®å ´å•^ã€•ç¤¾å¤–ãƒ•ãƒƒãƒˆãƒ¯ãƒ¼ã,¯ã•«ã•,ã,‹ç«¯æœ«ã•Œç¤¾å†…ãƒ•ãƒƒãƒˆãƒ¯ãƒ¼ã,¯ä¸Šã•«å-˜åœ¨ã•™ã,‹ã•‹ã•®ã,^ã•†ã•«æŒ¯è^žã•†ã€,PPTPã•Œå…¸åž‹ä¾‹ã•§ã€•ãƒªãƒ¢ãƒ¼ãƒˆã,¯ã,»ã,¹ã•§ã•,ã,‹ã•Œæ•…ã•«ç«¯æœ«æ¯Žã•«æŽ¥ç¶šã•®ã•Ÿã,•ã•®è¨-å®šã•Œå¿…è¦•ã•«ã•¯ã€•2å¹´å‰•ã•«æ—¢ã•«å°Žå…¥æ¸ˆã•§ã•,ã,‹ã€,

ã€€ã,,ã•†ä¸€ã•¤ã•¯**LANé–“æŽ¥ç¶šVPN**
ã€,ã•“ã,Œã•¯ãƒ•ãƒƒãƒˆãƒ¯ãƒ¼ã,¯å•Œå£«ã,'VPNãƒˆãƒ³ãƒ•ãƒ«ã•§çµ•ã•¶ã,,ã•®ã•§ã€•ä¼•æ¥-ã•®æ‹ ç,¹é–“é€šä¿¡ã•«ä½¿ã,•ã,Œã,‹ã•®ã•¯ã•“ã•£ã•¡ã€,ãƒ•ãƒƒãƒˆãƒ¯ãƒ¼ã,¯å•Œå£«ã•ŒæŽ¥ç¶šã••ã,Œã,‹ã•®ã•§ã€•è¨-å®šã•Œå¿…è¦•ã•ªã•®ã•¯VPNã,²ãƒ¼ãƒˆã,¦ã,§ã,¤ã• ã•‘ã•§ã€•ç«¯æœ«æ¯Žã•«ã•¯ä¸•è¦•ã€,ä»Šå›žåˆžå…¥ã•—ã•Ÿã•®ã•¯ã•“ã•£ã•¡ã€,

ã€€å®Ÿéš›ã•®ã•¨ã•“ã,•ã•¯PPTPã•§ã,,LANé–“æŽ¥ç¶šVPNã,'æ§‹ç¯‰ã•§ã••ã,‹ã,^ã•†ã•ªã•®ã• ã•Œã€•PPTPè‡ªä½“ã•ŒLinuxã•®ä¸–ç•Œã•§ã•¯ãƒžã,¤ãƒŠãƒ¼ã•åå-˜åœ¨ã•§ã•,ã,Šã€•èª¬è¨¼ã•ŒCHAPãƒ™ãƒ¼ã,¹ã•ªã•®ã•§å¸¸æ™,æŽ¥ç¶šã•«å‘ã•„ã•¦ã,‹ã•¨ã•¯è¨€ã•„é›£ã•„ã€,Windowsç«¯æœ«æŽ¥ç¶šç”¨ã,µãƒ¼ãƒ•ã•¨ã•—ã•¦ã•¯é•žå¸¸ã•«è‰¯ã•„å•••ã,'ã•™ã,‹ã•Œã€,

