

Cisco Stuff

My experience configuring cisco device(s). I'm just dumping my text notes for now... will try to make this prettier some other time 😎

Status: At the moment, my DHCP server on 1841 is running and correctly providing machines on my switch with proper IPs. NAT works.

Cisco 1841 Router

I want to setup a LAN in my lab so that I can have a central login server for all Windows machines. One interface on the 1841 will be for LAN, while the other will be connected to Uni's network.

[cisco-1841_config.txt](#)

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general info
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- note that default hostname for device is 'Router'
- basic prompt is {hostname}>
- privileged prompt is {hostname}#

- to reset configuration, reboot and send break within 60 seconds?
  = on minicom, hit ctrl+a-f
  = should get rommon console (i.e. rommon {1-based index}>)
- configure router to bypass configuration
  = type 'confreg 0x2142'
  = type 'reset'
- configure router to use configuration
  = type 'confreg 0x2102'
  = type 'reset'

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configuring cisco 1841 router
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- pc serial port connect to rj45 console port on 1841
  = need usb2serial for most pc nowadays
  = need an rj45-rs232 cable!
- i use minicom on slackware
  = use 9600 8n1 with no flow control
- start router, skip all wizards/auto-config
  = should get 'Router>' prompt
  = type <command> ? for specific help
```

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= typing help will tell you this :p
- type 'enable' to get to global config privileged mode
= should get 'Router#' prompt

* configure basics
- type 'conf t' to start configuring
= shortcut for 'configure terminal'
- configurations:
= no ip domain lookup
  - this disables domain lookup (do not use dns)
= no logging console
  - this disables log messages display on console
= hostname myl841
  - changes router hostname (prompt should reflect)
= enable secret 0 mylpass
  - default level is 5? but the command above still sets 5
  - tested 20161208: show running-config | include enable
  - maybe add keyword level before 0?
= service password-encryption
  - enables password encryption (on clear text? not needed for
secret?)
- type 'exit' in config-mode then write

* configure wan & lan ports
- type 'conf t' to start
- configurations:
= interface fas0/0
  - prompt appended with (config-if)
  - configuring fast ethernet port 0
= description WAN_LINK
  - just a label
= ip address dhcp client-id FastEthernet0/0
  - set to be dhcp client
= no shut
= exit
  - get back to global config
= interface fas0/1
  - configuring fast ethernet port 1
= description LAN_LINK
= ip address 192.168.100.1 255.255.255.0
  - set private local ip
= no shut
= exit
  - get back to global config
- type 'exit' in config-mode then write

* configure dhcp for lan
- type 'conf t' to start
- configurations:
= ip dhcp pool myldhcp
  - prompt appended with (dhcp-config)
```

```
= network 192.168.100.0 255.255.255.0
= default-router 192.168.100.1
= dns-server 8.8.8.8
= exit
  - get back to global config
= ip dhcp excluded-address 192.168.100.1 192.168.100.9
  - 'reserve' these for network management
- type 'exit' in config-mode then write

* configure gui http server
- type 'conf t' to start
- configurations:
  = username admin privilege 15 password check
  = ip http server
  = ip http secure-server
  = ip http authentication local
- type 'exit' in config-mode then write

* link wan & lan using nat (NOT TESTED!)
- type 'conf t' to start
- configurations:
  = interface fas0/0
  = ip nat outside
  = exit
  = interface fas0/1
  = ip nat inside
  = exit
  = access-list 100 permit ip any any
    - simple access-list - just allow everything
  = ip nat inside source list 100 interface fas0/0
    - anything sourced from ACL 100 is permitted
    - outside interface (FastEthernet 0/0) is the port for PAT
- type 'exit' in config-mode then write
```

Cisco 3560 Switch

This switch actually have a [layer 3](#) implementation (well, provided you get the correct software image) that enables routing.

I just need a simple switch configuration for now.

[cisco_3560_config.txt](#)

```
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general info
-----
```

- note that default hostname for device is 'Switch'
- basic prompt is {hostname}>
- privileged prompt is {hostname}#

* to reset

- delete flash:vlan.dat
- erase startup-config
- reload
- = do not save anything if prompted

* to check flash content

- dir flash:

* show 'show' options

- show ?

* to check boot settings

- show boot
(configure boot system)
- boot system flash: (???)

configuring cisco 3560 switch

* configure basics

- to start configuring
 - # configure terminal
- change hostname to 'my3560'
 - # hostname my3560
- set password 'mylpass' to enable
 - # enable secret mylpass
- exit config-mode
 - # exit
- write/save config
 - # write

Note: The default 'factory' image should be *c3560-ipbase-mz.122-53.SE/c3560-ipbase-mz.122-53.SE.bin*, but the one I got has *c3560-advipservicesk9-mz.122-37.SE.bin*. I guess this is the image that provides layer 3 stuffs.

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