

APRICOT DNS Setup

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APRICOT 2012 Lightning Talk

DNS Setup

- Single box in the basement.
- Running FreeBSD 9.0
- Has 11 VLAN's configured on the system and acts as a gateway for the various APRICOT networks.
- Also handles DHCP, Radius.
- Needed to serve recursive DNS for all the networks

So, we had issues.

- First tried unbound for recursive DNS.
 - Encountered issue where we couldn't listen on "any" IPv6 addresses
 - IPv4 worked as expected.
- Then we tried BIND
 - Needed to be authoritative for the conference.apricot.net zone.
 - Encountered the same problem.

Solution

- After lots of frustration, we found a workaround by listing the individual IPv6 addresses.

```
// listen-on      { any; };  
listen-on-v6     { 2001:df9:1::4; 2001:df9:a::4;  
                  2001:df9:c::194; 2001:df9:cafe::4;  
                  2001:df9:abba::4; 2001:df9:dead::4;  
                  2001:df9:fade::4; 2001:df9:b00c::4;  
                  2001:df9:21::4; };
```

But this is suboptimal...

- Had a chat with both the BIND and FreeBSD developers.
- Looks like it's a issue with IPv6 addresses on VLAN interfaces in FreeBSD being recognized.
- This doesn't affect IPv4 addresses on these same interfaces.
- Bug report opened with FreeBSD

Thanks...

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