

# Security Design Architecture Overview

## The Challenge

Many security leaders and teams are struggling with answering a basic question, "Have we properly architected our security environment to succeed in protecting our organization, achieve compliance efficiently and provide the flexibility required to adjust to a changing risk profile?"

In many cases, teams are dealing with an unknown security posture and topology with poorly configured or under-utilized security technologies. This can lead to gaps across their architecture, technical security controls and configurations. In response, organizations are misappropriating limited budgets into more tools vs. architecting their current security investments in a systematic method.

The current approach causes a constant cycle of reactionary spending, resulting in organizations challenged with the ability to:

- Evaluate current technical security controls against risk targets
- Develop appropriate security control remediation plans and/or strategic architectural roadmaps
- Limit risk associated with network topologies
- Align tool selection and configuration to prevailing best practices

- Validate security devices and network design against business and security initiatives
- Determine the logical system placement and physical design of security controls
- Assessment of security devices prior to operational deployment

## The Solution

SecureWorks Security Design & Architecture is designed to help clients align business risk to security objectives, controls, and architecture. Our comprehensive portfolio covers a wide range of assessments, designs and health checks to ensure your organization is able to identify potential issues in the design, architecture and configuration of your security infrastructure and provide comprehensive remediation plans.

SecureWorks consultants with deep bench knowledge of security controls and architecture will utilize proprietary methodologies based on thousands of engagements and best-in-class security standards to work hand-in hand with your security, IT and business teams. This results in the development of a blueprint that identifies the assets and security controls in place and the remediation plan to help you prioritize your resources and design a security architecture to safeguard your critical assets.

## Consulting Services That:

- Identify security and performance improvements for devices and applications
- Discover design flaws that can be exploited
- Create or update architecture to enhance your security posture



## SecureWorks Security Design & Architecture Continuum

Focused on Individual Security Control/Tools

### Security Device & Application Assessments

- Server, Device & Application Hardening
- Health Check/Assessment
- Advanced Health Check/Assessment

Focused on Enhanced Security Control/Tool Connectivity

### Security Design Assessments

- Architecture Assessments
- Cloud Security Architecture Assessment
- Compliance Architecture Assessment (PCI, HIPAA, SCADA, NIST CSF, DSI, NIST 800, o-ESA, SABSA, TOGAF)
- Defense in Depth Assessment
- Infrastructure Assessment
- Web Application Firewall Configuration and Architecture Assessment
- Zero Trust Assessment

Focused on New Optimal Security Control Connectivity Design

### Security Design Creation

- Datacenter Re-Build or Migration Design
- Growth Architecture Design
- Merger & Acquisition Integration Design
- Network Segmentation
- Secure Remote Access
- Vulnerability Scanning Architecture Design

\*Not an all-inclusive list

SecureWorks Security Design & Architecture enables clients to:

- Pinpoint & correct device configuration and application issues compromising security & performance
- Classify & prioritize security architecture risks and the subsequent controls and remediation opportunities
- Identify security architecture design flaws typically discovered after a security breach
- Design & architect scalable security services that protect key information assets
- Improve security design with an architecture & strategic roadmap for the future

### Security Device and Application Assessment

Assurance that security devices and applications are running optimally and to their fullest potential can be the difference in detecting a potential breach. With security devices and applications deployed in critical locations, pinpointing areas of opportunity to enhance configurations and remediate discovered issues is an opportunity to mitigate risk and maximize investments. SecureWorks Security Device and Application Assessments are a collection of services

designed to help you identify and remediate those areas of opportunity for improved device performance to better align to security objectives and maximize technology investment.

