

Professional Services Overview

INFORMATION SECURITY ASSESSMENT AND ADVISORY

NETWORK APPLICATION MOBILE CLOUD IOT

Praetorian Company Overview

HSTOR

- Founded in 2010
- Headquartered in Austin, TX
- Self-funded
- Profitable since inception

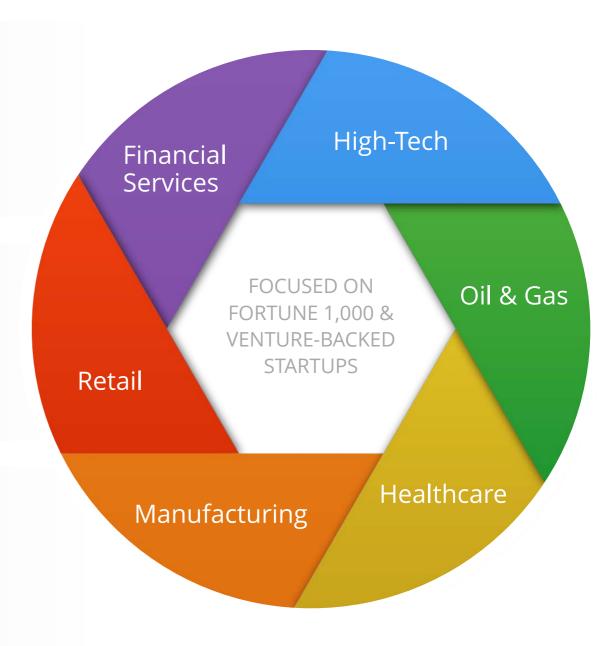
ATTRIBUTES

- Superior technical prowess
- Comprehensive reporting

- Trusted business acumen
- Advanced, time-tested methodologies

PROPOSITION

Praetorian provides a suite of security assessment and advisory services that help clients protect their most important assets from evolving cyber threats.





An Established and Growing Services Firm

When you're constantly advancing your industry and helping to secure today's leading organizations, people notice.













Our Consultants Are "The Security Experts"

- Top 5% of the industry
- Certified expertise includes: CISSP, CISA, CSSLP, CEH, GCIH, GSEC, GNSA, GCIH, GCFW, GWAPT, GAWN, GCFE
- Respected authors, researchers, federal security policy contributors, patent holders and open-source developers
- Speakers at major security conferences and professors at major universities
- Educational backgrounds in computer science, engineering, and information systems











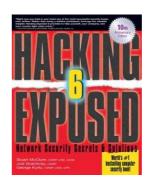


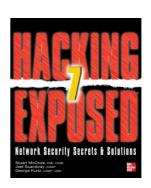


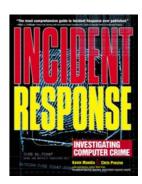














PRAETORIAN CONFIDENTIAL

Recognized by Industry and the Media

- Expertise and comment regularly leveraged by media
- Recently named one of the
 20 Most Promising Security
 Companies by CIO Review
 Magazine
- Security research cited by major institutions, including NASDAQ and Dept. of Homeland Security























We Are Fanatical About Service Execution

Project Management

Timely communication and regular status updates

Knowledge Transfer

Close working relationship and always available by email/phone

Comprehensive Reporting

- Digestible by executive and technical leadership
- Actionable strategic and tactical recommendations





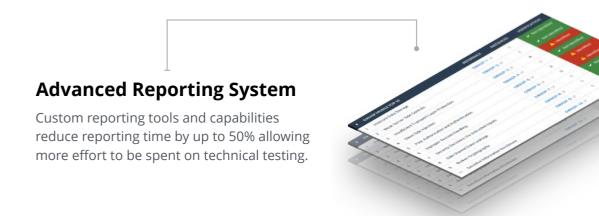
Using Efficiencies Built from the Ground Up

- Builders make the best breakers
- Our engineering culture drives powerful efficiencies that enable us to deliver more for less
- Our time tested methodologies are paired with a unique suite of custom tools, which delivers more value across every engagement
- We are obsessed with efficiencies and continuous improvements



Proprietary Tools & Software

Our security engineers are equipped with a suite of custom tools and software. If a new solution is needed to solve a unique problem, we build it.



iPentest™ Device

Custom plug-and-play technology allows our team to perform onsite work remotely. This minimizes logistics and travel costs for clients, while extending testing time.



And that just scratches the surface of our unique capabilities...



Trusted by Today's Leading Organizations











































Just Ask Our Extraordinary Clients

QUALITY OF REPORTS

"The content is top notch, the presentation is complete and clear."

