

Leviathan has an extensive history of performing application security assessment and design services. Our team members have been performing such testing for over a decade, with recent projects including:

- Design review, pen-test, and code review of a pre-release commercial operating system
- Web application security assessments of well-recognized Internet properties
- Development of a security testing framework for a virtual machine hypervisor architecture
- Security assessments of commercial and open-source Internet browser technology
- Code review, penetration testing, and fuzz testing of large-scale online services
- Penetration testing of commercial operating system communications protocols
- Penetration testing of multiple DRM and encryption technologies
- Development of one of the leading internal enterprise application security code review tools for a Fortune 500 organization
- Over 300 application security assessments of enterprise line-of-business applications, where Leviathan consultants have logged over 7,100 issues

### Approach & Methodology

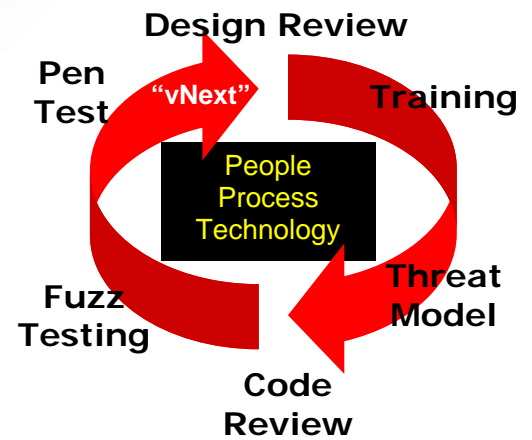
Leviathan's application security assessment approach is built upon these years of experience, and is designed around the development lifecycle:

- **Design review:** Development staff interviews and documentation review to clarify business & security objectives, architecture, design assumptions
- **Threat modeling:** Structured interaction with development staff to document a prioritized list of security threats according to industry standard practices
- **Penetration Testing:** "Adversarial use" to scrub near-final application for known security vulnerabilities using common tools and techniques
- **Fuzz Testing:** Automated input testing of instrumented components/protocols to identify potentially exploitable boundary conditions
- **Code Review:** Analysis of relevant application source/binary code for known security vulnerabilities
- **Infrastructure Review:** For software services, security assessment of supporting IT infrastructure and analysis of key integration points

### Process & Training

We also offer process consulting and training to help our customers to incorporate the above practices on a sustainable basis:

- **Design/process consulting:** Advice on how to integrate the above tools/techniques into current dev process
- **Training:** Expert-lead workshops with interactive labs to familiarize dev staff with how to proactively identify and mitigate common security issues



Leviathan's deep familiarity and experience with software security has few peers, as demonstrated by our proven track record with organizations of all sizes. Contact us today to help manage the security risk in your application portfolio using these industry-established practices.