

Cisco Cheat Sheet

Basic Configuration

Initial Commands

Name the device:

```
Router# configure terminal
```

```
Router(config)# hostname [hostname]
```

Configure a banner:

```
R1(config)# banner motd $Authorized Access Only$
```

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 ← depending on the number of VTYS!
```

```
R1(config-line)# password cisco
```

```
R1(config-line)# login
```

```
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>