AGILE & EFFICIENT

"[Your consultants] are available at all times of the day, and are all over the assessments."

TECHNICAL TALENT

HIGHLY ENGAGED



ACCOMMODATING

PRODUCT AGNOSTIC

EASE OF WORKING TOGETHER

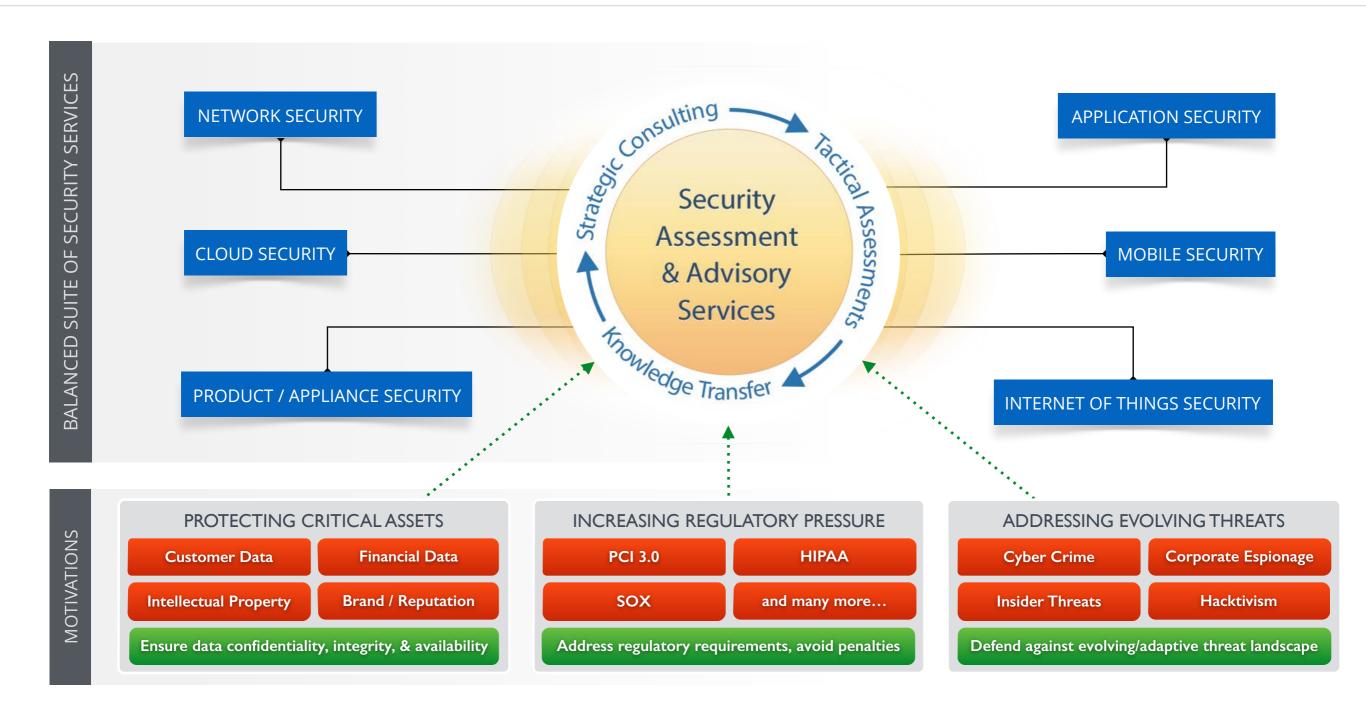
"You and your team have always been very supportive [of] the broader set of enterprise services that we have here at Qualcomm so that the reports can be actionable by the people who are getting them."

CONSISTENCY

"You have the same people over time. When we come back after time we get people who were on our past contracts and we've already developed a level of comfort with."

