Catalog Zones

draft-muks-dnsop-catalog-zones-04

ray@isc.org IETF101
Changes in -04

• Substantial re-structuring of the draft

• No longer requires use of crypto-hashing to generate unique prefixes

• Cleaner separation of single-valued properties vs multi-valued properties

• Bumped protocol version to "2"
Multi-valued Properties

- All multi-valued properties require a list of RRs with a unique prefix label per-entry
  - even if the list only has a single value
  - one RR per entry, no RRsets
  - ordered lists supported by lexical ordering of those labels
  - APL record still used for IP prefixes, but MUST NOT contain more than one prefix per RR.
MVP Example

$ORIGIN <m-unique>.zones.$CATZ
<unique-id-1>.example-prop 0 IN TXT "Value 1"
<unique-id-2>.example-prop 0 IN TXT "Value 2"
Implementation Status

• BIND9
  • With these updates this draft no longer reflects the current BIND9 implementation
  • BIND 9.11 and 9.12 implement version 1
  • A future release (TBD) will implement this version 2

• PowerDNS
  • plugin supporting version 1
TODO List

• Define smallest possible subset of protocol-intrinsic configuration properties

• Define mechanism for vendor-specific configuration properties
  
  • previous attempts to define a common dictionary for name server configuration (e.g. NSCP) have failed
  
  • planned direction: use 'vnd-xxx' labels

• Zone Templates, to allow multiple member zones to share the same configuration
  
  • See DNAME proposal on DNSOP list on 03/03/18
Questions?
Next Steps?