<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Review and remediation of key security components and applications</li> <li>• Identify &amp; correct device configuration and application issues compromising security &amp; performance</li> <li>• Develops best practice recommendations for solving discovered issues</li> <li>• Up to date with the latest security policies and patches</li> <li>• Devices and applications configured to optimize and enable SIEM/MSS investments</li> </ul>
<b>Solutions</b>	<ul style="list-style-type: none"> <li>• Server, Device &amp; Application Hardening</li> <li>• Health Check/Assessment</li> <li>• Advanced Health Check/Assessment</li> </ul>

## Security Design Assessments

Once you are confident devices are optimally configured and aligned to security objectives, you have to determine if there are gaps in your security infrastructure policies, architecture, and controls that put your organization's critical assets at risk. SecureWorks Security Design Assessments are a collection of services that comprehensively look at security controls and architecture to discover design flaws that threat actors are likely to exploit. These assessments provide you with a prioritization of the risks associated with those flaws and the guidance and recommendations for remediation.

<b>Benefits</b>	<ul style="list-style-type: none"><li>• Comprehensive analysis of security controls and architecture</li><li>• Identifies &amp; prioritizes security architecture risks and the subsequent controls and remediation opportunities</li><li>• Gain a complete view of security posture, supporting controls &amp; infrastructure</li><li>• Identifies security architecture design flaws typically discovered after a security breach</li><li>• Compiles comprehensive security architecture assessment, design guidance, recommendations and mitigation roadmap</li></ul>
<b>Solutions</b>	<ul style="list-style-type: none"><li>• Architecture Assessments</li><li>• Cloud Security Architecture Assessment</li><li>• Compliance Architecture Assessment (PCI, HIPAA, SCADA, NIST CSF, DSI, NIST 800, o-ESA, SABSA, TOGAF)</li><li>• Defense in Depth Assessment</li><li>• Infrastructure Assessment</li><li>• Web Application Firewall Configuration and Architecture Assessment</li><li>• Zero Trust Assessment</li></ul>

## Security Design Creation

Assessments can provide you with an analysis of current architecture and controls with recommendations on how to remediate flaws. However, what do you do if you are designing a new architecture or need to implement a complete redesign from an assessment? SecureWorks Design Creation services are a collection of hands on engagements that help you create or update design, placement and configuration of security controls to align to business objectives and decrease security risk.

<b>Benefits</b>	<ul style="list-style-type: none"><li>• Scalable security architecture that is in lock-step with business objectives and risk</li><li>• Design &amp; architecture of scalable security services that protect key information assets</li><li>• Improved security design with an architecture &amp; strategic roadmap for the future</li><li>• Improved integrity of business processes and information security</li><li>• Updated design, placement and configuration of security controls</li></ul>
<b>Solutions</b>	<ul style="list-style-type: none"><li>• Datacenter Re-Build or Migration Design</li><li>• Growth Architecture Design</li><li>• Merger &amp; Acquisition Integration Design</li><li>• Network Segmentation</li><li>• Secure Remote Access</li><li>• Vulnerability Scanning Architecture Design</li></ul>

## Why SecureWorks

### Our Security Consultants

SecureWorks hires only the best and brightest. From our in-depth technical hiring process to our continued investment in our consultants through generous training programs, we seek to find and cultivate security design excellence. Our consultants can be found speaking at industry conferences and releasing cutting-edge security research that becomes industry standard best practices.

### SecureWorks Global Threat Intelligence

Threat intelligence is the fuel that powers the engine of the security solutions we provide. With more than 65 of

the world's most highly regarded security researchers, SecureWorks' distinguished CTU research team is what sets us apart. Our researchers analyze threat data across our global client base and actively monitor the cyber threat landscape to provide a globalized view of emerging threats, which provides a basis for the design and architecture decisions we provide.

### Proven Methodology

SecureWorks has performed thousands of consulting engagements for a wide array of companies from small business to Fortune 500. Our methodology is based on a combination of our experts' advice and years of experience, SecureWorks' industry leading experience in Global Information Security Services, and grounded in the ISO 27000 standards, the current SANS TOP 20 Critical Security Controls, and a collection of NIST 800 standards. Our methodology is updated on a regular basis to match current industry and attack trends.



For more information, call **(877) 838-7947** to speak to a SecureWorks security specialist.

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