

```
mca@localhost:~
File Edit View Search Terminal Help

[mca@localhost ~]$ hostname
localhost.localdomain
[mca@localhost ~]$ hostname -f
localhost
[mca@localhost ~]$ hostname -i
::1 127.0.0.1
[mca@localhost ~]$ netstat -a
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 localhost:pmcd          0.0.0.0:*               LISTEN
tcp        0      0 localhost:dey-sapi      0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:sunrpc          0.0.0.0:*               LISTEN
tcp        0      0 localhost.locald:domain 0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:ssh             0.0.0.0:*               LISTEN
tcp        0      0 localhost:ipp           0.0.0.0:*               LISTEN
tcp        0      0 localhost.localdo:39556 maa05s12-in-f3.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:49726 maa05s24-in-f14.1:https TIME_WAIT
tcp        0      0 localhost.localdo:46398 maa05s22-in-f4.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:39208 maa05s09-in-f14.1:https ESTABLISHED
tcp        0      0 localhost.localdo:39632 maa03s28-in-f5.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:56464 maa05s19-in-f1.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:56036 ec2-52-13-69-101.:https ESTABLISHED
tcp        0      0 localhost.localdo:39630 maa03s28-in-f5.1e:https TIME_WAIT
tcp        0      0 localhost.localdo:60376 76.237.120.34.bc.:https TIME_WAIT
tcp        0      0 localhost.localdo:60610 maa03s38-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:46280 maa03s36-in-f3.1e:https ESTABLISHED
tcp        0      0 localhost.localdo:57880 201.181.244.35.bc:https TIME_WAIT
tcp        0      0 localhost.localdo:40130 maa03s41-in-f10.1:https TIME_WAIT
tcp        0      0 localhost.localdo:48364 bom12s18-in-f14.1:https TIME_WAIT
tcp        0      0 localhost.localdo:55880 maa05s24-in-f5.1e:https ESTABLISHED
tcp        0      0 localhost.localdo:46196 maa03s36-in-f3.1e:https TIME_WAIT
tcp        1      0 localhost.localdo:53108 master1.openshift:https CLOSE_WAIT
tcp        0      0 localhost.localdo:49356 maa05s21-in-f14.1:https TIME_WAIT
tcp6       0      0 localhost:pmcd          [::]:*                  LISTEN
tcp6       0      0 [::]:mysqlx             [::]:*                  LISTEN
tcp6       0      0 localhost:dey-sapi      [::]:*                  LISTEN
tcp6       0      0 [::]:mysql               [::]:*                  LISTEN
tcp6       0      0 [::]:sunrpc              [::]:*                  LISTEN
```

```
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```

File	Edit	View	Search	Terminal	Help
unix	3	[]	STREAM	CONNECTED	63686 /run/user/1000/bus
unix	3	[]	STREAM	CONNECTED	59806 /run/dbus/system_bus_socket
unix	3	[]	STREAM	CONNECTED	39230 /var/lib/pcp/pccd/root.socket
unix	2	[]	DGRAM		31268
unix	3	[]	STREAM	CONNECTED	29305

Active Bluetooth connections (servers and established)

Proto	Destination	Source	State	PSM	DCID	SCID	IMTU	OMTU	Security
Proto	Destination	Source	State	Channel					
[mca@localhost ~]\$ netstat -at									
Active Internet connections (servers and established)									
Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State				
tcp	0	0	localhost:pmcd	0.0.0.0:*	LISTEN				
tcp	0	0	localhost:dey-sapi	0.0.0.0:*	LISTEN				
tcp	0	0	0.0.0.0:sunrpc	0.0.0.0:*	LISTEN				
tcp	0	0	localhost.locald:domain	0.0.0.0:*	LISTEN				
tcp	0	0	0.0.0.0:ssh	0.0.0.0:*	LISTEN				
tcp	0	0	localhost:ipp	0.0.0.0:*	LISTEN				
tcp	0	0	localhost.localdo:39208	maa05s09-in-f14.1:https	ESTABLISHED				
tcp	0	0	localhost.localdo:39632	maa03s28-in-f5.1e:https	TIME_WAIT				
tcp	0	0	localhost.localdo:56464	maa05s19-in-f1.1e:https	TIME_WAIT				
tcp	0	0	localhost.localdo:56036	ec2-52-13-69-101.:https	ESTABLISHED				
tcp	0	0	localhost.localdo:39630	maa03s28-in-f5.1e:https	TIME_WAIT				
tcp	0	0	localhost.localdo:60610	maa03s38-in-f10.1:https	TIME_WAIT				
tcp	0	0	localhost.localdo:46280	maa03s36-in-f3.1e:https	TIME_WAIT				
tcp	0	0	localhost.localdo:57880	201.181.244.35.bc:https	TIME_WAIT				
tcp	0	0	localhost.localdo:40130	maa03s41-in-f10.1:https	TIME_WAIT				
tcp	0	0	localhost.localdo:55880	maa05s24-in-f5.1e:https	ESTABLISHED				
tcp	1	0	localhost.localdo:53108	master1.openshift:https	CLOSE_WAIT				
tcp	0	0	localhost.localdo:49356	maa05s21-in-f14.1:https	TIME_WAIT				
tcp6	0	0	localhost:pmcd	:::*	LISTEN				
tcp6	0	0	:::mysqlx	:::*	LISTEN				
tcp6	0	0	localhost:dey-sapi	:::*	LISTEN				
tcp6	0	0	:::mysql	:::*	LISTEN				
tcp6	0	0	:::sunrpc	:::*	LISTEN				
tcp6	0	0	:::ssh	:::*	LISTEN				
tcp6	0	0	localhost:ipp	:::*	LISTEN				