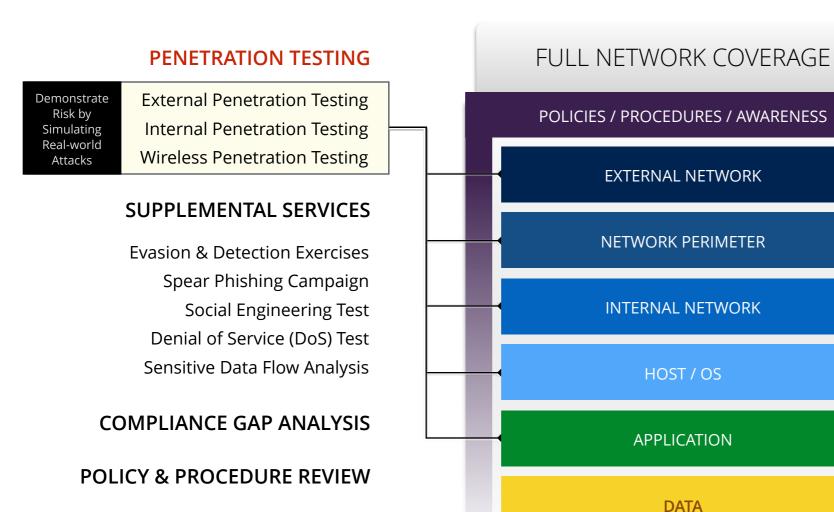


Services That Address Your Specific Needs





Network Security Services Overview



IT SECURITY AUDITING

DESIGN SECURITY REVIEWS

Network Architecture Review
Active Directory Review
Mobile Device Review
VoIP Review
Wireless Review

HOST & DEVICE REVIEWS

Firewall Review
VPN Review
Router/Switch Review
Critical Server Review
Virtualization Review

Defensive components and security controls should be tested at all levels to ensure they are effectively working together to protect critical assets.



PCI DSS 3.0 Security Assessment

PCI Data Security Standard – High Level Overview					
Rillid and Maintain a Secure	1 2	Install and maintain a firewall configuration to protect cardholder data Do not use vendor-supplied defaults for system passwords and other security parameters			
Protect Caronolder Data	3 4	Protect stored cardholder data Encrypt transmission of cardholder data across open, public networks			
Maintain a Vulnerability Management Program	5 6	Protect all systems against malware and regularly update anti-virus software or programs Develop and maintain secure systems and applications			
Implement Strong Access Control Measures	7 8 9	Restrict access to cardholder data by business need to know Identify and authenticate access to system components Restrict physical access to cardholder data			
. .	10 11	Track and monitor all access to network resources and cardholder data Regularly test security systems and processes			
Maintain an Information Security Policy	12	Maintain a policy that addresses information security for all personnel			

PCI 3.0 DSS SERVICES

PENETRATION TESTING

External Penetration testing Internal Penetration Testing Wireless Penetration Testing Web App Penetration Testing

SECURITY REVIEWS

Virtualization Review

Network Architecture Review Sensitive Data Flow Analysis Firewall Review **VPN** Review Router/Switch Review Critical Server Review

Obtain an accurate understanding of your security and risk posture, while ensuring compliance with industry regulators and information security best practices.



Establishing or Improving a Cybersecurity Program

1		Asset	Inventory	,
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- 2. Software Inventory
- Secure Hardware and Software Configurations
- Continuous Vulnerability Assessment & Remediation
- 5. •• Malware Defenses
- 6. Application Software Security
- 7. Wireless Access Control
- 8.

 Data Recovery Capability
- 9. Procedures and Tools
- Secure Configurations for Network Devices (FW, Routers, Switches)
- 11. Limitation and Control of Network Ports, Protocols, and Services

- 12. Ontrolled use of admin privileges
- 13. Boundary Defense
- 14. Maintenance, Monitoring, and Analysis of Audit Logs
- 15. Ontrolled Access based on Need to Know
- 17. Data Protection
- 18. • Incident Response and Management
- 19. Secure Network Engineering (Network Architecture)
- 20. • Penetration Tests and Red Team Exercises

- National Institute of Standards an Technology (NIST) has identified the five major functions of a Cybersecurity Program
- SANS/CSC has mapped the top 20 security controls to these functions implemented

IDENTIFY

- Asset management
- Business environment
- Governance
- Risk assessment
- Risk management strategy

PROTECT

- Access control
- Awareness and training
- Data security
- Info protection and procedures
- Maintenance
- Protective technology

