Abstract

This document describes what it means to say that a label is reserved for special use, when reserving such a label is appropriate, and the procedure for doing so. It establishes an IANA registry for such special-use labels, and seeds it with entries for some of the already established special labels.

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1. Introduction

The Domain Name System (DNS) rules for an Internet host name are specified in [RFC0952] and [RFC1123]. Underscore scoping was introduced as an alternative to circumvent the deployment issues of using a new RR type [RFC1034]. Some applications, e.g. web browsers, do not consider those underscore names as valid they do not adhere to the rules for a host name [RFC1123]. This document defines a registry to reserve special-use labels for cases where such labels are needed as a workaround.

2. Security Considerations

A wildcard such as *.example.com could match a host name where a special-use label is prepended to the domain name.

3. IANA Considerations

The DNS Special-Use Label registry entries consist of two fields: Label, RR type, and Reference. The Label has to conform to DNS rules for a label as defined in [RFC1034]. The initial assignment is as follows:

+---------------------------------------+---------+------------+
| Label                                 | RR Type | Reference  |
|---------------------------------------+---------+------------|
| root-key-sentinel-is-ta-<key-tag>    | A       | [KSK-roll] |
| root-key-sentinel-is-ta-<key-tag>    | AAAA    | [KSK-roll] |
| root-key-sentinel-not-ta-<key-tag>   | A       | [KSK-roll] |
| root-key-sentinel-not-ta-<key-tag>   | AAAA    | [KSK-roll] |
|---------------------------------------+---------+------------+
3.1. Registration Procedures

The registration policy for this registry is "IETF Review" [RFC8126] [RFC8126]. The registrant of the label should provide the following information:

- Label
- RR Type
- Reference

4. References

4.1. Normative References


4.2. Informative References


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