```
[mca@localhost ~]$ netstat -au
```

Active Internet connections (servers and established)

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```
[mca@localhost ~]$ netstat -au
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
udp      0      0 0.0.0.0:46170           0.0.0.0:*
udp      0      0 0.0.0.0:mdns            0.0.0.0:*
udp      0      0 0.0.0.0:38169           0.0.0.0:*
udp      0      0 0.0.0.0:34971           0.0.0.0:*
udp      0      0 localhost.locald:domain 0.0.0.0:*
udp      0      0 0.0.0.0:bootps          0.0.0.0:*
udp      0      0 0.0.0.0:sunrpc           0.0.0.0:*
udp      0      0 0.0.0.0:41139           0.0.0.0:*
udp      0      0 localhost:323           0.0.0.0:*
udp      0      0 0.0.0.0:57678           0.0.0.0:*
udp6     0      0 [::]:mdns               [::]:*
udp6     0      0 [::]:36735              [::]:*
udp6     0      0 [::]:sunrpc              [::]:*
udp6     0      0 localhost:323           [::]:*

[mca@localhost ~]$ ifconfig -a
bond0: flags=5123<UP,BROADCAST,MASTER,MULTICAST> mtu 1500
    inet 172.20.3.120 netmask 255.255.0.0 broadcast 172.20.255.255
    ether 86:63:50:da:c7:eb txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp2s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.20.3.29 netmask 255.255.0.0 broadcast 172.20.255.255
    inet6 fe80::dacb:8aff:fe40:40b0 prefixlen 64 scopeid 0x20<link>
    ether d8:cb:8a:40:40:b0 txqueuelen 1000 (Ethernet)
    RX packets 133098 bytes 14745726 (14.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6087 bytes 1101334 (1.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 435

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
```

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```
    inet6 fe80::dacb:8aff:fe40:40b0 prefixlen 64 scopeid 0x20<link>
    ether d8:cb:8a:40:40:b0 txqueuelen 1000 (Ethernet)
    RX packets 133098 bytes 14745726 (14.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6087 bytes 1101334 (1.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 435

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 8 bytes 480 (480.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 8 bytes 480 (480.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

virbr0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 192.168.122.1 netmask 255.255.255.0 broadcast 192.168.122.255
    ether 52:54:00:54:bf:03 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[mca@localhost ~]$ nslookup google.com
Server:      172.16.0.254
Address:     172.16.0.254#53

Non-authoritative answer:
Name:   google.com
Address: 142.250.76.78
Name:   google.com
Address: 2404:6800:4007:815::200e

[mca@localhost ~]$ traceroute google.com
bash: traceroute: command not found...
Install package 'traceroute' to provide command 'traceroute'? [N/y] n
```

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Install package 'traceroute' to provide command 'traceroute'? [N/y] n

```
[mca@localhost ~]$ ls -lrt | grep ^- | awk 'END {print $NF}'
```

```
palindrom.sh
```

```
[mca@localhost ~]$ ping -c 5 www.google.com
```

```
PING www.google.com (142.250.182.132) 56(84) bytes of data.
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=1 ttl=116 time=34.7 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=2 ttl=116 time=35.10 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=3 ttl=116 time=31.1 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=4 ttl=116 time=29.3 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=5 ttl=116 time=29.2 ms
```

```
--- www.google.com ping statistics ---
```

```
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
```

```
rtt min/avg/max/mdev = 29.247/32.073/35.984/2.783 ms
```

```
[mca@localhost ~]$ awk '{print}' palindrom.sh
```

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

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

