Web Services Security Tutorial - Wrap-up

A Web Services Security Overview and Implementation Tutorial

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Modules Covered

- Web Services Security Requirements
- Web Services Security Framework
- Web Services Usage Scenarios
- Security Credentials and Identity
- Emerging XML Security Standards
- Security Implementation using Interceptors
- Lessons from Implementing Web Services Security

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Lessons from the First Wave

- Existing Web tier security infrastructure usually sufficient for many internal projects

- Necessary to accommodate third-party security products already in use in the organization

- End-to-end framework is necessary to avoid security gaps

- Operational security procedure best practices for Web services have yet to be developed

- XML security specifications have not yet been widely adopted

- Rival XML security specifications are still emerging

- Lack of experience and training on XML security standards is holding back adoption

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Recommendations for the future

- Track usage scenarios in an organization to determine security levels

- Start with "proof-of-concept" projects to gain experience

- Integration with Microsoft .NET security schemes will be vital

- WS-I Basic Security Profile will reduce interoperability problems with current XML Security standards.

- Don't throw away the organization's existing security infrastructure

- Plan to implement end-to-end security

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