ã€€ã•§ã•¯IPSecã•¯ã•©ã•†ã•‹ã•¨ã•„ã•†ã•¨ã€•ã,³ã,¤ãƒ„ã•¯å‹•çš„IPã,¢ãƒ‰ãƒ¬ã,¹ã•¨ã•®è¦ªå'Œæ€§ã•Œé«˜ã••ã•ªã•„ã•®ã•§ã•,ã,‹ã€,ã,«ãƒ¼ãƒ•ãƒ«2.6ã•«å•–ã,Šè¾¼ã•¾ã,Œã•Ÿã•®ã•«ã€•ã•©ã•†ã,,ã•,ã•¾ã,Šæ´»ç"¨ã••ã,Œã•¦ã•„ã•ªã•„æ°—ã•Œã•™ã,‹ã€,ä½¿ã•†ã•«ã•—ã•¦ã,„ãƒ•ãƒ¼ãƒ‰ã,¦ã,§ãƒ«ãƒ¼ã,¿ã•§æ‹ç,¹é–“ï¼^å›ºå®šIPå•Œå£«ã•®ã,¤ãƒ³ã,¿ãƒ¼ãƒ•ãƒƒãƒˆVPNã•‹IP-VPNï¼‰æŽ¥ç¶šã•«ä½¿ã•†ã,¤ãƒ¡ãƒ¼ã,¸ã• ã,•ã•†ã•‹ï¼Ÿã€€ç©•æ¥µçš„ã•«Linuxã•§IPSecã,'ä½¿ã•Šã•†ã•¨ã•„ã•†å‹•ã••ã•¯ã•,ã•¾ã,Šè¦‹ã,‰ã,Œã•ªã•„ã•ªã••ã€,

ã€€ã•§ã€•OpenVPNã€,ã,³ã,¤ãƒ„ã•¯Windowsã€•MacOSã€•Linuxã€•*BSDã•§å‹•ä½œã•—ã€•OpenSSLãƒ©ã,¤ãƒ–ãƒ©ãƒªã•§æš—å•·åŒ–ã,'è¡Œã•†ã€,ãƒªãƒ¢ãƒ¼ãƒˆã,¢ã,¯ã,»ã,¹VPNã,,LANé–“æŽ¥ç¶šVPNã,,ã,µãƒ•ãƒ¼ãƒˆã€,ã•Šã•¾ã•‘ã•«DynamicDNSã•®ãƒ›ã,¹ãƒˆé–“ã•§ã,„ãƒ•ãƒ•ãƒ•ãƒªä½¿ã•^ã,‹ã•¨ã•„ã•†ã,¹ã,°ãƒ¬ãƒžã€,æµ•çŸ³ã•«ãƒªãƒ¢ãƒ¼ãƒˆã,¢ã,¯ã,»ã,¹VPNã•«ã•¯å°,ç"¨ã•®æŽ¥ç¶šã,½ãƒ•ãƒˆã•Œå¿…è¦•ã• ã•Œã€•OpenVPNè‡ªä½“ã•®ã,¢ãƒ‰ãƒ•ãƒ³ãƒ†ãƒ¼ã,¸ã•Œå¤§ã••ã•„ã•®ã•§ã•,ã•¾ã,Šæ°—ã•«ã•ªã,‰ã•ªã•„ã€,

ã€€»Šå›žã•¯å®Ÿå®¶ã•¨è‡ªå®…ã€•Omoikaneã•¨Casperã,'OpenVPNã•§çµ•ã•³ã€•LANé–“æŽ¥ç¶šVPNã,'æ§‹ç¯‰ã•—ã•Ÿã€,è‡ªå®…å´ã,'Amatsuã•§ã•¯ã•ªã••Casperã•«ã•—ã•Ÿã•®ã•¯è² è··å^†æ•£ã•®ã•Ÿ

ã,•ã€,æŽ¥ç¶šãƒ¢ãƒ¼ãƒ‰ã•«ã•¯ãƒ–ãƒªãƒƒã,¸ãƒ¢ãƒ¼ãƒ‰ã•¨ãƒ«ãƒ¼ãƒ†ã,£ãƒ³ã,°ãƒ¢ãƒ¼ãƒ‰ã•®2ç¨®é¡žã•Œã•,ã,Šã€•ã•"ã•®ã•†ã•¡ãƒ«ãƒ¼ãƒ†ã,£ãƒ³ã,°ãƒ¢ãƒ¼ãƒ‰ã,'é•¸æŠžã€,

