

## Configuring NTP

- Use Network Time Protocol (NTP) to synchronize clocks on network devices.

- ↳ correlate timestamps on log files for troubleshooting.

- ↳ Unix OS cannot provide primary time reference

- ↳ Support client, server, broadcast, & symmetric active modes.

- Supports for MD5 and Secure Hash Algorithm authentication

[edit system.ntp]

-

JUNIPER NETWORKS

INTRODUCTION TO THE JUNOS OPERATING SYSTEM:  
System Logging, Tracing, NTP, and SNMP  
Configuring NTP

00:20/01:02 | Page: 03/05

## NTP Clock Synchronization: Part 2

- Include the authentication-key statement at the [edit system ntp] hierarchy level
- Two machines can synchronize only when their current clocks are relatively close

A Simple NTP Client-Mode Configuration

```
[edit system ntp]
user@router# show
authentication-key 1 type md5 value "$9$dQw2oDi.z39JG39ApREdbs"; ## SECRET-DATA
server 172.25.11.254 key 1; ## SECRET-DATA
trusted-key 1;
```

↳ Issue `set date ntp address >`  
command as a substitute for a  
boot server (v-SRX devices)

- Monitoring NTP Clock Synchronization

- `show ntp association` command  
to confirm synchronization status

• `ntp status` command.