



## SECTION 1

# BASH SCRIPT STRUCTURE

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SECTION CHEAT SHEET

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# THE 3 CORE COMPONENTS OF A BASH SCRIPT

1

## SHEBANG LINE

This will pretty much  
always be `#!/bin/bash`

2

## BASH COMMANDS

These will depend on  
the task at hand

3

## EXIT STATEMENT

0 = Success  
Non-Zero = Failure

[Official Exit Code  
Guidance](#)

# THE 5 PROFESSIONAL COMPONENTS OF A BASH SCRIPT

```
# 1) Author: John Doe
# 2) Created: 7th July 2020
# 3) Last Modified: 7th July 2020

# 4) Description:
# Creates a backup in ~/bash_course folder of all files in the home directory

# 5) Usage:
# backup_script
```

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# HOW TO SET SECURE PERMISSIONS

**chmod** <octal code> <file>

- Find your octal code on [permissions-calculator.org](https://www.permissions-calculator.org)
- By default, go with **744** (rwxr--r--) or **754** (rwxr-xr--)

## MAKING YOUR SCRIPTS ACCESSIBLE FROM ANY FOLDER

- 1 Edit your `~/.profile` file to add a custom folder to your PATH

```
export PATH="$PATH:/path/to/script_directory"
```

- 2 Reload the `~/.profile` file

```
$ source ~/.profile
```

- 3 Add your scripts to the new folder and run like normal commands!

```
$ mv my_script script_directory
```

- 4 You can now run your scripts like regular commands!

```
$ my_script
```

**Note:** Scripts must have execute permissions to run.

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