ã€•ï¼•ã€'ã,«ãƒ¼ãƒ•ãƒ«ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«ã•®ç¢ºèª•ã•¨ãƒ•ãƒ¼ãƒˆãƒžãƒƒãƒ"ãƒ³ã,°è¨-å®š

ã€€OpenVPNã•§ã•¯tunï¼^ãƒ¬ã,¤ãƒ¤ï¼‰ã•‹tapï¼^ãƒ¬ã,¤ãƒ¤2ï¼‰ã,'ä½¿ã•†ã•®ã•§ã€•ã•"ã,Œã•Œã,«ãƒ¼ãƒ•ãƒ«ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«ã•¨ã•—ã•¦ä½œæ^•ã••ã,Œã•¦ã•„ã,‹ã•‹ã,'ç¢ºèª•ã•™ã,‹ã€,

```
#modprobe tun
#modprobe tap
```

ã•§ã,¨ãƒ©ãƒ¼ã•Œå‡ºã•ªã•'ã,Œã•°OKã€,ã,¨ãƒ©ãƒ¼ã•Œå‡ºã,‹ã•¨ã••ã•¯ã,«ãƒ¼ãƒ•ãƒ«ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«ã•Œã•ªã•„ã•®ã•§ã€•ã,«ãƒ¼ãƒ•ãƒ«ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«ã•¨ã,«ãƒ¼ãƒ•ãƒ«ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«ã,'ä½œã,Šç›´ã•™ã€,

ã€€OpenVPNã•§ä½¿ã•†ã•®ã•¯5000/TCPã•¨5000/UDPã• ã•‹ã,‰ã€•ã•"ã,Œã•Œmythril.ne.jpå•´ã•¨mythril.jpå•´ã•§ã••ã,Œã•žã,ŒCasperã•¨Omoikaneã•«ãžãƒƒãƒ"ãƒ³ã,°ã••ã,Œã,‹ã,^ã•†ã€•ADSLãƒ¢ãƒ‡ãƒ«ã•«ãƒ•ãƒ¼ãƒˆãžãƒƒãƒ"ãƒ³ã,°è¨-å®šã,'ä»•è¾¼ã,€ã€,

ã€•ï¼'ã€'OpenVPNã•®ã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«

ã€€ã•¾ã•šã•¯é–¢é€£ãƒ©ã,¤ãƒ–ãƒ©ãƒªã•‹ã,‰ã€,OpenSSLã•¨LZOã,'ã••ã,Œã•žã,Œã•®develãƒ'ãƒƒã,±ãƒ¼ã,¸ã,,ä¸€ç·'ã•«ã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«ã•™ã,‹ã€,OpenSSLã•¯è¨€ã,•ã•šã,,ã•Œã•ªã•®æš—å•·åŒ–ãƒ©ã,¤ãƒ–ãƒ©ãƒªã•§ã€•LZOã•¯åœ§ç¸®ãƒ©ã,¤ãƒ–ãƒ©ãƒªã€,LZOã•¯OpenVPNã,'ä½¿ã•†ä¸Šã•§ã•¯ã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«ä¿…é ˆã•§ã•¯ã•ªã•„ã•Œã€•ã,¹ãƒ«ãƒ¼ãƒ—ãƒƒãƒˆå•'ä¸Šã•®ã•Ÿã,•ã•«ã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«ã•—ã•¦ã•Šã••ã€,

ã€€æœ€æ–°ç‰ˆã•¯2.0ã•§ã€•OpenVPNã•®ã,¦ã,§ãƒ–ã,µã,¤ãƒˆ
ã•‹ã,‰tarãƒœãƒ¼ãƒ«ã,'ãƒ€ã,¦ãƒ³ãƒ-ãƒ¼ãƒ‰å•¯èƒ½ã€,ã•"ã,Œã•«ã•¯RPMãƒ'ãƒƒã,±ãƒ¼ã,¸ä½œæ^•ç"¨ã•®SPECãƒ•ã,¡ã,¤ãƒ«ã•Œå…¥ã•£ã•¦ã•„ã,‹ã•®ã•§ã€•

```
#rpmbuild -tb [OpenVPNã•®ãƒ'ãƒƒã,±ãƒ¼ã,¸]
```