DETECT

- Anomalies and events
- Security continuous monitoring
- Detection process

RESPOND

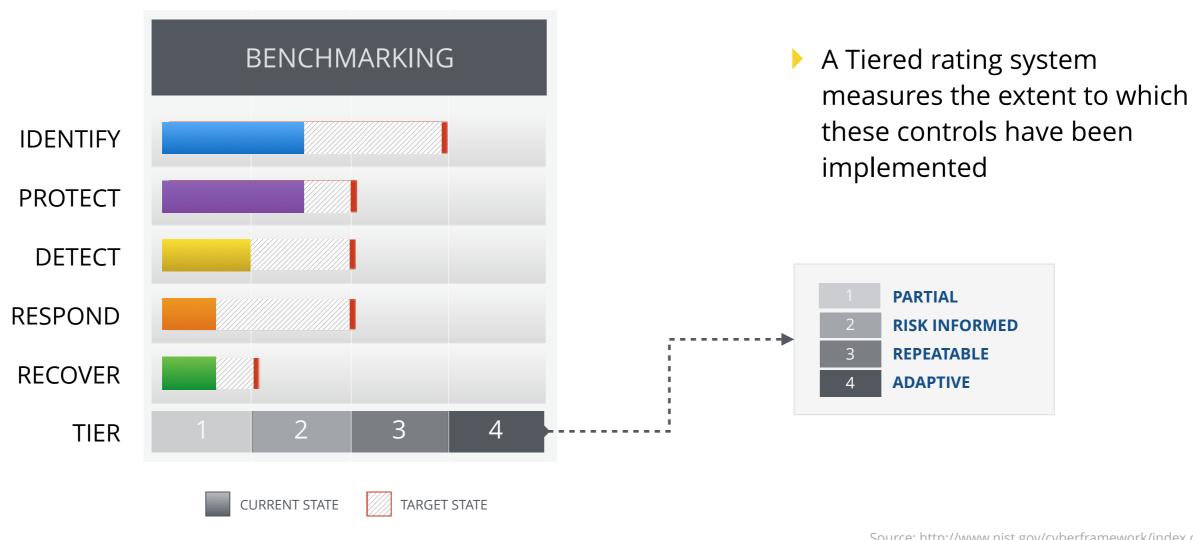
- Response planning
- Communications
- Analysis
- Mitigation
- Improvements

RECOVER

- Recover planning
- Improvements
- Communications



NIST Cybersecurity Framework Benchmark



Source: http://www.nist.gov/cyberframework/index.cfm

Leverage the NIST Cybersecurity Framework as an overlay for your organization's existing practices and Praetorian's recent assessment activities.



Application Security Assessment Services

WEB

MOBILE

IOT

DESKTOP

APPLIANCE

TACTICAL ACTIVITIES

Penetration Testing
Security Code Review
Developer Interviews
Threat Modeling
Requirements Mapping

STRATEGIC INITIATIVES

Software Development Lifecycle Review Software Assurance Maturity Modeling Secure SDLC Program Development Developer Security Training



Identify and remediate software vulnerabilities early and often to generate software maintenance savings that reduce overall development costs.



Application Security Assessment Services

WEB MOBILE IOT

DESKTOP APPLIANCE

TACTICAL ACTIVITIES

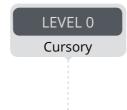
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Requirements Mapping

STRATEGIC INITIATIVES

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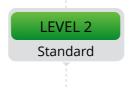
Praetorian follows the OWASP ASVS standard, which normalizes the range in coverage and level of rigor applied to each application.



Level 0 (or Cursory) is an optional certification, indicating that the application has passed some type of verification.



Level 1 (or Opportunistic) certified applications adequately defend against security vulnerabilities that are easy to discover.



Level 2 (or Standard) verified applications adequately defend against prevalent security vulnerabilities whose existence poses moderate-to-serious risk.



Level 3 (or Advanced) certified applications adequately defend against advanced security vulnerabilities, and demonstrate principles of good security design.

Identify and remediate software vulnerabilities early and often to generate software maintenance savings that reduce overall development costs.



Application Security Assessment Services

WEB MOBILE IOT **DESKTOP APPLIANCE**

TACTICAL ACTIVITIES

Penetration Testing Security Code Review **Developer Interviews Threat Modeling** Requirements Mapping

STRATEGIC INITIATIVES

Software Development Lifecycle Review Software Assurance Maturity Modeling Secure SDLC Program Development **Developer Security Training**



Praetorian follows the OWASP ASVS standard, which normalizes the range in coverage and level of rigor applied to each application.

OWASP ASVS defines the following security requirements areas:

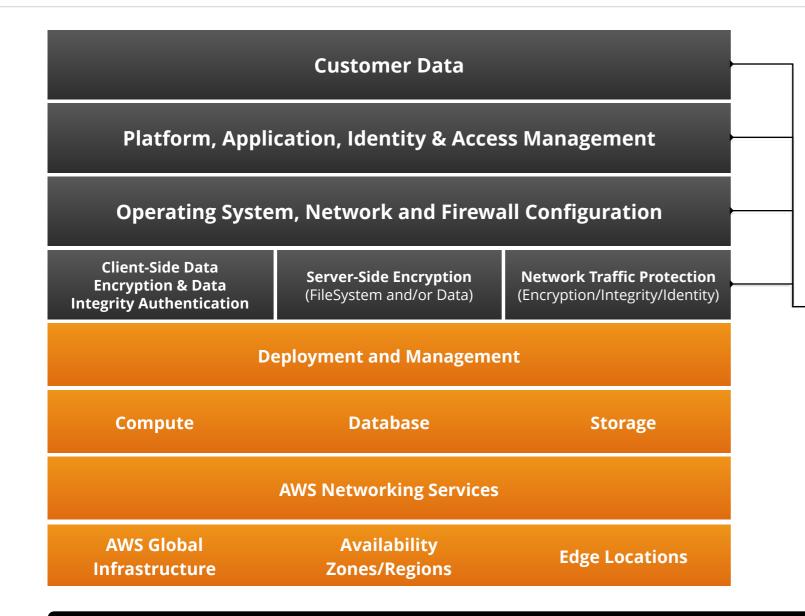
- Authentication
- Session Management
- Access Control
- Malicious Input Handling
- Cryptography at Rest
- **Error Handling and Logging**
- **Data Protection**

