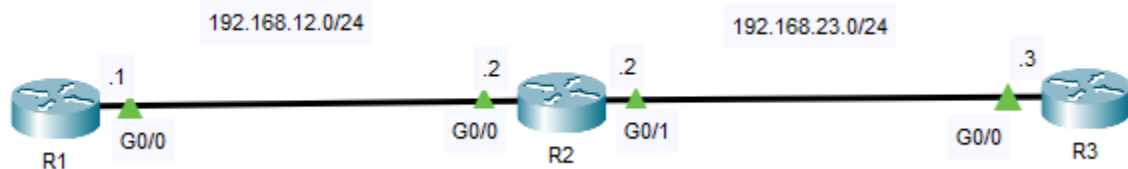


## ACTIVITY 32: NTP (Part 1)



1. Configure the timezone, time, and date on R1 to match your local time.

```
R1#clock set 16:52 June 15 2024
```

```
R1#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
R1(config)#clock timezone EAT 3
```

2. Configure R1 as an NTP server with the default stratum level.

```
R1(config)#ntp master
```

3. Configure R2 to synchronize its time to R1.

```
R2(config)#clock timezone MADA 2
```

```
R2(config)#ntp server 192.168.12.1
```

Let's verify it:

```
R2#sh clock detail
18:56:53.115 MADA Sat Jun 15 2024
Time source is NTP
```

4. Configure R3 to synchronize its time to R2.

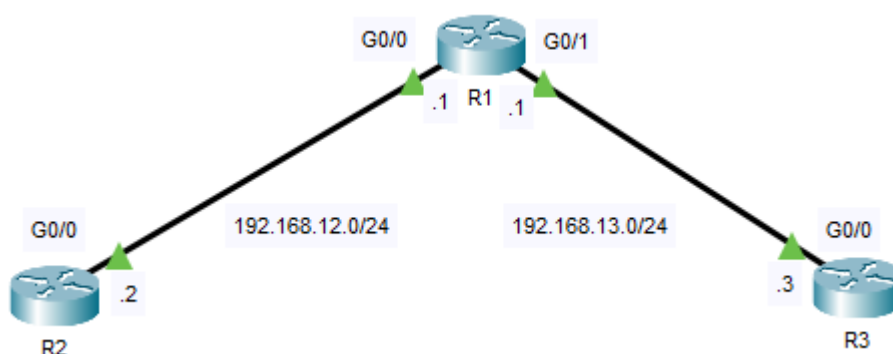
```
R3(config)#clock timezone FRANCE 2
```

```
R3(config)#ntp server 192.168.23.2
```

Let's verify it, it took a long time:

```
R3#sh clock detail
20:25:59.963 FRANCE Sat Jun 15 2024
Time source is NTP
```

## ACTIVITY 33: NTP (Part 2)



1. Configure the timezone, time, and date on R1 to match your local time.

```
R1#clock set 17:13 June 15 2024
```

```
R1#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
R1(config)#clock timezone EAT 3
```

2. Configure R1 as an NTP server with the default stratum level.

---R1 should authenticate NTP: Key 1: 'cisco1' and Key 2: 'cisco2'

```
R1(config)#ntp master
R1(config)#ntp authenticate
R1(config)#ntp authentication-key 1 md5 cisco1
R1(config)#ntp authentication-key 2 md5 cisco2
R1(config)#ntp trusted-key 1
R1(config)#ntp trusted-key 2
```

3. Configure R2 to synchronize its time to R1.

---R2 should authenticate NTP: Key 1: 'cisco1'

```
R2(config)#clock timezone MADA 3
R2(config)#ntp authenticate
R2(config)#ntp authentication-key 1 md5 cisco1
R2(config)#ntp trusted-key 1
R2(config)#ntp server 192.168.12.1 key 1
```

```
R2#sh clock detail
20:30:52.495 MADA Sat Jun 15 2024
Time source is NTP
```

4. Configure R3 to synchronize its time to R1.

---R3 should authenticate NTP: Key 2: 'cisco2'

```
R3(config)#clock timezone FRANCE 2
R3(config)#ntp authenticate
R3(config)#ntp authentication-key 2 md5 cisco2
R3(config)#ntp trusted-key 2
R3(config)#ntp server 192.168.13.1 key 2
```

```
R3#sh clock detail
19:21:41.379 FRANCE Sat Jun 15 2024
Time source is NTP
```