ã•§RPMãƒ'ãƒƒã,±ãƒ¼ã,¸ã,'ä½œæ^•ã•§ã••ã,‹ã€,ã•,ã•¨ã•¯rpmã,³ãƒžãƒ³ãƒ‰ã•§ã•„ã•¤ã,„ã•©ã•Šã,Šã,¤ãƒ³ã,¹ãƒˆãƒ¼ãƒ«ã•—ã•¦ã„ã,Œã•°ã,^ã•„ã€,

ã€•ï¼'ã€'OpenVPNã•®è¨-å®š

ã€€ã,»ã,-ãƒ¥ãƒªãƒ†ã,£ãƒ¬ãƒ™ãƒ«ã•¯TLSã,'å^©ç"¨ã•—ã•Ÿæ–¹ã•Œä¸Šã• ã•Œã€•ã•¾ã•šã•¯ã•Šæ‰‹è»½ã•ªä°‹å‰•å…±æœ‰é•µã,'ä½¿ã•£ã•¦ã•¿ã,‹ã€,ä»¥ã,‹ã•®ã,³ãƒžãƒ³ãƒ‰ã•§ä°‹å‰•å…±æœ‰é•µã,'作æ^•ã•™ã,‹ã€,

```
#openvpn --genkey --secret [ä»»æ„•ã•®ä°‹å‰•å…±æœ‰é•µå••]
#chmod 600 [ä°‹å‰•å…±æœ‰é•µ]
```

è¨-å®šã•¯Casperã•ã•"ã,"ã•ªæ„Ÿã•˜ã•§ã€•Omoikaneã•¯ã•"ã,"ã•ªæ„Ÿã•˜
ã•§ã•,ã,‹ã€,ifconfigã•¨routeã•®è¨-å®šã„OpenVPNã•®è¨-å®šãƒ•ã,¡ã,¤ãƒ«å†…ã•«æ›¸ã•'ã•°OKã€,

ãƒ»Casperã•¯192.168.1.0/24ã€•Omoikaneã•¯192.168.2.0/24ã€,
ãƒ»Casperã•¨Omoikaneã,'172.16.1.0/24ã•®VPNãƒˆãƒ³ãƒ•ãƒ«ã•§çµ•ã•¶ã€,
ãƒ»Casperã•®tun0ã•«ã•¯172.16.1.1ã,'ã€•Omoikaneã•®tun0ã•«ã•¯172.16.1.2ã,'å‰²ã,Šä»˜ã•'ã,‹ã€,
ãƒ»Casperã•«ã•¯192.168.2.0/24ã•¸ã•®ã,²ãƒ¼ãƒˆã,¦ã,§ã,¤ã•¨ã•—ã•¦172.16.1.2ã,'ã€•Omoikaneã•«ã•¯1
92.168.1.0/24ã•¸ã•®ã,²ãƒ¼ãƒˆã,¦ã,§ã,¤ã•¨ã•—ã•¦172.16.1.1ã,'ã€•ã••ã,Œã•žã,Œãƒ«ãƒ¼ãƒ†ã,£ãƒ³ã,°è
¨-å®šã€,
ã€€

