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tomtom_in_eire

August 14th, 2006 07:59 AM

Howto: Setup a DNS server with bind

After looking on Ubuntu forum for an easy step-by-step howto for instaling a DNS server, I decided the best idea would probably be to write this howto myself.... So, here it is!

Step 1: Install Ubuntu dapper, or use your WORKING installation.

Step2: Install bind 9:

Code:

```
sudo apt-get install bind9
```

Step 3: Configure the main Bind files. Usually, if you install Bind from the source code, you will have to edit the file named.conf. However, Ubuntu provides you with a pre-configured Bind, so we will edit another file:

Code:

```
sudo vi /etc/bind/named.conf.local
```

This is where we will insert our zones. By the way, a zone is a domain name that is referenced in the DNS server ;)

Insert this in the named.conf.local file:

Code:

```
# This is the zone definition. replace example.com with your domain name
zone "example.com" {
    type master;
    file "/etc/bind/zones/example.com.db";
};
```

```
# This is the zone definition for reverse DNS. replace 0.168.192 with your
network address in reverse notation - e.g my network address is 192.168.0
zone "0.168.192.in-addr.arpa" {
    type master;
```

```
file "/etc/bind/zones/rev.0.168.192.in-addr.arpa";  
};
```

Ok, now, let's edit the options file:

Code:

```
sudo vi /etc/bind/named.conf.options
```

We need to modify the forwarder. This is the DNS server to which your own DNS will forward the requests he cannot process.

Code:

```
forwarders {  
    # Replace the address below with the address of your provider's DNS  
    server  
    123.123.123.123;  
};
```

Now, let's add the zone definition files (replace *example.com* with your domain name:

Code:

```
sudo mkdir /etc/bind/zones  
sudo vi /etc/bind/zones/example.com.db
```

The zone definition file is where we will put all the addresses / machine names that our DNS server will know. You can take the following example:

Code:

```
// replace example.com with your domain name. do not forget the . after  
the domain name!  
// Also, replace ns1 with the name of your DNS server  
example.com.      IN      SOA      ns1.example.com. admin.example.com. (  
// Do not modify the following lines!  
                                                         2006081401  
                                                         28800  
                                                         3600  
                                                         604800  
                                                         38400  
  
    )  
  
// Replace the following line as necessary:  
// ns1 = DNS Server name  
// mta = mail server name  
// example.com = domain name  
example.com.      IN      NS       ns1.example.com.  
example.com.      IN      MX       10      mta.example.com.
```

```
// Replace the IP address with the right IP addresses.
www          IN      A      192.168.0.2
mta          IN      A      192.168.0.3
ns1          IN      A      192.168.0.1
```

Now, let's create the reverse DNS zone file:

Code:

```
sudo vi /etc/bind/zones/rev.0.168.192.in-addr.arpa
```

Copy and paste the following text, modify as needed:

Code:

```
//replace example.com with your domain name, ns1 with your DNS server
name.
// The number before IN PTR example.com is the machine address of the DNS
server. in my case, it's 1, as my IP address is 192.168.0.1.
@ IN SOA ns1.example.com. admin.example.com. (
        2006081401;
        28800;
        604800;
        604800;
        86400
)

1          IN      NS      ns1.example.com.
          IN      PTR     example.com
```

Ok, now you just need to restart bind:

Code:

```
sudo /etc/init.d/bind9 restart
```

We can now test the new DNS server...

Step 4: Modify the file resolv.conf with the following settings:

Code:

```
sudo vi /etc/resolv.conf
```

enter the following:

Code:

```
// replace example.com with your domain name, and 192.168.0.1 with the
address of your new DNS server.
```

```
search example.com
nameserver 192.168.0.1
```

Now, test your DNS:

Code:

```
dig example.com
```

Look at the result.... Enjoy!

Also, this post is not perfect... Do not hesitate to improve it!

larka06

August 31st, 2006 09:17 PM

Re: Howto: Setup a DNS server with bind

I have setup my hp xg833, 733mhz and 384megs ram, just as you have above. I have even cut and pasted through putty. I have then set one of my other machines to go to the dns server to only have it say not able to reach the website I want to reach. Basically I am using the dns server for the intranet and the internet. I thought that once it did not find what I was looking for on the intranet it would go to the ISP, which I have set the ip addresses and host, on to the internet. Is this thinking correct? I am stumped.

