Shell Script

```
#!/bin/bash


if [ "$#" = "0" ];
 then
 echo "Usage: $0  "
 exit 1
 fi


host=$1
 port=$2
 email="test@linoxide.com"
 subject="Script result"


if  ping -q -c 4  $host >/dev/null
 then


ping_result="OK"
 else
 ping_result="NOT OK"


fi


nc_result=`nc -z $host  $port; echo $?`
```

```
if [ $nc_result != 0 ];
 then
 port_result="not opened"
 else
 port_result="opened"
 fi



message="Ping to host - ${ping_result}, port $port ${port_result}."



if [ "$ping_result" != "OK" -o "$nc_result" != "0" ];
 then
 echo "$message"



echo "$message" | mail -s "$subject" $email



fi
```

Script Output

Ping to localhost and check is 22 port opened (ssh server)

```
bobbin@linoxide:/$ ./script 127.0.0.1 22
 Ping to host - OK, port 22 not opened.
 desktop:~/$
```

Learning Shell Script

#Check if service name passed to script as argument, if there no arguments (0) do next

```
if [ "$#" = "0" ];
```

then

#Write to terminal usage

echo “Usage: $0 ”

#Since no arguments – we need to exit script and user re-run

exit 1
 fi

#Writing parameters to variables

host=$1
 port=$2
 email=”test@linoxide.com”
 subject=”Script result”

#Check if ping ok -q to quite mod, -c 4 for 4 checks

if ping -q -c 4 $host >/dev/null
 then

#Next lines writes result variable

```
ping_result=”OK”
 else
 ping_result=”NOT OK”


fi
```

#Next command check if port opened via nc command, and getting exit status of nc command

```
nc_result=`nc -z $host $port; echo $?`
```

#Check of exit status of nc command, and write results to variables

```
if [ $nc_result != 0 ];
 then
 port_result=”not opened”
 else
 port_result=”opened”
 fi
```

#Writing message that script will email and write to output

```
message=”Ping to host – ${ping_result}, port $port ${port_result}.”
```

#Next check if ping or port check is failed (ping if not OK and exit status of nc if not 0)

```
if [ "$ping_result" != "OK" -o "$nc_result" != "0" ];
 then
```

```
 echo “$message” #this line write warning message to terminal


echo “$message” | mail -s “$subject” $email #this line send email


fi
```