

TCP SYN Flooding Attacks and Common Mitigations

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Background

- Attack well known/understood
 - Mitigation techniques commonly implemented
- During TCP Roadmap work, this was felt to be something important to document
 - Several advisories, academic papers, etc. are available
 - But no guidance from IETF or RFC series

Status

- Accepted as WG item
 - Current version is draft-eddy-syn-flood-02
 - WG version available soon
- Goals:
 - Clear technical description of attack
 - Overview of mitigations, their implications, and advice for both implementers and network/server administrators

What's Needed?

- More WG input
 - Especially from implementors
 - Have heard from some commercial vendors and some open-source projects
 - Want to hear more, including strategies and rationale that have been used
 - Are there any real-world success stories for particular mitigations?
 - Notes on specific applications (e.g. SMTP)