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Subject: OpenVZ, Bind and stalling TCP connections.  
Posted by [agl241](#) on Wed, 24 Sep 2008 16:10:53 GMT  
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Hi

After migration of our DNS servers to OpenVZ we have noticed that on one of our DNS server zone transfer stops working after few our after starting. New TCP connections are created but after initial handshake no traffic is sent by server to client (e.g. client command: host -l domain.pl) - so zone transfer doesn't work anymore. The one solution is to restart the server. After tcpdumping the stalling connections I've noticed that client AXFR requests reaches the server, but the server doesn't ack received packets, it continuously sends SYN,ACK packets. Isn't it the symptom of overrunning application TCP receive buffer? All other connections doesn't stop to run.

```
0:22:06.784637 IP CLIENT.56555 > SERVER.53: S 259415162:259415162(0) win 5840 <mss
1460,sackOK,timestamp 2309875204 0,nop,wscale 7>
10:22:06.784694 IP SERVER.53 > CLIENT.56555: S 3981433138:3981433138(0) ack
259415163 win 5792 <mss 1460,sackOK,timestamp 72583240 2309875204,nop,wscale 4>
10:22:06.784876 IP CLIENT.56555 > SERVER.53: . ack 1 win 46 <nop,nop,timestamp
2309875204 72583240>
10:22:06.784879 IP CLIENT.56555 > SERVER.53: P 1:29(28) ack 1 win 46 <nop,nop,timestamp
2309875204 72583240> 21415 AXFR? atman.pl. (26)
10:22:06.986488 IP CLIENT.56555 > SERVER.53: P 1:29(28) ack 1 win 46 <nop,nop,timestamp
2309875405 72583240> 21415 AXFR? atman.pl. (26)
10:22:07.389585 IP CLIENT.56555 > SERVER.53: P 1:29(28) ack 1 win 46 <nop,nop,timestamp
2309875808 72583240> 21415 AXFR? atman.pl. (26)
10:22:08.193482 IP CLIENT.56555 > SERVER.53: P 1:29(28) ack 1 win 46 <nop,nop,timestamp
2309876612 72583240> 21415 AXFR? atman.pl. (26)
10:22:09.801451 IP CLIENT.56555 > SERVER.53: P 1:29(28) ack 1 win 46 <nop,nop,timestamp
2309878220 72583240> 21415 AXFR? atman.pl. (26)
10:22:10.311252 IP SERVER.53 > CLIENT.56555: S 3981433138:3981433138(0) ack
259415163 win 5792 <mss 1460,sackOK,timestamp 72586767 2309878220,nop,wscale 4>
10:22:10.311502 IP CLIENT.56555 > SERVER.53: . ack 1 win 46 <nop,nop,timestamp
2309878730 72586767,nop,nop,sack 1 {0:1}>
```

The system is Debian Etch , Bind version: 9.3.4-2etch3 (standard package).  
The same problem appears both with newest kernel from  
openvz.org debian-systs repository (v. 028stab053.dso2) and vanilla linux kernel patched with  
2.6.18-028stab056 openvz.

Looking forward for your advice.

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Andrzej Lemieszek

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