Domain Verification Techniques

DNSOP WG, IETF 116

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What is domain verification?

Many providers on the internet need users to prove that they control a particular domain before granting them some sort of privilege associated with that domain.

For e.g. ACME has a DNS-based challenge for a user to prove that they control a particular domain (and hence should be issued a cert for it)
Old: Survey

1. TXT
2. CNAME
New: BCP

1. TXT
2. CNAME
Newer: BCP

1. TXT
2. CNAME?
MUST

_foo.example.com. IN TXT "3419...3d206c4"
MUST

\_foo.example.com. IN TXT

"token=3419...3d206c4,expiry=2023-02-08T02:03:19+00:00"
MUST

_foo.example.com. IN TXT

"token=3419...3d206c4,expiry=never"
MUST

feature1._foo.example.com. IN TXT "3419...3d206c4"
MUST

Clear instructions on when the record can be removed
SHOULD

Detailed help pages
DNSSEC

- Clients SHOULD
- Service providers MUST => RECOMMEND?
Thanks!