Cisco Cheat Sheet

Basic Configuration Initial Commands

Name the device:

Router# configure terminal
Router(config)# hostname [hostname]

Configure a banner:

R1(config)# banner motd \$Autorized Access Only\$

Save the Changes:

R1# copy running-config startup-config

Configure Interface IPv4:

R1(config)# interface gigabitethernet 0/0 R1(config-if)# description Link to LAN 1

R1(config-if)# ip address 192.168.10.1 255.255.255.0

R1(config-if)# no shutdown

-or-

R1(config)# interface serial 0/0/0

R1(config-if)# description Link to R2

R1(config-if)# ip address 209.165.200.225 255.255.255.252

R1(config-if)# clock rate 128000

R1(config-if)# no shutdown

Secure Management Access

R1(config)# enable secret class

R1(config)# line console 0

R1(config-line)# password cisco

R1(config-line)# login

```
R1(config-line)# exit
R1(config)# line vty 0 4 \leftarrow depending on the number of VTYs!
R1(config-line)# password cisco
R1(config-line)# login
```

R1(config-line)# logi

R1(config-exit)# exit

R1(config)# service password-encryption

VLAN

Access Control Lists

This chapter describes how to configure Access Control Lists (ACLs).

Note! Each ACL contains an implicit DENY at the end!

Spanning Tree

This chapter describes how to configure Spanning Tree.

Link Aggregation

This chapter describes how to configure port channels and to apply and configure the Link Aggregation Control Protocol (LACP).

Configure Interfaces

```
s1(config)# interface range fe0/1-2
s1(config-if-range)# shutdown
s1(config-if-range)# channel-group 1 mode active
s1(config-if-range)# exit
s1(config)# interface port-channel 1
```

```
s1(config-if)# switchport mode trunk
s1(config-if)# switchport trunk allowed vlan 1,2,20
```

Verify Link Aggregation

```
s1# show interface port-channel1
s1# show etherchannel summary
s1# show etherchannel port-channel
s1# show interfaces f0/1 etherchannel
```

More information about Link Aggregation Control Protocol (LACP) (802.3ad) for Gigabit Interfaces.

OSPF

This chapter describes how to configure OSPF.

Single-Area OSPF

```
This chapter describes how to configure Single-Area OSPF.
R1(config)# interface GigabitEthernet0/0
R1(config-if)# bandwidth 1000000
R1(config-if)# exit
R1(config)# router ospf 10
R1(config-router)# router-id 1.1.1.1
R1(config-router)# auto-cost reference-bandwidth 1000
R1(config-router)# network 172.16.1.0 0.0.0.255 area 0
R1(config-router)# passive-interface g0/0
```

Verifying Single-Area OSPF

Multi-Area OSPF

https://github.com/roaldnefs/cisco-cheatsheet