Diagnose Issues Using Systemd

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Overview

Managing Services and Startup

- Boot time and which service or services took the most time

- Understanding unit files

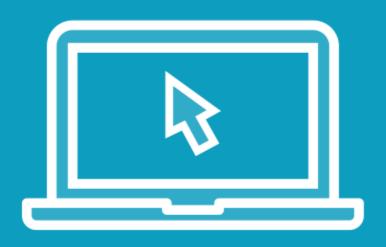- Configuring debug mode on SSH Server

Startup

```
$ systemctl-analyze
$ systemctl analyze-blame
```

Identify Kernel and Service Start Timings

A great tool in systemd is the ability to identify the facts about the system startup, allowing us to identify services that take a time to start.

Demo

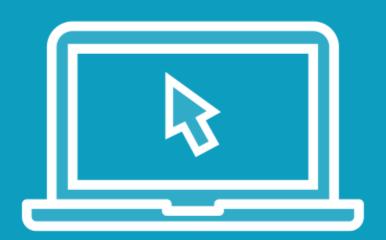**Identify Startup Times:**
- systemd-analyze

Service Unit Files

```
$ man 5 systemd.service
$ systemctl cat sshd.service
$ vim /etc/default/ssh
SSHD_OPTS="-d"
```

Service Units

The systemd service units are well documented, we can also view the contents of existing units. The sshd.service unit starts SSH with $SSHD_OPTS. Those options can be configured in the file /etc/default/ssh. Here we put service into debig mode.

Demo

Investigating Unit Files:
- Read sshd.service
- Configure options
- View results and restart

Summary

Using Systemd in Troubleshooting

- systemd-analyze

- systemd-analyze blame

- systemctl cat

- $SSHD_OPTS

Thank you for watching and your continued support!!