

### [Router] Basic Configuration

Short Command	Full-Length Command
ho R1	hostname R1
no ip dom lo	no ip domain-lookup
ena sec class	enable secret class
ser pass	service password-encryption
banner motd #Authorized access ONLY!#	banner motd # [Text] #
login blo 120 a 3 w 30	login block-for 120 attempts 3 within 30
lin con 0	line console 0
pass cisco	password cisco
login	login
logg sync	logging synchronous
exec-t 5 0	exec-timeout 5 0
lin vty 0 15	line vty 0 15
pass cisco	password cisco
login	login
logg sync	logging synchronous
exec-t 5 0	exec-timeout 5 0
int g0/0	interface [interface]
desc Connected to G0/0 on R2	description [text]
ip add 10.1.1.1 255.255.255.0	ip address [address] [subnet-mask]
no shut	no shutdown
exit	exit



By **River L. (Tamaranth)**  
[cheatography.com/tamaranth/](http://cheatography.com/tamaranth/)

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### [Switch] Basic Configuration

Short Command	Full-Length Command
ho S1	hostname S1
no ip dom lo	no ip domain-lookup
ena sec class	enable secret class
service password-e	service password-encryption
lin con 0	line console 0
pass cisco	password cisco
login	login
logg sync	logging synchronous
exec-t 5 0	exec-timeout 5 0
lin vty 0 15	line vty 0 15
pass cisco	password cisco
login	login
logg sync	logging synchronous
exec-t 5 0	exec-timeout 5 0
exit	exit

### [Switch] VLAN Configuration

Short Command	Full-Length Command
int vl 10	interface vlan <i>[vlan-number]</i>
na Students	name <i>[vlan-name]</i>
exit	exit
int f0/5	interface <i>[interface]</i>
sw m a	switchport mode access
sw a v 10	switchport access vlan <i>[vlan-number]</i>
exit	exit



### [Switch] Port Security

Short Command	Full-Length Command
<code>sw port</code>	<code>switchport port-security</code>
<code>sw port max 2</code>	<code>switchport port-security maximum 2</code>
<code>sw port mac st</code>	<code>switchport port-security mac-address sticky</code>
<code>sw port v shut</code>	<code>switchport port-security violation [mode]</code>

\* Only on access ports, not trunking ports!

### [Switch] VLAN Trunking

Short Command	Full-Length Command
<code>int f0/5</code>	<code>interface [interface]</code>
<code>sw m t</code>	<code>switchport mode trunking</code>
<code>sw t n v 30</code>	<code>switchport trunking native vlan 30</code>
<code>sw t a v 10,20,30</code>	<code>switchport trunking access vlan 10,20,30</code>
<code>sw non</code>	<code>switchport nonegotiate</code>

### [Router/Switch] SSH Configuration

Short Command	Full-Length Command
<code>usern admin sec cisco</code>	<code>username [name] secret [password]</code>
<code>ip dom n ccna-labs.com</code>	<code>ip domain-name [domain]</code>
<code>cry key gen rsa gen mod 1024</code>	<code>crypto key generate rsa general-keys modulus 1024</code>
<code>ip ssh v 2</code>	<code>ip ssh version 2</code>
<code>lin vty 0 15</code>	<code>line vty 0 15</code>
<code>login lo</code>	<code>login local</code>
<code>trans in ssh</code>	<code>transport input ssh</code>



### Router-On-A-Stick Configuration

Short Command	Full-Length Command
<code>int g0/0.10</code>	<code>interface [subinterface]</code>
<code>enc dot 10</code>	<code>encapsulation dot1Q [vlan-number]</code>
<code>desc Gateway for Students VLAN</code>	<code>description [text]</code>
<code>ip add 10.1.2.1 255.255.255.0</code>	<code>ip address [address] [subnet-mask]</code>
<code>int g0/0.20</code>	<code>interface [subinterface]</code>
<code>enc dot 20</code>	<code>encapsulation dot1Q [vlan-number]</code>
<code>desc Gateway for Faculty VLAN</code>	<code>description [text]</code>
<code>ip add 10.1.3.1 255.255.255.0</code>	<code>ip address [address] [subnet-mask]</code>
<code>exit</code>	<code>exit</code>
<code>int g0/0</code>	<code>interface [interface]</code>
<code>no shut</code>	<code>no shutdown</code>
<code>exit</code>	<code>exit</code>

### RIP Configuration

Short Command	Full-Length Command
<code>ip route 0.0.0.0 0.0.0.0 s0/0/0</code>	<code>ip route 0.0.0.0 0.0.0.0 [exit-interface]</code>
<code>router rip</code>	<code>router rip</code>
<code>ver 2</code>	<code>version 2</code>
<code>no auto</code>	<code>no auto-summary</code>
<code>net 192.168.1.0</code>	<code>network [network-address]</code>
<code>pa g0/0</code>	<code>passive-interface [interface]</code>
<code>* def o</code>	<code>default-information originate</code>
<i>* Only on router connected to internet</i>	
<code>exit</code>	<code>exit</code>



### DHCP Configuration

#### Short Command

#### Full-Length Command

--- DHCP Server ---

**ip dhcp ex** 192.168.1.1 192.168.1.5

ip dhcp excluded-address *[first-IP] [last-IP]*

**ip dhcp pool** R1\_Pool

ip dhcp pool *[pool-name]*

**netw** 192.168.1.0 255.255.255.0

network *[network-address] [subnet-mask]*

**def** 192.168.1.1

default-router *[default-gateway-IP]*

**exit**

exit

--- Relay Router ---

**int** g0/0

interface *[interface]*

**ip dhcp help** *[server-IP]*

ip dhcp helper-address *[server-IP]*

**exit**

exit

### NAT Configuration

#### Short Command

#### Full-Length Command

**acc s 10 p** 192.168.1.0

access-list standard *[acl-number]* permit *[address]*

**ip nat pool** CorpNet 209.165.200.10  
209.165.200.13 **net** 255.255.255.0

ip nat pool *[pool-name] [first-IP] [last-IP]* network *[subnet-mask]*

**ip nat in s list 10 pool** CorpNet **ov**

ip nat inside source list *[acl-number]* pool *[pool-name]* overload

**no auto**

no auto-summary

**pass** g0/0

passive-interface g0/0

**int** g0/0

interface *[interface]*

**ip nat in**

ip nat inside

**int** s0/0/0

interface *[interface]*

**ip nat out**

ip nat outside

**exit**

exit

