

```

!This is the running config of the router: 142.177.198.138
!-----
!version 12.4
no service pad 'not sure what this command does
service tcp-keepalives-in ' keeps idle inbound connections active / alive
service tcp-keepalives-out 'keeps idle outbound connections active / alive
service timestamps debug datetime msec localtime show-timezone 'timestamp debugging
logs with local date/time
service timestamps log datetime msec localtime show-timezone ' timestand logs with
local date/time
service password-encryption ' tells the router to encrypt passwords
service sequence-numbers 'adds sequencing #'s to logs
!
hostname Zesta 'routers name
!
boot-start-marker 'These are used for boot configuration changes (Flag on/off)
boot-end-marker ' ^^
!
logging buffered 51200 'logs kept in local buffer, buffer size set to #
logging console critical 'send all critical messages to VTY Lines
enable secret 5 $1$Ef2Q$GbvNJp.K17IVfI6e39eJF. 'Secret configuration password
!
aaa new-model
!
!
aaa authentication login default local
aaa authentication login sdm_vpn_xauth_ml_1 local
aaa authorization exec default local
aaa authorization network sdm_vpn_group_ml_1 local
!
!
aaa session-id common
clock timezone PCTime -4
clock summer-time PCTime date Apr 6 2003 2:00 Oct 12 2003 12:00
!
crypto pki trustpoint TP-self-signed-1965494646
enrollment selfsigned
subject-name cn=IOS-Self-Signed-Certificate-1965494646
revocation-check none
rsa-keypair TP-self-signed-1965494646
!
!
crypto pki certificate chain TP-self-signed-1965494646
certificate self-signed 01
3082024F 308201B8 A0030201 02020101 300D0609 2A864886 F70D0101 04050030
31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D 43657274

```

```
69666963 6174652D 31393635 34393436 3436301E 170D3038 30383039 31313439
32355A17 0D323030 31303130 30303030 305A3031 312F302D 06035504 03132649
4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D31 39363534
39343634 3630819F 300D0609 2A864886 F70D0101 01050003 818D0030 81890281
8100D010 A7D4624D ACE672ED 75CEBE74 CDEDBD2D 90EB0940 1E83FACB
E5E6623D
78AE316B 6AD601E9 71C04BDF 4D67DC99 094E92AC 66F4A748 AC3ED1AD
2E4B8EAB
A1112B22 311A1AA5 5864FDD5 4DC97500 8772B52F E6EF5A05 830584CE
B2A845AB
AD04BFF3 C3AC1FA4 3CAF1D79 96E4CCCB 0D3F3E18 0AFDD935 E089AC63
FDE2796F
54AD0203 010001A3 77307530 0F060355 1D130101 FF040530 030101FF 30220603
551D1104 1B301982 17796F75 726E616D 652E796F 7572646F 6D61696E 2E636F6D
301F0603 551D2304 18301680 1451AF2C B0584620 FAC46036 EB685B22
FC4F536F
89301D06 03551D0E 04160414 51AF2CB0 584620FA C46036EB 685B22FC
4F536F89
300D0609 2A864886 F70D0101 04050003 81810064 2BABF0AB 55A1B973
BCD6EF18
D8EFCEFA 470F1E4A 0D72CE04 9E52600A FB2476F8 49148597 DA2F993A
FD59F56A
31546EFD DDA3ADB5 AB312BAC 3458A97B F79F9A08 58F4FC65 D22D5CDA
04B82F68
6D037821 8F0B3B08 5995C77F 8BDCB89F 80F3E6F5 4B00E72C 6E21A272
5FCD4D52
3973CD3F 0B5F40B9 C4C6F0CE F7A1651E 1B2971
quit
dot11 syslog 'something do with wireless
no ip source-route 'discard IP data grams containing source-route options ??
ip cef 'Express forwarding - is this for switching traffic? or routing traffic? - faster
!
!
ip auth-proxy max-nodata-conns 3 'VPN, the maximum # of concurrent connections
ip admission max-nodata-conns 3 ' IF AAA is down, apply this policy
no ip bootp server 'makes the router a bootable device
ip domain name scotiangold.com 'Domain name
ip name-server 142.177.2.12 'DNS server 1
ip name-server 142.177.129.11 'DNS Server 2
!
!
!
username bigdog98$ privilege 15 secret 5 $1$.UWM$ynZ2opVxXm6493jzuUfnz/
'Administratior Account
!
!
```

```
crypto isakmp policy 1
  encr 3des
  authentication pre-share
  group 2
!
crypto isakmp client configuration group ScotianGold
  key 1$cluck$2
  dns 10.0.0.15
  wins 10.0.0.15
  domain scotianguard.local
  pool SDM_POOL_1
  acl 100
  max-users 7
  netmask 255.255.255.0
crypto isakmp profile sdm-ike-profile-1
  match identity group ScotianGold
  client authentication list sdm_vpn_xauth_ml_1
  isakmp authorization list sdm_vpn_group_ml_1
  client configuration address respond
  virtual-template 1
!
!
crypto ipsec transform-set ESP-3DES-SHA esp-3des esp-sha-hmac
!
crypto ipsec profile SDM_Profile1
  set transform-set ESP-3DES-SHA
  set isakmp-profile sdm-ike-profile-1
!
!
archive 'enter configuration
  log config 'enter configuration
  hidekeys 'hide password information in log files
!
!
ip tcp synwait-time 10 'Syn_wait time out period
ip ssh time-out 60 'how many seconds before ssh connection times out
ip ssh authentication-retries 2 'how many retries on password/username on ssh
connections
!
!
!
interface Loopback0 'loopback address configuration - using for unnumbered vpn
connection
  ip address 192.168.199.1 255.255.255.0
!
interface FastEthernet0
```

```

!
interface FastEthernet1
!
interface FastEthernet2
!
interface FastEthernet3
!
interface FastEthernet4 ' WAN CONNECTION
description $ES_WAN$$FW_OUTSIDES$
ip address 142.177.198.138 255.255.255.248 'First address in ISP assigned addresses
no ip redirects 'will not respond to ICMP messages
no ip unreachablees 'will not respond or generate Unreachable Messages via interface
no ip proxy-arp 'not allowed to do ARP translation on this interface
ip nat outside 'configure interface for outside NAT
ip virtual-reassembly 'something to do with Fragmentation of packets (Guessing)
ip route-cache flow 'flow control?
duplex auto
speed auto
!
interface Virtual-Template1 type tunnel 'creates the Virtual Tunnel Interface
tunnel mode ipsec ipv4 'sets mode and type for IPv4 IPSEC
tunnel protection ipsec profile SDM_Profile1 'enabled generic routing encapsulation on
this interface, using defined profile SDM_Profile1
!
interface Dot11Radio0 ' Wireless Router configuration
no ip address
no ip redirects
no ip unreachablees
no ip proxy-arp
ip route-cache flow
shutdown
speed basic-1.0 basic-2.0 basic-5.5 6.0 9.0 basic-11.0 12.0 18.0 24.0 36.0 48.0 54.0
station-role root
!
interface Vlan1 'Virutal Lan configuration
description $ETH-SW-LAUNCH$$INTF-INFO-HWIC
4ESW$$ES_LAN$$FW_INSIDES$
ip address 10.0.0.254 255.255.255.0
no ip redirects 'will not respond to ICMP messages
no ip unreachablees 'will not respond or generate Unreachable Messages via interface
no ip proxy-arp 'not allowed to do ARP translation on this interface
ip nat inside 'interface configured for NAT Translation (inside)
ip virtual-reassembly 'something to do with Fragmentation of packets (Guessing)
ip route-cache flow 'flow control?
ip tcp adjust-mss 1452 'Adjusts the max segment size of a TCP SYN packet.
!

