

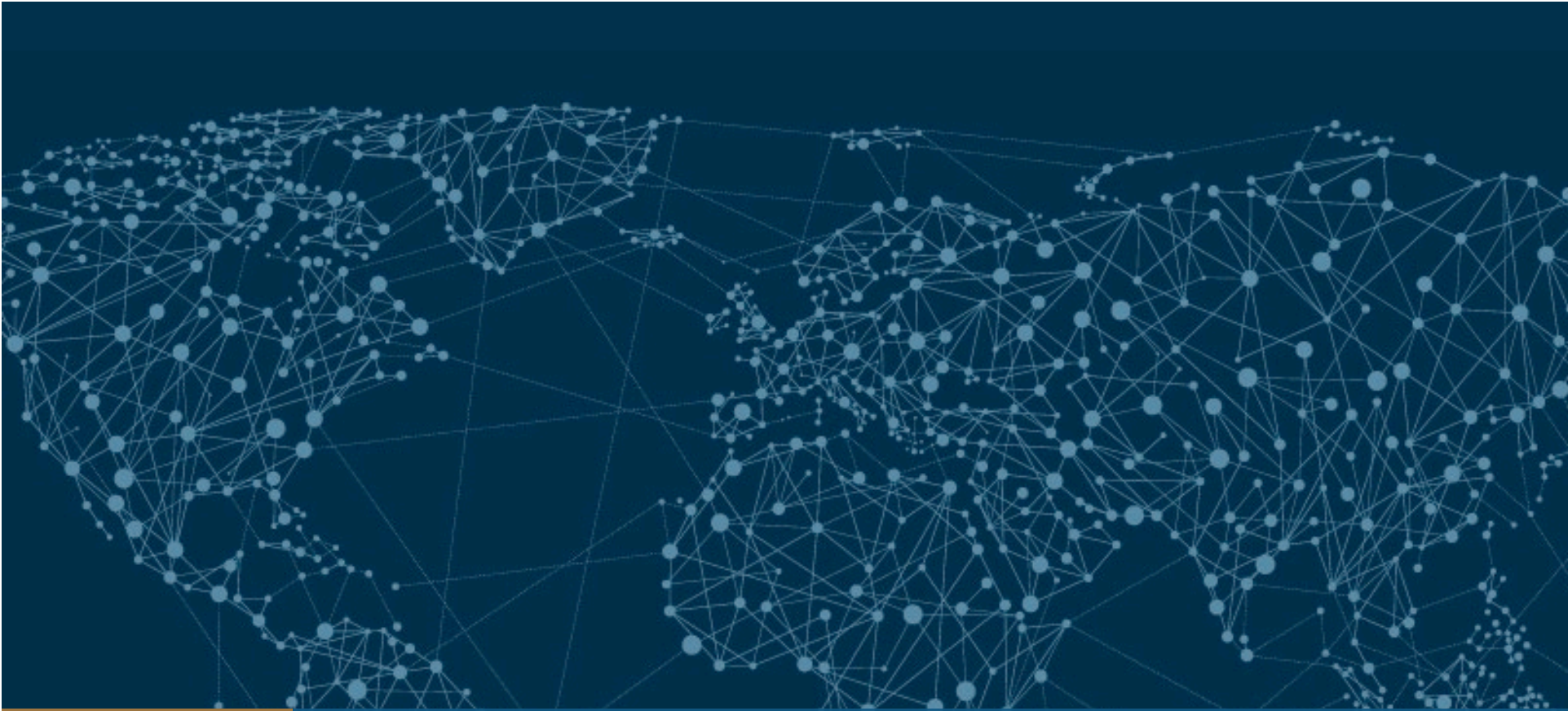


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Name Collision Mitigation

Francisco Arias | ICANN 52 | 10 February 2015

Agenda

1 Introduction & Background

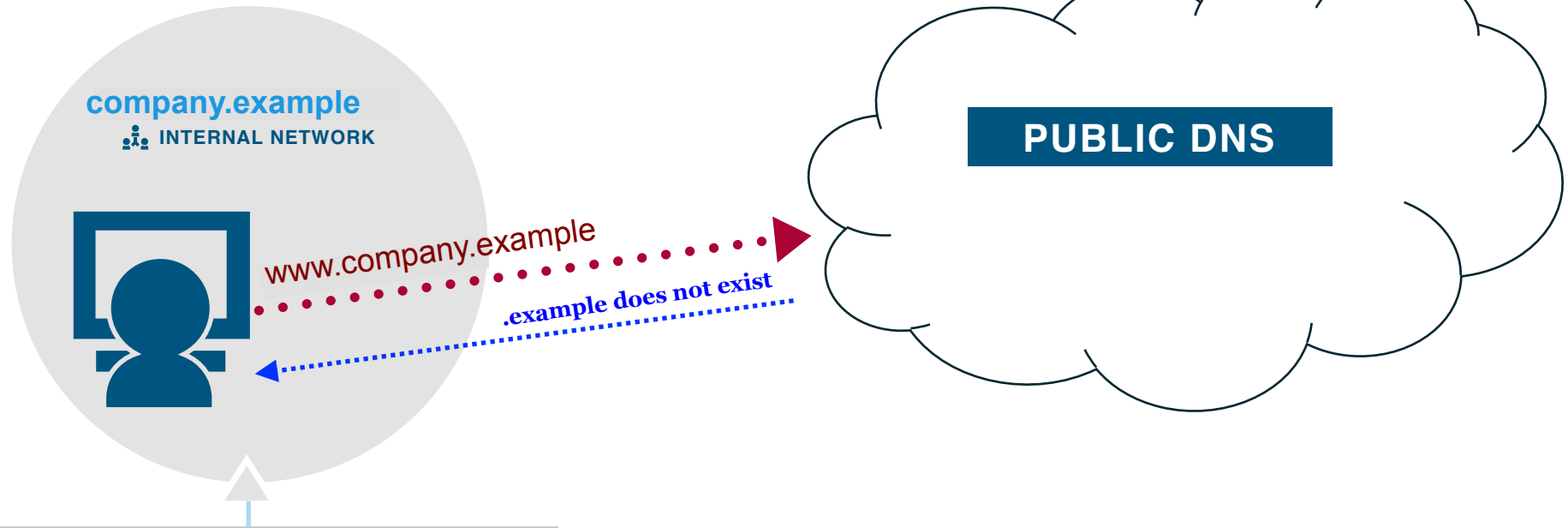
2 Recommendations for new ccTLDs

3 Questions & Answers



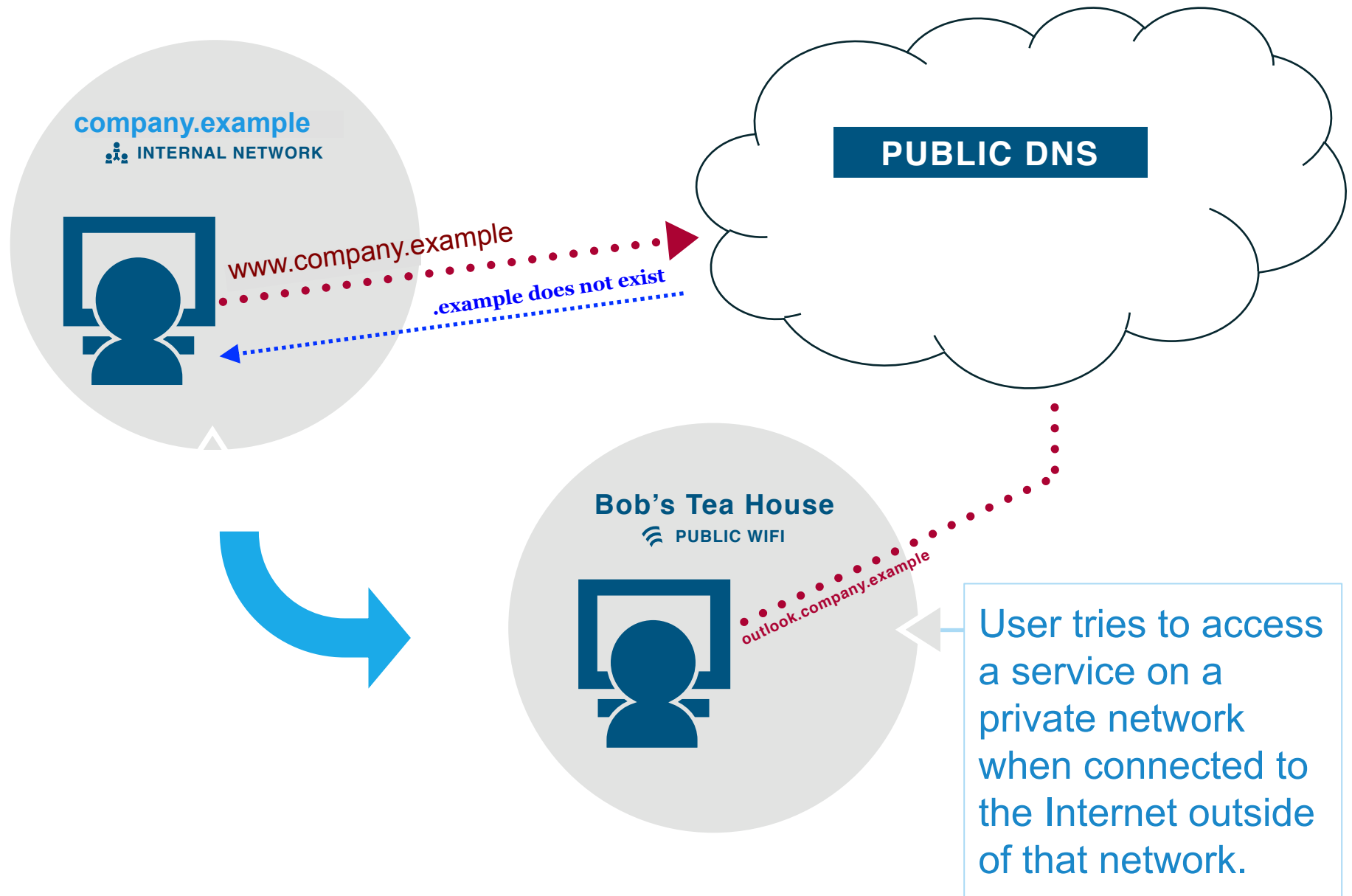
Introduction & Background

Name Collision Basics

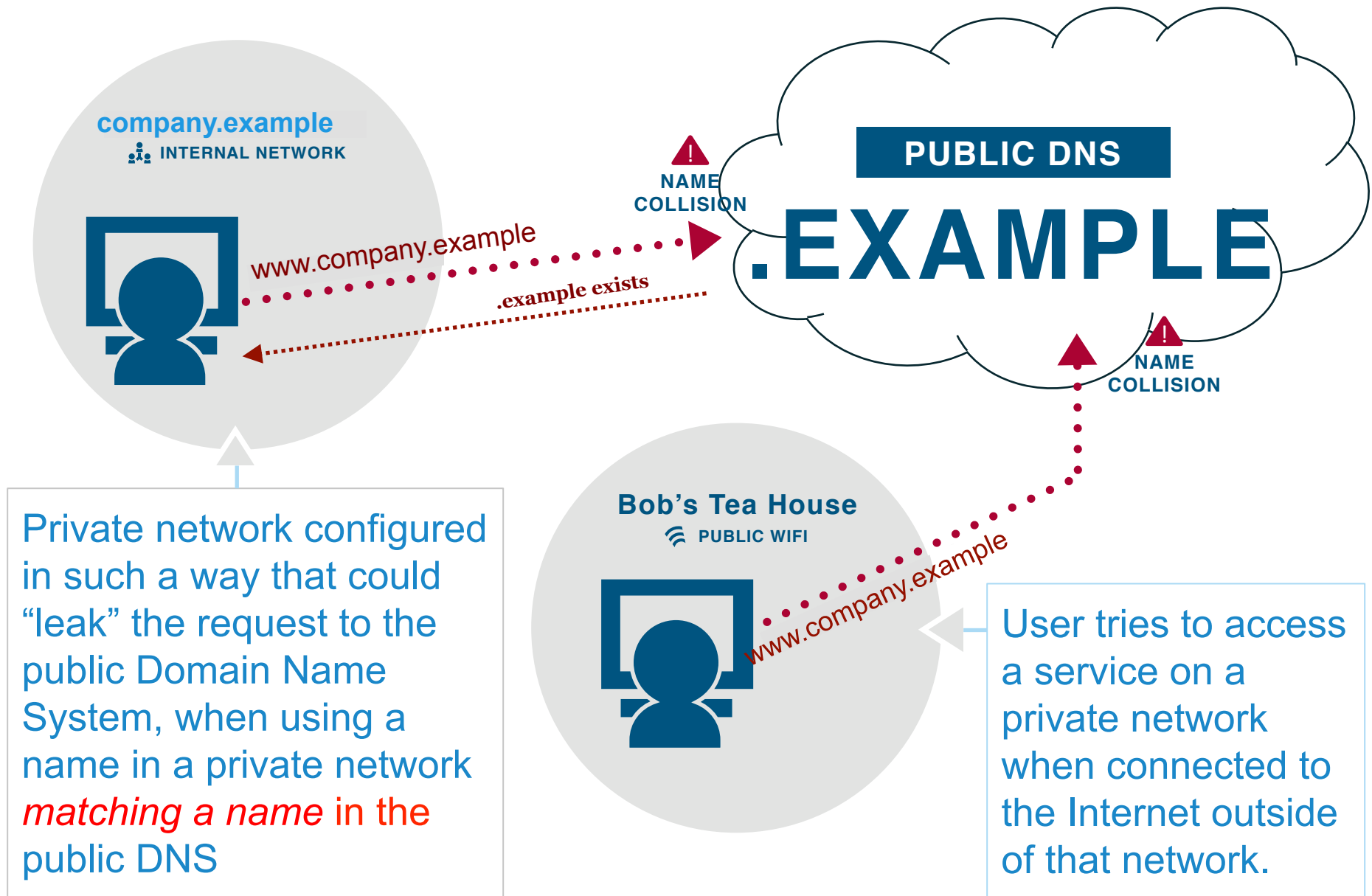


Private network configured in such a way that could “leak” the request to the public Domain Name System, when using a name in a private network that *does not exist* in the public DNS

Name Collision Basics



Name Collision Basics



Background

7 October 2013: NGPC adopted the New gTLD Collision Occurrence Management plan

- Plan Overview

- Defer delegating *.home* and *.corp* indefinitely
