Java Security Status Update

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Java's First 500 Days

- 45 million "official seats"
- 200,000 programmers in first 100 days
- 118 universities teaching Java (10/96)
- 150+ books (more than those on C++)
- 83,202 web pages running Java (10/96)

What Is Java Security?

- Performing access control on crucial resources (e.g., file system, network connection, windowing system)

- Facilitating the construction of secure applications (e.g., tools, protocols)

Four Cornerstones

- Language safety (e.g., type safety, bytecode verifier, classloader)
- System security (e.g., protection domain, access control, authorization, delegation, policy)

Four Cornerstones (cont.)

- Crypto APIs (e.g., SHA-1, DSA, DES, 3DES, MD4, MD5)
- Network and web security protocols (e.g., login/key exchange, SSL, SKIP)