

# Shell Script : Check Ping To Remote Host And Port Opened

Written by BiRU

Wednesday, 03 August 2016 13:53 -

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## Shell Script

```
#!/bin/bash
```

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

```
host=$1  
port=$2  
email="test@linuxide.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 $?`
```

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```
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@linuxide:/$ ./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" ];
```

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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@linuxide.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**

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```
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
```

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```
echo "$message" #this line write warning message to terminal
```

```
echo "$message" | mail -s "$subject" $email #this line send email
```

```
fi
```