

BGP Autoconfiguration

Interim 2021-10-18

Agenda

- Brief review of autoconfiguration design team requirements
 - Problem Scope
 - Auto-Configuration Protocol Requirements
- Review of proposals by authors

Problem Scope

“The current target environment is BGP as used for the underlay routing protocol in data center networks. Other scenarios may be considered as part of the analysis for this work, but work on those environments will be deferred to other efforts.”

Auto-Configuration Protocol Requirements

(draft-ietf-idr-bgp-autoconf-considerations-01)

- BGP Session Transport State, from Auto-Configuration Protocol:
 - BGP Session Protocol State Version Number
 - IP addresses
 - Transport security parameters
 - GTSM [[RFC5082](#)] configuration, if any
 - Support for BFD strict mode (SHOULD)
- Session Protocol State, Discovered from BGP OPEN message:
 - AS Numbers
 - BGP Identifier
 - Supported AFI/SAFIs
 - Device Role (future extension?)

Discussion Points

- What network layer does the auto-configuration protocol run on?
- State model for the protocol:
 - Requires session?
 - Sessionless, cached?
 - Etc.
- How does it interact with the BGP FSM?