```
echo "Enter the number"
```

```
read n
```

```
function palindrome
```

```
{
```

```
number=$n
```

```
reverse=0
```

```
while [ $n -gt 0 ]
```

```
do
```

```
a=`expr $n % 10`
```

```
n=`expr $n / 10`
```

```
reverse=`expr $reverse \* 10 + $a`
```

```
done
```

```
echo $reverse
```

```
if [ $number -eq $reverse ]
```

```
then
```

```
    echo "Number is palindromeindrome"
```

```
else
```

```
    echo "Number is not palindromeindrome"
```

```
fi
```

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```
[mca@localhost ~]$ nslookup google.com
```

```
Server:      172.16.0.254
```

```
Address:     172.16.0.254#53
```

```
Non-authoritative answer:
```

```
Name:   google.com
```

```
Address: 142.250.76.78
```

```
Name:   google.com
```

```
Address: 2404:6800:4007:815::200e
```

```
[mca@localhost ~]$ traceroute google.com
```

```
bash: traceroute: command not found...
```

```
Install package 'traceroute' to provide command 'traceroute'? [N/y] n
```

```
[mca@localhost ~]$ ls -lrt | grep ^- | awk 'END {print $NF}'
```

```
palindrom.sh
```

```
[mca@localhost ~]$ ping -c 5 www.google.com
```

```
PING www.google.com (142.250.182.132) 56(84) bytes of data.
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=1 ttl=116 time=34.7 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=2 ttl=116 time=35.10 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=3 ttl=116 time=31.1 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=4 ttl=116 time=29.3 ms
```

```
64 bytes from maa05s22-in-f4.1e100.net (142.250.182.132): icmp_seq=5 ttl=116 time=29.2 ms
```

```
--- www.google.com ping statistics ---
```

```
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
```

```
rtt min/avg/max/mdev = 29.247/32.073/35.984/2.783 ms
```

```
[mca@localhost ~]$ awk '{print}' palindrom.sh
```

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

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

```
echo "Enter the number"
```

```
read n
```

```
function palindrome
```

```
{
```

```
number=$n
```

```
reverse=0
```

```
while [ $n -gt 0 ]
```

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```
[mca@localhost ~]$ awk '{print}' palindrom.sh
```

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

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

```
echo "Enter the number"
```

```
read n
```

```
function palindrome
```

```
{
```

```
number=$n
```

```
reverse=0
```

```
while [ $n -gt 0 ]
```

```
do
```

```
a=`expr $n % 10`
```

```
n=`expr $n / 10`
```

```
reverse=`expr $reverse \* 10 + $a`
```

```
done
```

```
echo $reverse
```

```
if [ $number -eq $reverse ]
```

```
then
```

```
    echo "Number is palindromeindrome"
```

```
else
```

```
    echo "Number is not palindromeindrome"
```

```
fi
```

```
}
```

```
r=`palindrome $n`
```

```
echo "$r"
```

```
[mca@localhost ~]$ awk '{for ( i=1; i<NF; i++ ) a[$i]++; }'
```

```
> END
```

```
> {for (i in a ) { print i,a[i];}}'palindrom.sh
```

```
awk: cmd. line:3: END blocks must have an action part
```

```
awk: cmd. line:3: {for (i in a ) { print i,a[i];}}palindrom.sh
```

```
awk: cmd. line:3: ^ syntax error
```

```
[mca@localhost ~]$ awk '{for (i=1;i<=NF;i++)a[$i]++;}END{for (i in a){print i,a[i];}}' palindrom.sh
```

```
$reverse 3
```

```
read 1
```

```
r=`palindrome 1`
```

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```
[mca@localhost ~]$ awk '{for ( i=1; i<NF; i++ ) a[$i]++; }  
> END  
> {for (i in a ) { print i,a[i];}}'palindrom.sh  
awk: cmd. line:3: END blocks must have an action part  
awk: cmd. line:3: {for (i in a ) { print i,a[i];}}palindrom.sh  
awk: cmd. line:3:                                     ^ syntax error  
[mca@localhost ~]$ awk '{for (i=1;i<=NF;i++)a[$i]++;}END{for (i in a){print i,a[i];}}' palindrom.sh  
$reverse 3  
read 1  
r=`palindrome 1  
-eq 1  
"$r" 1  
function 1  
-gt 1  
if 1  
10 3  
the 1  
"Enter 1  
reverse=`expr 1  
% 1  
is 2  
#!/bin/bash 2  
n=`expr 1  
+ 1  
a=`expr 1  
/ 1  
0 1  
palindromeindrome" 2  
number" 1  
"Number 2  
then 1  
$number 1  
do 1  
fi 1  
else 1  
number=$n 1  
while 1  
[ 2
```




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```
the 1
"Enter 1
reverse=`expr 1
% 1
is 2
#!/bin/bash 2
n=`expr 1
+ 1
a=`expr 1
/ 1
0 1
palindromeindrome" 2
number" 1
"Number 2
then 1
$number 1
do 1
fi 1
else 1
number=$n 1
while 1
[ 2
$n` 1
not 1
] 2
` 2
done 1
reverse=0 1
palindrome 1
$n 3
$a` 1
n 1
\* 1
echo 5
{ 1
} 1
[mca@localhost ~]$
```