ã€•ï¼“ã€'iptablesã•®è¨-å®š

ã€€/etc/sysconfig/iptablesã•«ä»¥ä¸‹ã,'åŠ ç-†ã€,

##Casper##
#tunã,'192.168.1.0/24ã•«ãƒžã,¹ã,«ãƒ¬ãƒ¼ãƒ‰
-A POSTROUTING -o tun0 -s 192.168.1.0/24 -j MASQUERADE
#eth0ã,'172.16.1.0/24ã•«ãƒžã,¹ã,«ãƒ¬ãƒ¼ãƒ‰
-A POSTROUTING -o eth0 -s 172.16.1.0/24 -j MASQUERADE
#tap0ã•¨tun0ã,'ãƒ•ã,©ãƒ¯ãƒ¼ãƒ‰
-A FORWARD -i tap0 -j ACCEPT
-A FORWARD -i tun0 -j ACCEPT
#tap0ã•¨tun0ã•®ãƒ‘ã,±ãƒƒãƒˆã•®é€šé•Žã,'è¨±å•¯
-A RH-Firewall-1-INPUT -i tap0 -j ACCEPT
-A RH-Firewall-1-INPUT -i tun0 -j ACCEPT
#OpenVPNã•§ä½¿ã•†TCPãƒ•ãƒ¼ãƒˆ5000ç•ªã•¨UDPãƒ•ãƒ¼ãƒˆ5000ç•ªã•®ãƒ‘ã,±ãƒƒãƒˆã•®é€šé•Žã
,'è¨±å•¯
-A RH-Firewall-1-INPUT -m state --state NEW -m tcp -p tcp --dport 5000 -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state NEW -m udp -p udp --dport 5000 -j ACCEPT

##Omoikane##
#tunã,'192.168.2.0/24ã•«ãƒžã,¹ã,«ãƒ¬ãƒ¼ãƒ‰
-A POSTROUTING -o tun0 -s 192.168.2.0/24 -j MASQUERADE
#br0ã,'172.16.1.0/24ã•«ãƒžã,¹ã,«ãƒ¬ãƒ¼ãƒ‰
-A POSTROUTING -o br0 -s 172.16.1.0/24 -j MASQUERADE
#tap0ã•¨tun0ã,'ãƒ•ã,©ãƒ¯ãƒ¼ãƒ‰
-A FORWARD -i tap0 -j ACCEPT
-A FORWARD -i tun0 -j ACCEPT
#tap0ã•¨tun0ã•®ãƒ‘ã,±ãƒƒãƒˆã•®é€šé•Žã,'è¨±å•¯
-A RH-Firewall-1-INPUT -i tap0 -j ACCEPT
-A RH-Firewall-1-INPUT -i tun0 -j ACCEPT
#OpenVPNã•§ä½¿ã•†TCPãƒ•ãƒ¼ãƒˆ5000ç•ªã•¨UDPãƒ•ãƒ¼ãƒˆ5000ç•ªã•®ãƒ‘ã,±ãƒƒãƒˆã•®é€šé•Žã
,'è¨±å•¯
-A RH-Firewall-1-INPUT -m state --state NEW -m tcp -p tcp --dport 5000 -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state NEW -m udp -p udp --dport 5000 -j ACCEPT

ã€€æœ€å^•Omoikaneã•®br0ã,'eth0ã•«ã•—ã•¦ã•Šã•„ã•Ÿã•®ã• ã•Œã€•ã•“ã,Œã• ã•¨ãƒ‘ã,±ãƒƒãƒˆã•Œ
Omoikaneã,^ã,Šå…^ã•«è¡Œã•‹ã•ªã•„ã€,å®Ÿéš›ã•«ç"Ÿã••ã•¦ã,‹ãƒ•ãƒƒãƒˆãƒ¯ãƒ¼ã,¯ã,¤ãƒ³ã,¿ãƒ¼ã
ƒ•ã,§ãƒ¼ã,¹ã•¯br0ã• ã•‹ã,‰ã€•ã•“ã,Œã,'å‰²ã,Šä»˜ã•'ã•ªã•„ã•¨ã•„ã•'ã•ªã•„ã€,ã•“ã,Œæ°—ã•¥ã•‹ã•šæš
«ã••ãƒ•ãƒžã•£ã•Ÿã€,

