

IPv6 DNS – part I

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topics

- operating systems
- installation
- example configs



operating systems

- FreeBSD 4.4
- AIX
- Solaris 8



installation

◆ bind 9.2.0

- `http://www.isc.org/`

◆ installation

- `./configure --enable-ipv6`
(default is autodetect, should work)
- `make`
- `make install`



AAAA records

\$ORIGIN example.com

host1	3600	IN	AAAA	3ffe:8050:201:1860:42::1
host2	3600	IN	AAAA	3ffe:8050:201:1860:42::2



reverse lookup nibble format

```
$ORIGIN 0.6.8.1.1.0.2.0.0.5.0.8.e.f.f.3.ip6.int.
```

```
1.0.0.0.0.0.0.0.0.0.0.0.2.4.0.0 \
```

```
14400 IN PTR host1.example.com
```

```
2.0.0.0.0.0.0.0.0.0.0.0.2.4.0.0 \
```

```
14400 IN PTR host2.example.com
```



reverse lookup bitsting format

```
$ORIGIN \[x3ffe805002011860/64].ip6.arpa.
```

```
\[x0042000000000001] 14400 IN PTR host1.example.com
```

```
\[x0042000000000001] 14400 IN PTR host2.example.com
```



IPv6 specific configuration

IPv4

```
listen-on { 5.6.7.8; };
```

IPv6

```
listen-on-v6 { 1:1:1:1:1:1:1:1; };
```



IPv6 specific configuration

IPv4

```
listen-on port 1234 {  
    !1.2.3.4;  
    1.2.3/24;  
};
```

IPv6

```
listen-on-v6 port 777 {  
    2:2:2:2:2:2:2:2;  
};
```



IPv6 specific configuration

IPv4

```
query-source port * address 10.0.0.54 ;
```

IPv6

```
query-source-v6 address 8:7:6:5:4:3:2:1 port *;
```

IPv6 specific configuration

IPv4

```
transfer-source 10.0.0.5;
```

IPv6

```
transfer-source-v6 4:3:2:1:5:6:7:8;
```