```

```

ip local pool SDM_POOL_1 192.168.240.10 192.168.240.22 'Define the DHCP pool for
VPN clients
ip forward-protocol nd 'specify's which protocols, ports are forwarded --> nd means
Network Disk packets (these may not be necessary)
ip route 0.0.0.0 0.0.0.0 FastEthernet4 ' route all other traffic to the Internet
!
ip http server 'enable access to router via http
ip http access-class 23 'Access List 23 used on HTTP interface
ip http authentication local ' Use local authentication
ip http secure-server ' Use Secure HTTPS (443)
ip http timeout-policy idle 60 life 86400 requests 10000 'set timeout policies for HTTP
connections
!
ip nat inside source list 1 interface FastEthernet4 overload 'PAT Overload for clients to
reach internet
ip nat inside source static tcp 10.0.0.15 1723 interface FastEthernet4 1723 'translate
inbound connections on FA0/4 on port 1723 to IP on same port
ip nat inside source static tcp 10.0.0.15 25 142.177.198.139 25 extendable 'translate all
SMTP requests on ISP IP to internal IP on same port
ip nat inside source static tcp 10.0.0.15 110 142.177.198.139 110 extendable 'translate all
POP3 requests on ISP IP to internal IP on same port
ip nat inside source static tcp 10.0.0.15 80 142.177.198.140 80 extendable ' translate all
requests on ISP IP port to internal IP same port
!
logging trap debugging 'limits what type of messages are being sent to SNMP Server
access-list 1 remark INSIDE_IF=Vlan1 'comment on acl list 1 being for VLAN1
access-list 1 remark SDM_ACL Category=2 'comment - not sure what Category is
access-list 1 permit 10.0.0.0 0.0.0.255 'standard ACL to permit all network traffic on
10.0.0.0/24
access-list 100 remark SDM_ACL Category=4 ' comment
access-list 100 permit ip 10.0.0.0 0.0.0.255 any 'extended ACL to permit source
10.0.0.0/24 to any destination
no cdp run 'do not run the cicso discovery protocol
!
!
!
control-plane '???'
!
banner exec ^C
% Password expiration warning.
-----

```

Cisco Router and Security Device Manager (SDM) is installed on this device and it provides the default username "cisco" for one-time use. If you have already used the username "cisco" to login to the router and your IOS image supports the "one-time" user option, then this username has already expired. You will not be

able to login to the router with this username after you exit this session.

It is strongly suggested that you create a new username with a privilege level of 15 using the following command.

```
username <myuser> privilege 15 secret 0 <mypassword>
```

Replace <myuser> and <mypassword> with the username and password you want to use.

```
-----  
^C  
banner login ^CAuthorized access only!  
Disconnect IMMEDIATELY if you are not an authorized user!^C  
!  
line con 0  
no modem enable  
transport output telnet 'define which protocols can be used for outbound connections  
line aux 0  
transport output telnet 'define which protocols can be used for inbound connections  
line vty 0 4  
privilege level 15  
transport input telnet ssh 'define which protocols can be used for inbound connections  
!  
scheduler max-task-time 5000 'defined maximum task time (??)  
scheduler allocate 4000 1000 'CPU time for processes (interrupt time, process-time)  
scheduler interval 500 'max time not running a task  
end
```