ã€•ï¼”ã€‘ãƒ‡ãƒ•ã‚©ãƒ«ãƒˆã‚²ãƒ¼ãƒˆã‚¦ã‚§ã‚¤ã•ã¸ã•®é•™çš„ãƒ«ãƒ¼ãƒ†ã‚£ãƒ³ã‚°è¨å®š

ã€€iptablesã•®è¨å®šã•¾ã•§çµ‚ã•ˆã‚Œã•°LANé–“æŽ¥ç¶šVPNã•¨ã•—ã•¦ã•¯ä¸€å¿œä½¿ã•ˆã‚‹ã•®ã• ã•Œã€•ç«¯æœ«æ¯Žã•«ãƒ«ãƒ¼ãƒ†ã‚£ãƒ³ã‚°ã•®è¨å®šã‚’ä»•è¾¼ã•¾ã•ªã•„ã•¨ä¸Šæ‰‹ã••ãƒ‘ã‚±ãƒƒãƒˆã•Œæµ•ã‚Œã•ªã•„ã€‚ã••ã‚Œã•§ã•¯é•¢å€’ã•ªã•®ã•§ã€•ã••ã‚Œã•žã‚Œã•®LANã•®ãƒ‡ãƒ•ã‚©ãƒ«ãƒˆã‚²ãƒ¼ãƒˆã‚¦ã‚§ã‚¤ï¼ˆADSLãƒ¢ãƒ‡ãƒ ï¼‰ã•«é•™çš„ãƒ«ãƒ¼ãƒ†ã‚£ãƒ³ã‚°ã•®è¨å®šã‚'åŠ ã•ˆã‚‹ã€‚

ãƒ»Casperå•´
ã€€192.168.2.0/24ã•®ã‚²ãƒ¼ãƒˆã‚¦ã‚§ã‚¤ã•¯192.168.2.80ï¼ˆOmoikaneï¼‰

ãƒ»Omoikaneå•´
ã€€192.168.1.0/24ã•®ã‚²ãƒ¼ãƒˆã‚¦ã‚§ã‚¤ã•¯192.168.1.30ï¼ˆCasperï¼‰

ã€€ã••ã‚Œã•žã‚Œã€•VPNã•®å•'ã•"ã•†å•´ã•¸ã•®é€šä¿¡ã•¯VPNã‚²ãƒ¼ãƒˆã‚¦ã‚§ã‚¤ï¼ˆCasperã•‹Omoikaneï¼‰ã•«æŠ•ã•'ã‚‰ã‚Œã‚‹ã‚ˆã•†ã•«ã•ªã‚‹ã€‚ã•"ã‚Œã‚'ãƒ‡ãƒ•ã‚©ãƒ«ãƒˆã‚²ãƒ¼ãƒˆã‚¦ã‚§ã‚¤ã•«ä»•è¾¼ã‚•ã•°ã€•LANé…•ä¸‹ã•«ã••ã‚‹å…¨ç«¯æœ«ã•«è¿½åŠ ã•§è¨å®šã‚'åŠ ã•ˆã‚‹å¿…è¦•ã•ªã•ªã••ã•ªã‚‹ã€‚

