

DNS \$ORIGIN dot

Good afternoon, all!

I'm going over some BIND zone files and have run across an oddity that I haven't found a good answer. Several of these zone files have an ORIGIN directive of just a dot (.). Looks weird, I know. Here's the sanitized directives:

```
$ORIGIN .
$TTL 600      ; 10 minutes
example.com   IN SOA  ns1.example.com. support.example.com. (
    2016010101 ; serial
    28800      ; refresh (8 hours)
    120        ; retry (2 minutes)
    1209600    ; expire (2 weeks)
    86400      ; minimum (1 day)
)
```

The file seems to work OK and it passes online tests from DNSStuff. I do plan on

Any thoughts from the gurus?

Thanks to all for looking!

G


domain-name-system bind

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asked Oct 23, 2017 at 21:13


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1 Answer

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 <http://www.zytrax.com/books/dns/ch8/origin.html>

7  \$ORIGIN defines a base name from which 'unqualified' names (those without a terminating dot) substitutions are made when processing the zone file.

 When set to only a dot . that means that only a dot is going to be added/substituted. That's all.

Typically you would see:

```
$ORIGIN example.com.
@ IN NS      ns1.example.com
@ IN NS      ns2.example.com.
@ IN MX  5 mail
```

Which because the @ symbol is a shorthand for the \$ORIGIN in zone files will be completed into:

```
example.com. IN NS      ns1.example.com.example.com.
example.com. IN NS      ns2.example.com.
example.com. IN MX  5 mail.example.com.
```

Where the first line shows a typical erroneous record that will result of such substitution when the \$ORIGIN gets appended to what was intended to be a FQDN which lacked the trailing . .

Setting \$ORIGIN to a dot makes the use of the @ shorthand impractical but will prevent mishaps such as the top one.

```
$ORIGIN .  
example.com IN NS ns1.example.com.  
example.com. IN NS ns2.example.com
```

Will autocomplete/correct that into

```
example.com. IN NS ns1.example.com.  
example.com. IN NS ns2.example.com.
```

And not into

```
example.com.example.com. IN NS ns1.example.com.  
example.com. IN NS ns2.example.com.example.com.
```

which is what would have happened if the \$ORIGIN would still have been the `example.com.` domain.
