

# Shell Scripting Class

Question and Answer Session



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# Agenda

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- Don't reinvent the wheel, mktemp edition.
- Don't reinvent the wheel, monitoring edition.
- Live questions and discussion.

# Creating Temporary Files/Dirs: mktmp

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```
FILE=/etc/hosts
```

```
BACKUP_FILE="/var/tmp/$(basename ${FILE}).$(date +%F-%N)"
```

```
# RESULT: /var/tmp/hosts.2018-02-05-824552814
```

```
BACKUP_FILE=$(mktmp)
```

```
# RESULT: /tmp/tmp.gkBeAjwFQk
```

```
BACKUP_FILE=$(mktmp /var/tmp/$(basename ${FILE}).XXXX)
```

```
# RESULT: /var/tmp/hosts.Z4UQ
```

# Monitoring and Restarting a Process

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```
SERVICE_NAME="httpd"
START_SERVICE_COMMAND="systemctl start httpd"
SERVICE_PID=$(pidof ${SERVICE_NAME})

if [[ -n "${SERVICE_PID}" ]]
then
    logger "${SERVICE_NAME} running as PID ${SERVICE_PID}"
else
    logger "Restarting ${SERVICE_NAME}: ${START_SERVICE_COMMAND}"
    ${START_SERVICE_COMMAND}
    exit 1
fi
exit 0
```

# Don't Reinvent the Wheel: Monitoring

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Monit - <https://mmonit.com/monit/>

God - <http://godrb.com/>

Supervisord - <http://supervisord.org/>

Init (respawn) / Systemd (Restart=)

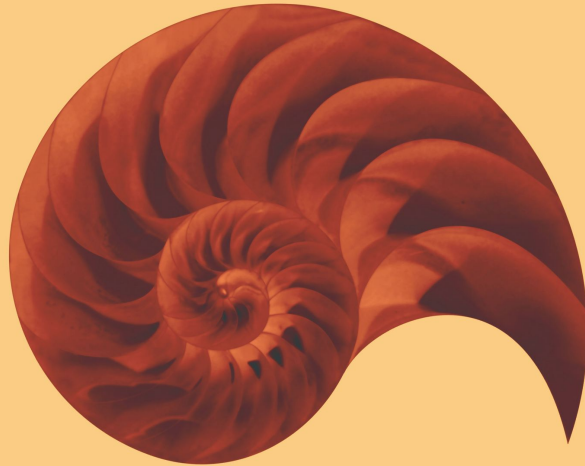
# To Script or Not To Script?

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- Don't create something that already exists.
- Script to enhance existing software.
- Script when there is no command or software that meets your requirements. (You have a custom workflow.)
- Script when it's quick.
- Script when you do not have permission to install software.

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