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[SOLVED] Allowing multicast in iptables

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[SOLVED] Allowing multicast in iptables

📄 by **lgs-it** » 2012/10/12 07:18:53

Hello, guys!

My question is related to multicasts and iptables.

I want to allow ICMP and IGMP multicasts from the local VLAN as well as from 0.0.0.0 on my CentOS machine, so I added the following rules to my inbound chain:

CODE: SELECT ALL

```
# ACCEPT - Multicast 224.0.0.1 from current VLAN as well as 0.0.0.0
# -- ICMP
iptables -A IP-INPUT -s 192.168.1.0/24 -d 224.0.0.1 -m pkttype --pkt-type multicast --protocol icmp -j
ACCEPT
iptables -A IP-INPUT -s 0.0.0.0        -d 224.0.0.1 -m pkttype --pkt-type multicast --protocol icmp -j
ACCEPT
# -- IGMP

iptables -A IP-INPUT -s 192.168.1.0/24 -d 224.0.0.1 -m pkttype --pkt-type multicast --protocol igmp -j
ACCEPT
iptables -A IP-INPUT -s 0.0.0.0        -d 224.0.0.1 -m pkttype --pkt-type multicast --protocol igmp -j
ACCEPT
```

lgs-it

But that does not seem to work ... I'm getting denies:

CODE: SELECT ALL

```
Oct 12 09:06:22 192.168.1.102 IPTABLES: :: IN::DENY    2          0.0.0.0       ==>          224.0.0.1
```

I noticed that the deny line shows the protocol number ("2") instead of its name ("IGMP"), but that does not seem to matter. If I replace "--protocol igmp" in the rules with "--protocol 2" it's the same.

After some googling I also noticed some people do it this way, but it also does not work for me:

CODE: SELECT ALL

```
# ACCEPT - Multicast 224.0.0.1 from current VLAN as well as 0.0.0.0
ipt -A IP-INPUT -s 192.168.1.0/24 -d 224.0.0.1 -j ACCEPT
ipt -A IP-INPUT -s 0.0.0.0        -d 224.0.0.1 -j ACCEPT
```

Can anyone help me? Thanks in advance!

[SOLVED] Allowing multicast in iptables

by **AlanBartlett** » 2012/10/13 00:10:49

Thread moved from *CentOS 6 – Security Support* to a more appropriate location of *CentOS 6 – Networking Support.*

AlanBartlett
Forum Moderator

Posts: 9311
Joined: 2007/10/22 11:30:09
Location: ~/Earth/UK/England/Suffolk
Contact:

Re: Allowing multicast in iptables

by **lgs-it** » 2012/10/15 09:31:54

lgs-it

@Alan:

Thank you, I was not sure where I shall post my problem, due to the fact that it is related to networking and security.

@all:

I just found the following alternative form of spelling:

CODE: SELECT ALL

```
0.0.0.0/0
```

instead of

CODE: SELECT ALL

```
0.0.0.0
```

but that did not work either.

I just realized that when I execute **iptables -L** the **0.0.0.0/0** way is listed as

CODE: SELECT ALL

```
ACCEPT     icmp --  anywhere            all-systems.mcast.net PKTTYPE = multicast
```

while **0.0.0.0** way is listed as

CODE: SELECT ALL

```
ACCEPT     icmp --  default             all-systems.mcast.net PKTTYPE = multicast
```

So, I guess **0.0.0.0/0** is the way to go. Maybe someone can help me, I'm baffled (but still googling 😉).

Thanks in advance!

Re: [SOLVED] Allowing multicast in iptables

by **lgs-it** » 2013/07/22 14:18:25

lgs-it

I've finally found a solution. 😬

CODE: SELECT ALL

```
iptables -A INPUT -s 224.0.0.0/4 -j ACCEPT
iptables -A INPUT -d 224.0.0.0/4 -j ACCEPT
iptables -A INPUT -s 240.0.0.0/5 -j ACCEPT
iptables -A INPUT -m pkttype --pkt-type multicast -j ACCEPT
iptables -A INPUT -m pkttype --pkt-type broadcast -j ACCEPT
```

These are the first rules appended to the default **INPUT** chain, before defining further user-defined ones.

Of course, **DROP** also works if you want to deny broadcasts and multicasts.

[Moderator edited to correct the typo.]

Re: [SOLVED] Allowing multicast in iptables
by **lgs-it** » 2013/07/24 09:42:22

I just noticed a typo in my last post.

Of course, the first line

CODE: SELECT ALL

```
ipt -A INPUT -s 224.0.0.0/4 -j ACCEPT
```

must start with **iptables** instead of **ipt**:

CODE: SELECT ALL

```
iptables -A INPUT -s 224.0.0.0/4 -j ACCEPT
```

lgs-it

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