Thanks larka06

email at larka51@netscape.net

I also can meet you on the IRC channel or anywhere you want me to be

hogman23

September 13th, 2006 10:09 PM

Re: Howto: Setup a DNS server with bind

One more step to get it to work:

You must rename the named.conf.local to named.conf

mekas2024

September 18th, 2006 01:46 AM

Re: Howto: Setup a DNS server with bind

Nice tutorial , i was working with this and with a tutorial that is in this page

<http://www.aboutdebian.com/dns.htm>

The thing its that im not sure if a did everything well, i dont know how to test this..

y dig mekas.com and this says the terminal:

```
dantec@ubuntu:~$ dig mekas.com
```

```
; <<>> DiG 9.3.2 <<>> mekas.com
;; global options: printcmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: SERVFAIL, id: 9469
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
;mekas.com. IN A

;; Query time: 12 msec
;; SERVER: 127.0.0.1#53(127.0.0.1)
;; WHEN: Mon Sep 18 00:42:30 2006
;; MSG SIZE rcvd: 27
```

if i dig something wrong, i get this:

```
dantec@ubuntu:~$ dig tadeo.meks.com
```

```
; <<>> DiG 9.3.2 <<>> tadeo.meks.com
;; global options: printcmd
;; connection timed out; no servers could be reached
```

I think its working, but i need to be sure, please i will appreciate if u help me, im kind of newbie in linux and i need to mount a dns server 4 a class ;)

THX a lot

Regards

MeKaS

subscr

September 20th, 2006 05:31 PM

Re: Howto: Setup a DNS server with bind

When I try and install bnd9, here is what I get..Any ideas ?

```
sudo apt-get install bind9
```

Reading package lists... Done

Building dependency tree... Done

Some packages could not be installed. This may mean that you have requested an impossible situation or if you are using the unstable distribution that some required packages have not yet been created or been moved out of Incoming.

Since you only requested a single operation it is extremely likely that the package is simply not installable and a bug report against that package should be filed.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

bind9: Depends: libdns21 (= 1:9.3.2-2ubuntu1) but 1:9.3.2-2ubuntu1.1 is to be installed

Depends: libiscfg1 (= 1:9.3.2-2ubuntu1) but 1:9.3.2-2ubuntu1.1 is to be installed

Depends: libisc11 (= 1:9.3.2-2ubuntu1) but 1:9.3.2-2ubuntu1.1 is to be installed

Depends: libisccc0 (= 1:9.3.2-2ubuntu1) but 1:9.3.2-2ubuntu1.1 is to be installed

mitjab

September 30th, 2006 01:46 PM

Re: Howto: Setup a DNS server with bind

must domain be registered or not?

Can i use no-ip.com domain?

I am using router so which port must o foward for bind server?

```
www IN A 192.168.1.5
```

```
mta IN A 192.168.1.5
```

```
ns1 IN A 192.168.1.5
```

can i use for all three the same ip and the same machine?

garbergs

October 21st, 2006 02:54 PM

Re: Howto: Setup a DNS server with bind

I also had trouble installing bind9, so I tried to write:

```
apt-get install bind
```

and that gave me version 8.4.6-1. I'm sure this will suffice for my simple home network.

Bretls

November 7th, 2006 11:27 AM

Re: Howto: Setup a DNS server with bind

Thanks for the tutorial. I have a dynu account and used this as my domain name. I believe dynu is similar to no-ip.com. I installed bind9 with synaptic in edgy, and followed your directions. Works without a problem.

jaywatkins

November 8th, 2006 05:13 PM

Re: Howto: Setup a DNS server with bind

Does this work for Edgy?

I would like to set up a "chrooted" bind server for local traffic and Internet forwarding. Would this tutorial work?

I was trying to follow on howtoforge.com regarding "A perfect setup" for Edgy 6.10 server, but ran into trouble when I came to setting up bind9. I understand DNS, just not bind.

Thx

/J

marwell

November 12th, 2006 03:12 PM

Re: Howto: Setup a DNS server with bind

Finally, what I was looking for. :)
Thanks a lot.

All times are GMT -4. The time now is 03:22 PM.

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