Secure Server Architecture

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Goals
• Increase immunity to network attacks
• Improve performance
• KISS – Keep It Simple and Secure!

Complexity
FreeBSD 4.5 system call dependency graph

Secure/Hardened OS
• TrustedBSD
• Security Enhanced Linux
• Bastille Linux
• Immunix

Approach
• Secure/Hardened OS
  - Add new security mechanisms
  - Modify/Enhance existing security mechanisms
• Secure Server Architecture
  - Simplify to achieve better security

Architecture