Install BIND for DNS and ad-blocking on CentOS 7

This post is for installing BIND on CentOS 7 to use as a local DNS server, and including a pre-configured zone file containing over 2000 of the most common ad server domain names. Basically what will happen is when you visit a webpage that sends a request to one of these ad servers, it will redirect that request to a webserver running on this DNS server, and serve up a transparent 1×1 pixel gif file. That means the DNS request prevents the HTTP/S request from ever leaving your network, causing webpages to load a tad faster, and provide a 99.9% ad-free browsing experience!

In my setup I have SELinux disabled (sed -i /etc/selinux/config -r -e 's/^SELINUX=.*/SELINUX=disabled/g'). If you disable selinux (or firewalld), you do so at your own risk. It is not advisable to do either if your server is directly accessible on the internet (this one should not be), so please do so at your own risk! At the bottom of this post I've included the simple rules needed for firewalld.

Let's Get Started!

Installation von Updates und Voraussetzungen

```
# yum -y update && yum -y install bind httpd wget
```

Konfiguration von Bind

```
# mv /etc/named.conf /etc/named.conf.orig
# vim /etc/named.conf
```

```
acl "trusted" {
    172.16.1.0/24;
};

options {
    listen-on port 53 { any; };
    listen-on-v6 port 53 { ::1; };
    directory    "/var/named";
    dump-file    "/var/named/data/cache_dump.db";
    statistics-file "/var/named/data/named_stats.txt";
    memstatistics-file "/var/named/data/named_mem_stats.txt";
    allow-query     { any; };

    recursion yes;
    allow-recursion { trusted; };
    listen-on { 172.16.1.101; };
    allow-transfer { none; };
```

```
    dnssec-enable no;
    dnssec-validation no;
    dnssec-lookaside auto;

    bindkeys-file "/etc/named.iscdlv.key";
    managed-keys-directory "/var/named/dynamic";
    pid-file "/run/named/named.pid";
    session-keyfile "/run/named/session.key";

    forwarders {
    8.8.8.8;
    8.8.4.4;
    };
    forward first;

};

logging {
        channel default_debug {
                file "data/named.run";
                severity dynamic;
        };
};

zone "." IN {
    type hint;
    file "named.ca";
};

zone "domain.local" IN {
    type master;
    file "domain.local.zone";
};

include "/etc/named.rfc1912.zones";
include "/etc/named.root.key";
include "/var/named/blacklists/ads";
```

There are a few things in this config that you will need to customize to your environment.

1. First, at the top is an **acl config** with currently shows 172.16.1.0/24. You will need to update this to your network.
2. Second, you will need to find and **change the listen-on IP**, and set that to the IP of the server you're installing on.
3. Third, the above config has the **forwarders** server set to Google's DNS servers. If you're fine with that, no change is needed. If you want to change that, just replace the two IP's there with your ISP's DNS servers, or others.
4. Lastly, you will need to **update the "zone" config**, which is set to domain.local. Using

blitz.home as an example, it should look like this:

```
zone "blitz.home" IN {
    type master;
    file "blitz.home.zone";
};
```

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```

Last update: **2017/09/29 15:20**