- **Commission a study to develop a Name Collision Occurrence Management Framework (“the Framework”)**
- **Each new gTLD registry to implement a Collision Occurrence Assessment based on the Framework**
- Provide Alternate Path to Delegation for eligible strings
- Conduct Outreach Campaign

30 July NGPC Resolution

- 1. Adopts the Framework and directs its implementation**
2. Directs undertaking a consultation re: RPM requirements for SLDs in block list, recorded in the TMCH, which were withheld from allocation during Sunrise or Claims
3. Consider policy work within GNSO re: long-term plan to manage name collisions
- 4. Share information and best practices with ccTLDs**



Recommendations for New ccTLD Managers

1. Implement Controlled Interruption

- Controlled Interruption for, at least, *90* days
 - Continuous interruption (i.e., not intermittent)
 - Use loopback address (127.0.53.53)
 - Add IPv6 option when available
- Apex and wildcard A, MX, SRV, and TXT records
- No activation of names until after controlled interruption has been completed

TLD Wildcard Controlled Interruption

```
TLD. 3600 IN MX 10 your-dns-needs-immediate-attention.TLD.  
* 3600 IN MX 10 your-dns-needs-immediate-attention.TLD.  
TLD. 3600 IN SRV 10 10 0 your-dns-needs-immediate-attention.TLD.  
* 3600 IN SRV 10 10 0 your-dns-needs-immediate-attention.TLD.  
TLD. 3600 IN A 127.0.53.53  
* 3600 IN A 127.0.53.53  
TLD. 3600 IN TXT "Your DNS configuration needs immediate  
attention see https://icann.org/namecollision"  
* 3600 IN TXT "Your DNS configuration needs immediate  
attention see https://icann.org/namecollision"
```


2. Implement Name Collision Reporting Mechanism

- To act upon cases of severe harm (e.g., clear and present danger to human life)
- For, at least, the early days of the TLD
- Examples of Temporary Measures
 - Removal of wildcard records from DNS
 - In extreme cases, removal of the TLD itself from the root zone (e.g., in case of harm caused by the TLD itself – dotless name – during the controlled interruption period)

Resources

- Guide to Name Collision Identification and Mitigation for IT Professionals
 - <https://www.icann.org/en/system/files/files/name-collision-mitigation-01aug14-en.pdf>
- Recommendations for new ccTLD managers
 - <https://www.icann.org/resources/pages/cctld-mitigation-2014-10-02-en>
- For further information, consult:
 - <https://icann.org/namecollision>

Engage with ICANN



Thank You and Questions

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