Bash Shell Scripting 101 Workshop

You will learn (WIIFM)

- bash scripting basics
- Run bash scripts
- Practice vi (a lot)!!!

Requirements

- Basic knowledge of Linux
- Basic knowledge of VI

System Requirements

Linux environment

Agenda

- What Bash Is?
- Display text
- Environment Variables
- Variables
- Command substitution
- Math
- Comparison
- Logical Operations



Bash - Bourne Again Shell A command interpreter

Allows execution of commands

Environment Variables

Used to pass information into processes that are spawned from the shell

vagrant@ubuntu-xenial:~\$ env

vagrant@ubuntu-xenial:~\$ echo \$LOGNAME

Popular environment variables:

PATH

PWD

LOGNAME

HOME

HOSTNAME

Command: Date

Get system date/time

```
vagrant@ubuntu-xenial:~$ date
vagrant@ubuntu-xenial:~$ date +"%d-%m-%Y"
```

vagrant@ubuntu-xenial:~\$ date +"%H-%M-%S"

Command: printf

Formats and prints data

```
vagrant@ubuntu-xenial:~$ printf "Name:\t%s\nID:\t%04d\n" "Yaara" "24"
vagrant@ubuntu-xenial:~$ printf "Name:\t%s\nID:\t%04d\n" "Arie" "125"
vagrant@ubuntu-xenial:~$
```

Best Practices

- Naming convention: Use extension 'sh'
- Shebang line

Exercise

- Define two variables: today and time
- Print the current user logged in and the current date/time in the following format:

vagrant@ubuntu-xenial:~\$./exercise.sh

Current User: vagrant

Date: 13-06-2018 @ 20:16:55