Exit Status

What You Will Learn

- How to check the exit status of a command.
- How to make decisions based on the status.
- How to use exit statuses in your own scripts.

Exit Status / Return Code

- Every command returns an exit status
- Range from 0 to 255
- \bullet 0 = success
- Other than 0 = error condition
- Use for error checking
- Use man or info to find meaning of exit status

Checking the Exit Status

• \$? contains the return code of the previously executed command.

```
ls /not/here
echo "$?"
```

Output:

```
HOST="google.com"
ping -c 1 $HOST
if [ "$?" -eq "0" ]
then
  echo "$HOST reachable."
else
  echo "$HOST unreachable."
fi
```

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```
HOST="google.com"
ping -c 1 $HOST
if [ "$?" -ne "0" ]
then
  echo "$HOST unreachable."
fi
```

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```
HOST="google.com"
ping -c 1 $HOST
RETURN CODE=$?
if [ "$RETURN CODE" -ne "0" ]
then
```

echo "\$HOST unreachable." fi

&& and ||

. && = AND

mkdir /tmp/bak && cp test.txt /tmp/bak/

• || = OR

cp test.txt /tmp/bak/ || cp test.txt /tmp

```
#!/bin/bash
HOST="google.com"
ping -c 1 $HOST && echo "$HOST reachable."
```

```
#!/bin/bash
HOST="google.com"
ping -c 1 $HOST || echo "$HOST unreachable."
```

The semicolon

 Separate commands with a semicolon to ensure they all get executed.

```
cp test.txt /tmp/bak/; cp test.txt /tmp
# Same as:
cp test.txt /tmp/bak/
cp test.txt /tmp
```

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Exit Command

- Explicitly define the return code
 - exit 0
 - exit 1
 - exit 2
 - exit 255
 - 。 etc...
- The default value is that of the last command executed.

```
#!/bin/bash
HOST="google.com"
ping -c 1 $HOST
if [ "$?" -ne "0" ]
then
 echo "$HOST unreachable."
 exit 1
exit 0
```

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Summary

- . All command return an exit status
- . 0 255
- \cdot 0 = success
- Other than 0 = error condition
- \$? contains the exit status
- Decision making if, &&,||
- exit

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