
Subject: Outbound IPv6 -> Permission Denied
Posted by [optize](#) on Wed, 03 Aug 2011 03:17:01 GMT
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I have an interesting problem.

IPv6 works on the VPS node:

```
[root@vz01 ~]# telnet ipv6.google.com 80
Trying 2001:4860:4001:803::1010...
Connected to ipv6.l.google.com (2001:4860:4001:803::1010).
Escape character is '^'.
```

IPv6 ICMP works on the VPS:

```
[root@hub3 /]# ping6 ipv6.google.com
PING ipv6.google.com(2001:4860:4001:803::1010) 56 data bytes
64 bytes from 2001:4860:4001:803::1010: icmp_seq=1 ttl=54 time=20.5 ms
64 bytes from 2001:4860:4001:803::1010: icmp_seq=2 ttl=54 time=20.8 ms
```

IPv6 TCP fails due to permission denied:

```
[root@hub3 /]# telnet ipv6.google.com 80
Trying 2001:4860:4001:803::1010...
telnet: connect to address 2001:4860:4001:803::1010: Permission denied
```

Anyone run into this before? iptables is off.

Subject: Re: Outbound IPv6 -> Permission Denied
Posted by [shaggy63](#) on Thu, 04 Aug 2011 04:03:17 GMT
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post the following:
output from iptables --list
sysctl.conf

Subject: Re: Outbound IPv6 -> Permission Denied
Posted by [shaggy63](#) on Thu, 04 Aug 2011 04:18:48 GMT
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/etc/init.d/ip6tables stop

ip6tables isn't installed;

```
[root@hub3 /]# ip6tables --list -n
-bash: ip6tables: command not found
```

```
[root@hub3 /]# service ip6tables stop
ip6tables: unrecognized service
```

```
[root@hub3 /]# iptables --list -n
Chain INPUT (policy ACCEPT)
target    prot opt source                destination
```

```
Chain FORWARD (policy ACCEPT)
target    prot opt source                destination
```

```
Chain OUTPUT (policy ACCEPT)
target    prot opt source                destination
```

```
[root@hub3 /]# cat /etc/sysctl.conf
# Kernel sysctl configuration file for Red Hat Linux
#
# For binary values, 0 is disabled, 1 is enabled.  See sysctl( and
# sysctl.conf(5) for more details.

# Controls IP packet forwarding
net.ipv4.ip_forward = 0

# Controls source route verification
# net.ipv4.conf.default.rp_filter = 1

# Do not accept source routing
# net.ipv4.conf.default.accept_source_route = 0

# Controls the System Request debugging functionality of the kernel
# kernel.sysrq = 0

# Controls whether core dumps will append the PID to the core filename.
# Useful for debugging multi-threaded applications.
# kernel.core_uses_pid = 1

# Controls the use of TCP syncookies
net.ipv4.tcp_syncookies = 1

# Disable netfilter on bridges.
net.bridge.bridge-nf-call-ip6tables = 0
```

```
net.bridge.bridge-nf-call-iptables = 0
net.bridge.bridge-nf-call-arptables = 0
[root@hub3 /]#
```

This is a brand new VPS off the OpenVZ templates.

Subject: Re: Outbound IPv6 -> Permission Denied
Posted by [optimize](#) on Thu, 04 Aug 2011 18:32:21 GMT
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shaggy63 wrote on Thu, 04 August 2011 00:18/etc/init.d/ip6tables stop

That was it... However on the VPS host node.

Didn't realize having firewall rules on the host node would cause the actual VPS to have firewalled off as well.

Thanks.

Subject: Re: Outbound IPv6 -> Permission Denied
Posted by [grin](#) on Wed, 20 Jan 2016 10:26:53 GMT
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As a sidenote the same effect can be observed (ipv6 connect gets EPERM or permission denied) when any firewall on the way rejects the packets with "reject-with icmp6-adm-prohibited".

The icmp6 comes back and the OS gives you "permission denied". Quite confusing result ["permission denied" usually means local permissions, not external ones] but kind of correct.