ã€•ï¼•ã€'DNSã‚µãƒ¼ãƒ•ã•®ãƒ•ã‚©ãƒ¯ãƒ¼ãƒ‰è¨å®šã•¨ãƒªã‚¾ãƒ«ãƒ•ã•®å†•è¨å®š

ã€€é•™çš„ãƒ«ãƒ¼ãƒ†ã‚£ãƒ³ã‚°ã•¾ã•§ä»•è¾¼ã‚•ã•°IPã‚¢ãƒ‰ãƒ¬ã‚¹ãƒ™ãƒ¼ã‚¹ã•§é€šä¿¡å•¯èƒ½ã•«ã•ªã•£ã•¦ã•„ã‚‹ã•Œã€•mythril.ne.jpã‚¾ãƒ¼ãƒ³ã•¨mythril.jpã‚¾ãƒ¼ãƒ³ã•§è‡ªå‰ˆã•¨ã•¯ç•°ã•ªã‚‹ã‚¾ãƒ¼ãƒ³ã•«ã•‚ã‚‹ãƒ›ã‚¹ãƒˆå••ã•®å••å‰•è§£æ±ºã•Œã•§ã••ã•ªã•„ã€‚ã•"ã‚Œã•¯å•Œæ–¹ã•«è¨ç½®ã••ã‚Œã•¦ã•„ã‚‹DNSã‚µãƒ¼ãƒ•ã•«ã‚„ã•†ä¸€æ–¹ã•®ã‚¾ãƒ¼ãƒ³ã‚'æ–°è¦•ã•«è¨å®šã•—ã•¦ã‚„ã‚Œã•°è§£æ±ºã•™ã‚‹ã€‚ã•—ã•‹ã•—ã•"ã‚Œã•§ã•¯é•žå¸¸ã•«é•¢å€'ã•ªã•®ã•§ã€•ã•Šæ‰‹è»½ã•ªè§£æ±ºæ³•ã•¨ã•—ã•¦ã€•ç•°ã•ªã‚‹ã‚¾ãƒ¼ãƒ³ã•®å••å‰•è§£æ±ºã•¯ã••ã‚Œã•Œå±žã•™ã‚‹ã‚¾ãƒ¼ãƒ³ã•®DNSã‚µãƒ¼ãƒ•ã•«ãƒ•ã‚©ãƒ¯ãƒ¼ãƒ‰ã‚'æŽ›ã•'ã‚‹ã‚ˆã•†ã•«ã•—ã•Ÿã€‚

ãƒ»mythril.ne.jpï¼ˆ192.168.1.0/24ï¼‰å•´ã•®è¨å®š
ã€€å••å‰•è§£æ±ºå¯¾è±¡ã•Œmythril.jpã•®ã•¨ã••ã•®ã•¿Omoikaneã•«ãƒ•ã‚©ãƒ¯ãƒ¼ãƒ‰ã€•172.16.1.0/24ã•‹ã‚‰ã•®ã‚¯ã‚¨ãƒªè¦•æ±‚ã‚'è¨±å•¯ã€‚

ãƒ»mythril.jpï¼ˆ192.168.2.0/24ï¼‰å•´ã•®è¨å®š
ã€€å••å‰•è§£æ±ºå¯¾è±¡ã•Œmythril.ne.jpã•®ã•¨ã••ã•®ã•¿Casperã•«ãƒ•ã‚©ãƒ¯ãƒ¼ãƒ‰ã€•ã€•172.16.1.0/24ã•‹ã‚‰ã•®ã‚¯ã‚¨ãƒªè¦•æ±‚ã‚'è¨±å•¯ã€‚

ã€€å…·ä½"çš„ã•«ã•¯ä»¥ä¸‹ã•®è¨˜è¿°ã‚'/etc/named.confï¼ˆã‚‚ã•—ã••ã•¯/var/named/chroot/etc/named.confï¼‰ã•«åŠ ã•ˆã‚‹ã€‚

```
zone "ãƒ•ã‚©ãƒ¯ãƒ¼ãƒ‰ã‚'æŽ›ã•'ã‚‹ãƒ‰ãƒ¡ã‚¤ãƒ³" {
        type forward;
        forwarders {ãƒ•ã‚©ãƒ¯ãƒ¼ãƒ‰å…ˆDNSã‚µãƒ¼ãƒ•IPã‚¢ãƒ‰ãƒ¬ã‚¹;};
};
```

ã€€é€†å¼•ã••ã•¯ä¸•è¦•ã• ã•‹ã‚‰ã€•ã••ã‚Œã•žã‚ŒVPNå…ˆã•®ãƒ›ã‚¹ãƒˆå••ã‚'å••å‰•è§£æ±ºã•§ã••ã‚Œã•°ã‚ˆã•„ã€‚

â€»ãƒ•ã‚©ãƒ¯ãƒ¼ãƒ‰å¯¾è±¡ã‚'é™•å®šã•—ã•ªã•„ã•¨ã€•è‡ªå‰ˆã•§å••å‰•è§£æ±ºã•§ã••ã•ªã•„ãƒ›ã‚¹ã

