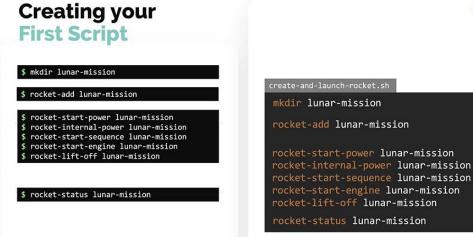
# **Creating your first shell script**

In this section, we will take a look at creating your first shell script.

To Create a shell script name create-and-launch-script.sh

\$ vi create-and-launch-script.sh

Creating your



### Run script as command

- There are different ways to execute a shell script
  - o Execute a shell script with bash command
    - \$ bash create-and-launch-script.sh
  - o Execute a shell script as an executable
    - \$ create-and-launch-script.sh

Note: It is a best practice to not name your script with the .sh extension when you would like to create an executable of a script.

\$ create-and-launch-script

### Configure a script to run as command

- Whenever a command is run at a linux system, the O.S looks at the path configured in the \$PATH environment variable to locate the executable or script for the command.
- If it cannot find the command in the \$PATH then a command not found error will be thrown.
- To add our script as a command, append the path to the directory containing the script to the end of the \$PATH variable.
  - \$ export PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/home/michael
- A better way to do this is to append the path to the directory to \$PATH variable
  - \$ export PATH=\$PATH:/home/michael

· Run the command

\$ create-and-launch-script

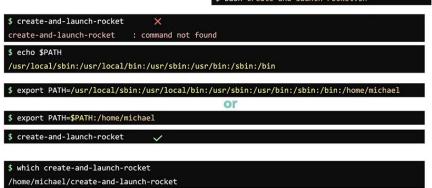
• To see the location of the command

\$ which create-and-launch-script

## Run script as

## Command

\$ bash create-and-launch-rocket.sh



### **∂** Executing a script

- For a shell script to work, we must set the correct permissions to the file, if the permissions are not set a "Permission Denied" error will be thrown when you run the script for the first time.
- Inspect the file permissions

\$ ls -l /home/michael/create-and-launch-script

• Add executable permissions to a file and then inspect the file to check if it got write permissions.

\$ chmod +x /home/michael/create-and-launch-script
\$ ls -l /home/michael/create-and-launch-script

• Now, run the script

\$ /home/michael/create-and-launch-script

## 

-rwx-rwx-r-x 1 michael michael 19 Mar 16 09:47 create-and-launch-rocket

\$ /home/michael/create-and-launch-rocket

#### **Best Practices**

## **Best Practice**

that makes sense"
good:
create-and-launch-rocket
bad:
script1.sh
myscript.sh
test.sh

"Give your script a name

"Leave out .sh extension for executables" good: create-and-launch-rocket bad: create-and-launch-rocket.sh