

(More) Things To Think About

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Purpose of draft

- This draft is not “architectural” in nature
- More of a list of issues that people either have or will trip over.
- Not a requirements draft - really just things to think about.

IETF Jeopardy

Routing	On the Wire	Identifiers & Locators	Names, Hosts, Endpoints, other	Legal	Security
100	100	100	100	100	100
200	200	200	200	200	200
300	300	300	300	300	300

Unlike Jeopardy...

- There are many ways to slice the categories.
None of them is perfect.

Changes

On the Wire

If you use a shim, do you fragment above or below the shim?

Can you piggyback on existing communications?

Is there an impact on traffic engineering?

On a binding update, will transport layer connections remain up?

Changes

Routing

Can your solution be aggregated site-wide?

Changes

Names, Hosts, Endpoints, Other

How to debug binding?

How does a host learn its own identity?

What if a DNS server itself is multihomed?

What additional load is placed on the name service?

What is the impact of your solution on ingress filters?

What additional binding information do applications need?

How does your solution interact with DNS caching semantics?

A word about apps

- Either the solution does not require any changes, in which case the app only deals with IP addresses, or things that look like IP addresses.
- Or the changes are hopefully clearly documented and relatively simple.
- Code fragment diffs might be nice.

Changes

Security

Does your solution introduce time-based attacks that were not previously possible?

Reference to threats draft.

Powerpoint is evil.
Power corrupts.
Powerpoint currupts
absolutely.

Edward Tufte