

Basic Configuration of Cisco Routers

Soumis par CCNA

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- Configuring R1

```
router> enable

router# conf t

router(config)# interface serial0

router(config-if)# ip address 10.0.0.1 255.0.0.0

router(config-if)# no shutdown (updates the interface)

router(config-if)# exit

router(config)# hostname R1

R1(config)# exit

R1# wr (writes RAM to NVRAM)
```

- Configuring R2

```
router> enable

router# conf t

router(config)# interface serial0

router(config-if)# ip address 10.0.0.2 255.0.0.0

router(config-if)# no shutdown (updates the interface)

router(config-if)# clock rate 64000 (sets the clock rate for the DCE)

router(config-if)# exit

router(config)# hostname R2

R2(config)# exit

R2# wr (writes RAM to NVRAM)
```

- Checking R1 configuration

```
R1# show ip interface brief (shows IP configuration)

R1# show run (shows running config in RAM)

R1# show start (shows startup config in NVRAM)

R1# show ip route (--> c(connected) 10.0.0.0/8)
```

R1# show version (shows IOS version)

R1# show flash (shows FLASH information)

R1# show controller serial0 (shows interface controller status)

R1# show ? (shows command options)

R1# ping 10.0.0.2 (checks connectivity with R2)

R1# exit

R1>

- Checking R2 configuration

R2# show ip interface brief (shows IP configuration)

R2# show run (shows running config in RAM)

R2# show start (shows startup config in NVRAM)

R2# show ip route (--> c(connected) 10.0.0.0/8)

R2# show version (shows IOS version)

R2# show flash (shows FLASH information)

R2# show controller serial0 (shows interface controller status)

R2# show ? (shows command options)

R2# ping 10.0.0.1 (checks connectivity with R1)

R2# exit

R2>