COPY LINES OF CODE THEN EDIT THEM IN NOTEPAD. TRUST ME, BRO.

<mark>*FOR ROUTER/SWITCH:*</mark>

(assume that AAA authentication is used on all devices)

!initial configs
ena
conf t
hostname name
banner motd #Warning: Unauthorized access to this device is illegal. Please proceed with caution.#
no ip domain-lookup
service password-encryption
enable secret cisco

!aaa
username admin1 secret admin1pa55
aaa new-model
aaa authentication login default local
line con 0
login authentication default

!ssh
ip domain-name ccnasecurity.com
crypto key generate rsa
1024
aaa authentication login SSH-LOGIN local
line vty 0 4
login authentication SSH-LOGIN
transport input ssh
end

(in global configuration mode)

!vlans

vlan 10
name Acctg
vlan 20
name Web

vtp domain cisco.com
vtp mode [client | server]

int ra fa0/1-5
switchport mode access
switchport access vlan 10

int ra fa0/6-10
switchport mode access
switchport access vlan 10

!management

vlan 99
name mgt

int fa0/20
switchport mode access
switchport access vlan 99

int vlan 99
ip add 192.168.99.1 255.255.255.0
no shut

!trunking

int g0/2
switchport mode trunk
switchport trunk allowed vlan 1-1000

!going to router

int g0/1
switchport mode trunk

!port-security

int ra fa0/1-10
switchport mode access
switchport port-sec
switchport port-sec max 1
switchport port-sec mac add sticky
switchport port-sec violation [shut | restrict | protect]

!etherchannel

!LACP
int ra fa0/23-24
channel-group 1 mode passive

(other side should be active)

!PAGP
int ra g0/1-2
channel-group 2 mode desirable

(other side should be auto)

!Static
int ra fa0/21-22
channel-group 3 mode on

FOR ROUTER:

(in global configuration mode)
(skip ipv6 if not needed)
(all values are placeholders so change them!)

!router-to-router
int se0/0/0
ip add 10.10.10.1 255.255.255.252
no shut

!router-to-lan
int g0/1
ip add 192.168.1.1 255.255.255.0
ip helper-address 11.11.11.1
no shut

!ipv6
ipv6 unicast-routing
ipv6 router rip CISCO

!stateless ipv6 dhcp
ipv6 dhcp pool EDGE-STATELESS
dns-server 2001:DB8:ACAD:B:2D0:FFFF:FE79:628B
domain-name STATELESS.com

!hsrp
track 1 int se0/0/1

!router-to-lan inter-vlan with hsrp
int g0/0
no shut

int g0/0.10
encapsu dot1q 10
ip add 200.15.240.34 255.255.255.224
ipv6 add 2001:DB8:ACAD:10::1/64
ipv6 add fe80::1 link-local

ipv6 rip CISCO enable
no shut
standby 1 ip 200.15.240.33
standby 1 priority 105
standby 1 preempt
standby 1 track 1 decrement 10
ipv6 nd other-config-flag
ipv6 dhcp server EDGE-STATELESS
ip helper-address 11.11.11.1

int g0/0.20
encapsu dot1q 20
ip add 200.15.240.66 255.255.255.224
ipv6 add 2001:DB8:ACAD:20::1/64
ipv6 add fe80::1 link-local
ipv6 rip CISCO enable
no shut
standby 1 ip 200.15.240.65
standby 1 priority 105
standby 1 preempt
standby 1 track 1 decrement 10
ipv6 nd other-config-flag
ipv6 dhcp server EDGE-STATELESS
ip helper-address 11.11.11.1

!dhcp
ip dhcp excluded-address 200.15.240.33 200.15.240.39
ip dhcp excluded-address 200.15.240.65 200.15.240.69

ip dhcp pool VLAN10
default-router 200.15.240.33
network 200.15.240.32 255.255.255.224
dns-server 200.15.240.170

ip dhcp pool VLAN20
default-router 200.15.240.65
network 200.15.240.64 255.255.255.224
dns-server 200.15.240.170

!loopback!
int loopback0
ip add 198.2.128.1 255.255.255.252
ipv6 add 2002:DB8:ACAD:FFFF::1/64
ipv6 add fe80::1 link-local
ipv6 rip CISCO enable
no shut

!default static route
ip route 0.0.0.0 0.0.0.0 10.10.10.2
Ipv6 route ::/0 2001:DB8:ACAD:1::1

!choose dynamic routing

!eigrp
router eigrp 100
no auto-summary
network 192.168.1.0 0.0.0.255
network 198.11.240.0 0.0.0.31
network 10.10.10.0 0.0.0.3

!ospf
router ospf 1
network 192.168.1.0 0.0.0.255 area 0
network 198.11.240.0 0.0.0.31 area 0
network 10.10.10.0 0.0.0.3 area 1

!ripv2
router rip
version 2
no auto-summary
network 192.168.1.0
network 198.11.240.0
network 10.10.10.0

ROUTE REDISTRIBUTION (only include if necessary):

!redistribute static
redistribute static

!redistribute ospf
redistribute ospf 1 metric 10000 10 255 0 1500

!redistribute eigrp
redistribute eigrp 100 metric 1 subnets

!redistribute ripv2
redistribute rip metric 1

!ACL

(choose your poison)

!standard-numbered
access-list 10 deny 192.168.2.0 0.0.0.255
access-list 10 permit any

int se0/0/1
ip access-group 10 in

!virtual terminal
access-class 10 in

!standard-named
ip access-list standard yahoo
deny 64.84.29.204 0.0.0.0
permit any

int se0/0/1
ip access-group yahoo in

!virtual terminal
access-class yahoo in

!extended-numbered
access-list 101 deny tcp host 192.168.2.1 any eq 22
access-list 101 permit ip any any

int se0/0/0
ip access-group 101 in

!extended-named
ip access-list extended yahoo
deny tcp host 200.200.200.200 host 64.84.29.204 eq 22
permit ip any any

int se0/0/0
ip access-group yahoo out

TCP		UDP	
FTP	20,21	DNS	53
SSH	22	BooTPS/DHCP	67
Telnet	23	TFTP	69
SMTP	25	NTP	123
DNS	53	SNMP	161
HTTP	80		
POP3	110		
IMAP4	143		
HTTPS	443		

FOR HSRP ON THE BACKUP ROUTER:

int g0/0
no shut

int g0/0.10
encapsu dot1q 10
ip add 200.15.240.35 255.255.255.224
no shut
standby 1 ip 200.15.240.33
standby 1 preempt
ip helper-address 11.11.11.1

int g0/0.20
encapsu dot1q 20
ip add 200.15.240.67 255.255.255.224
no shut
standby 1 ip 200.15.240.65
standby 1 preempt
ip helper-address 11.11.11.1