- Communications Security
- HTTP Security
- Malicious Controls
- **Business Logic**
- File and Resource
- Mobile

Identify and remediate software vulnerabilities early and often to generate software maintenance savings that reduce overall development costs.



Cloud Security Assessment Services



CLOUD SECURITY CONTROL REVIEWS

Network Firewall Review
Web Application Firewall
Load Balancers
Remote VPN
Open DNS

Intrusion Detection System
Intrusion Prevention System
Threat Prevention

Cryptographic Accelerators
Hardware Security Modules

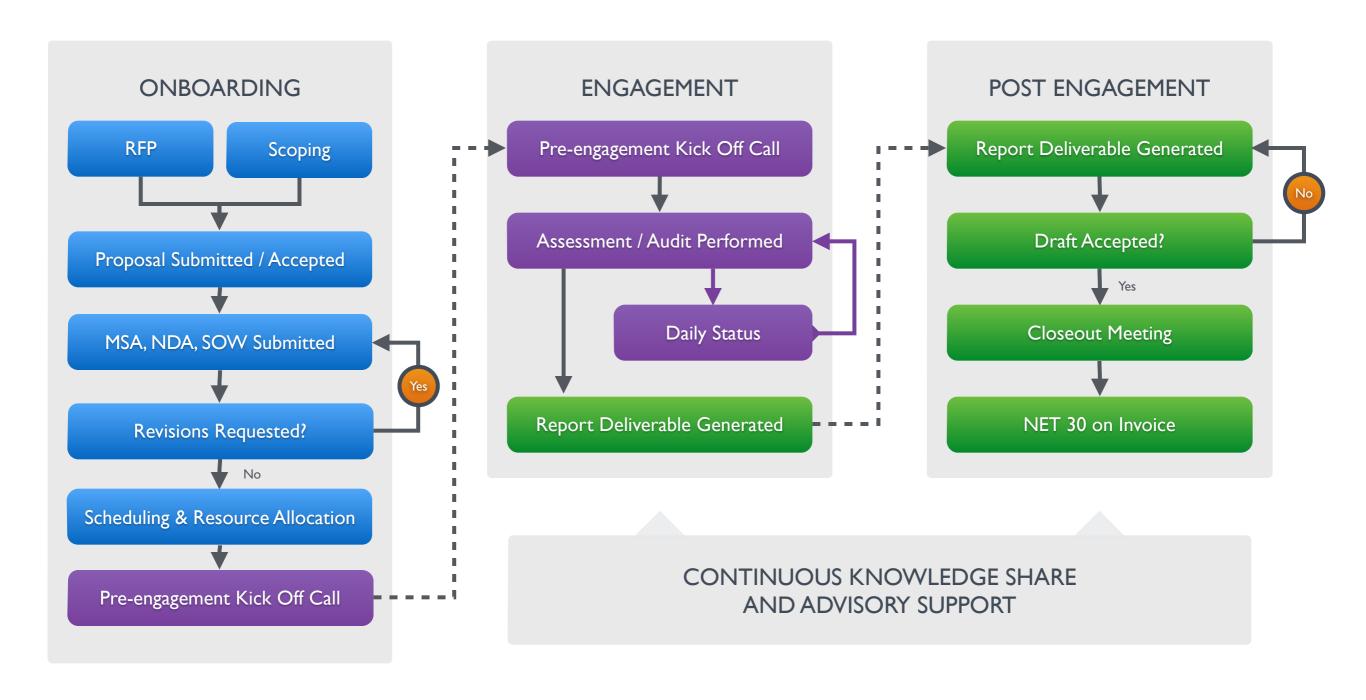
SIEM

MANY CLOUD PROVIDERS OWN THE RESPONSIBILITY OF DELIVERING A GLOBAL SECURE INFRASTRUCTURE AND SERVICES

Under a cloud provider's **shared responsibility model** you are responsible for protecting the confidentiality, integrity, and availability of your data.



Praetorian Engagement Workflow







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