NTP Protocol Cheat Sheet for Cisco Beginners

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This is a generic cheat sheet and not for a specific use case.

What is NTP?

Network Time Protocol (NTP) synchronizes clocks across network devices. It ensures all devices have the same accurate time, which is critical for logging, security, and network operations.

Basic NTP Configuration

Set NTP Server (Client Mode)

```
Router(config)# ntp server 192.168.1.1
Router(config)# ntp server 10.1.1.1
```

Set Timezone

```
Router(config)# clock timezone EST -5
Router(config)# clock timezone PST -8
Router(config)# clock timezone GMT 0
```

Enable Daylight Saving Time

```
Router(config)# clock summer-time EDT recurring
Router(config)# clock summer-time PDT recurring
```

NTP Authentication (Optional)

Configure NTP Authentication

```
Router(config)# ntp authenticate
Router(config)# ntp authentication-key 1 md5 mypassword
Router(config)# ntp trusted-key 1
Router(config)# ntp server 192.168.1.1 key 1
```

Essential Show Commands

View NTP Status

```
Router# show ntp status
```

View NTP Associations

```
Router# show ntp associations
Router# show ntp associations detail
```

View Current Clock

```
Router# show clock
Router# show clock detail
```

View NTP Statistics

```
Router# show ntp statistics
```