ƒˆå••ã,'å…¨ã•¦ãƒ•ã,©ãƒ¯ãƒ¼ãƒ‰ã•—ã•¦ã•—ã•¾ã•„ï¼ˆï¼•æ¯Žå›žVPNè¶Šã•—ã•«å••å‰•è§£æ±ºã••ã,Œã,‹ï¼‰ã€•DNSå¿œç-”ã•®ãƒ'ãƒ•ã,©ãƒ¼ãƒžãƒ³ã,¹ã•Œè'—ã•—ã••ä½Žä¸‹ã•™ã,‹ã€,

ã€€ã,¯ã,¨ãƒªè¦•æ±,ã•®è¨±å•¯ã•¯/etc/named.confã•§allowãƒ‡ã,£ãƒ¬ã,¯ãƒ†ã,£ãƒ–ã•«ãƒ•ãƒƒãƒˆãƒ¯ã,¯ã,¢ãƒ‰ãƒ¬ã,¹ã,'åŠ ã•^ã,‹ã•®ã•¿ã€,æœ€å^•ã•¯ã•"ã•"ã,'192.168.1.0/24ã•¨192.168.2.0/24ã•«ã•—ã•Ÿã•®ã• ã•Œã€•ã,¯ã,¨ãƒªè¦•æ±,ã•¯172.16.1.0/24ã•§å‡ºã••ã,Œã•¦ã•„ã,‹ï¼^â€»ã,¨ãƒ©ãƒ¼ãƒ-ã,°ã•§æŠŠæ•¡ï¼‰ã•®ã•§ã€•ã•"ã•®ã,^ã•†ã•ªè¨-å®šã•«ã•ªã,‹ã€,

ã€€ã•,ã•¨ã•¯ãƒªã,¾ãƒ«ãƒ•ï¼^/etc/resolv.confï¼‰ã•§å•Œæ–¹ã•®ã,¾ãƒ¼ãƒ³ã•®ãƒ—ãƒ¬ãƒ•ã,£ãƒƒã,¯ã,¹ã•¨DNSã,µãƒ¼ãƒ•ã,'è¿½è¨˜ã•™ã,Œã•°ã,^ã•„ã€,

search mythril.ne.jp
search mythril.jp
nameserver 192.168.1.120
nameserver 192.168.1.30
nameserver 192.168.2.80

ã•"ã,Œã•§OKã€,ãƒ›ã,¹ãƒˆã•«ã,^ã•£ã•¦ãƒ—ãƒ¬ãƒ•ã,£ãƒƒã,¯ã,¹ã•¨ãƒ•ãƒ¼ãƒ ã,µãƒ¼ãƒ•ã•®è¨˜è¿°ã•®ä¸Šä¸‹é–¢ä¿‚ã•Œè‹¥å¹²ç•°ã•ªã,‹ã•Œã€•ã•"ã•®è¨˜è¿°ã•Œå…¨ã•¦å…¥ã•£ã•¦ã•„ã,Œã•°åŸºæœ¬çš„ã•«å••é¡Œã•ªã•„ã€,

ã€€ã•"ã•"ã•¾ã•§ã•™ã,‹ã•¨ã€•ãƒ›ã,¹ãƒˆå••ãƒ™ãƒ¼ã,¹ã•§VPNè¶Šã•—ã•®é€šä¿¡ã•Œã•§ã••ã,‹ã,^ã•†ã•«ã•ªã,‹ã€,ãƒ•ãƒƒã,¯ã,°ãƒ©ã,¦ãƒ³ãƒ‰ã•§å‹•ä½œã•—ã•¦ã•„ã,‹ã•®ã•§ã€•VPNã,'æ„•è-˜ã•™ã,‹ã•"ã•¨ã•ªã••ä½¿ã•^ã,‹ã€,è‡ªå®…LANå†…ãƒ›ã,¹ãƒˆã•¨å•Œæ§˜ã•®å‹•ä½œã•§å®Ÿå®¶ã•®ãƒªã,½ãƒ¼ã,¹ã,'ä½¿ã•^ã,‹ã,^ã•†ã•«ã•ªã•£ã•Ÿï¼^é€†ã„ç„¶ã,Šï¼‰ã•®ã•§ã€•é —ã,‹ä¾¿åˆ©ã• ã€,