NIST SP 800-207 Draft Status Update

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NIST SP 800-207 Zero Trust Architecture

• Released for public comment September 23, 2019

• Comment period ends Nov 22, 2019
  • Comment submission address goes to NIST project team

• Goal: to provide a technology neutral conceptual framework for developing zero trust architectures and strategies for enterprises
  • No direct guidance for creating or operating an enterprise ZTA strategy
Received Comments Summary

- Received from individuals, companies, and members of US government.
  - US based and International
  - Expecting most comments to come in during last week of period
- Overall positive and mostly substantive comments
  - Many included text or wording suggestions
New Material Ideas?

• Approaches to ZTA
  • Enhanced Identity – access privileges tied to ID, network open otherwise.
  • Microsegmentation using Next-Gen Firewalls (NGFW)
  • Network segmentation/SDN/network overlay approach

• Would call for another public comment period
  • Acceptable?
  • Estimate close of 2nd public comment period Jan/Feb, final publication March/April
Next Steps Using the Publication

- Use Special Publication in test lab
  - Using use cases from SP to produce test scenarios
  - May produce more material for gap analysis (Appendix A)

- Deeper dive documents
  - Focus on one aspect covered in the SP
  - SP 800-207 could become foundation for several follow on papers.
Zero Trust Gap Analysis

• We invited 17 vendors for technical demos

• Three main areas of gaps identified by vendor survey
  1. Procurement and existing security strategies
     • No current language for procurement and misconception that ZTA conflicts with current security posture
  2. Vendor lock-in / interoperability
     • Too much reliance on vendor APIs and possible need for minimal standardization of technologies through standards bodies such as IETF or others
  3. Evolving threat models and changes business processes caused by ZTA
     • Security compromises and user experience
Questions & Feedback