



QUANTUM

Enterprise Security Posture Service

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How Vectra Can Help

Vectra's Quantum cyber security methodology is based on global industry standards, enabling Quantum to provide a strategic overview of an organisation's entire security posture at a given point in time.

The Enterprise Security Posture service encompasses both technical and non-technical security controls. It then allows the organisation to measure their security posture improvement continuously against the initial security baseline position.

Challenges and Questions Faced by Organisations

The systemic cyber risk to business continues to increase, and leaders need a fresh view of measuring and mitigating these risks. When you operate in a virtual world, cyber risk is pervasive, and we need ways of managing global risk exposure and the threat of attack.

Questions being asked by leaders and executives:

- What is our exposure to cyber risk?
- Have I spent money in the right areas?
- Do I have any gaps in my security controls?
- Have we duplicated controls unnecessarily?
- What new or updated controls should we prioritise?
- How are we protected against different threat scenarios?
- Are controls operating effectively?
- Are my non-technical controls effective?
- How do I report our current and future security posture to the board?
- Do I have the right controls to recover my environment in the event of an attack?

Environment Overview Dashboard



Benefits of Quantum

For CISOs & Security Teams

- Gaining visibility into your cybersecurity posture
- Quantifying the risk of threat actors and attack methods
- Identifying actions to reduce risk and improve posture
- Creating a data-driven narrative to prioritise investments

For Boards & Executives

- Drilling deeper to identify investments and infrastructure needs
- Continuously monitoring scores to stay alert to changes over time
- Run threat scenarios against your current controls
- Monitor baseline scores v's future scores

Monthly Executive Report



Executive Overview | Vectra Corporation

	Timeline												Comments
	July 2021		September 2021		Current		October 2021		December 2021		Goal		
	No. Controls	Avg. Efficacy	No. Controls	Avg. Efficacy	No. Controls	Avg. Efficacy	No. Controls	Avg. Efficacy	No. Controls	Avg. Efficacy	No. Controls	Avg. Efficacy	
User	19	64%	23	65%	23	68%	24	75%	21	78%	21	78%	Comments
Client	7	67%	10	47%	10	48%	7	73%	6	74%	6	74%	Comments
Application	3	53%	5	40%	5	40%	4	42%	4	62%	4	62%	Comments
Information	8	74%	9	68%	9	68%	8	74%	10	66%	10	66%	Comments
Infrastructure	21	87%	25	76%	16	77%	21	87%	21	85%	21	85%	Comments
Service Provider	3	59%	4	39%	4	39%	3	59%	3	69%	3	69%	Comments

What is the goal of Quantum?

To provide a strategic overview of an organisation's overall security architecture and be used as a prioritisation tool for future investment.

Based on the NIST Cyber Security Framework and incorporating the MITRE ATT&CK knowledge base of adversary tactics and techniques based on real-world observations. Quantum directly references essential elements of each of these frameworks via the interface.

It also displays alignment to several international and Australian security standards, including:

- ISO 27001
- PCI DSS
- APRA CPS 234
- ACSC Essential Eight

Controls in Play for Compromised Information Scenario

Vectra Test									
Environment									
Current View ↔ No Comparison View ⋮ - Efficacy + Labels All Categories No Standard Compromised Information									
Environment Layer	Identify/Manage		Protect		Detect		Respond/Recover		
User <small>Internal or external users, business processes, roles, accounts and rights, administrators, service accounts, physical access, etc</small>	No. Controls: 4	Avg. Efficacy: 65%	No. Controls: 5	Avg. Efficacy: 72%	No. Controls: 1	Avg. Efficacy: 65%	No. Controls: 2	Avg. Efficacy: 58%	
	Access Control	Active Directory Management	Account Lockout	Account Use Policies	Audit	Audit Logging	Account Lockout	Audit Logging	
	Application Access Approval	Building Management System	Building Security System	Disable Account	Exploit Protection	User Training	Security Incident Response		
	Local User Password Management	Password Policies	Domain User Access Control	Filter Network Traffic					
	Physical Access System	Role-based Access	Local User Access Control	Password Policies					
Client <small>Individual client PC, laptop, mobile device or removable media</small>	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 1	Avg. Efficacy: 50%	
	Update Software	Vulnerability Scanning	Antivirus / Antimalware	Application Control	Antivirus / Antimalware	Audit	Antivirus / Antimalware	Security Incident Response	
			Application Patching	Unlink Software Installation	Network Intrusion Prevention				
			Operating System Patching	Update Software					
Application	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 2	Avg. Efficacy: 52%	

Detailed Control Overview

Vectra Test									
Environment									
Current View ↔ No Comparison View ⋮ - Efficacy - Labels All Categories No Standard No Scenario									
Environment Layer	Identify/Manage		Protect		Detect		Respond/Recover		
User <small>Internal or external users, business processes, roles, accounts and rights, administrators, service accounts, physical access, etc</small>	No. Controls: 8	Avg. Efficacy: 65%	No. Controls: 10	Avg. Efficacy: 69%	No. Controls: 4	Avg. Efficacy: 55%	No. Controls: 3	Avg. Efficacy: 65%	
	Access Control	Active Directory Management	Account Lockout	Account Use Policies	Audit	Audit Logging	Account Lockout	Audit Logging	
	90%	90%	80%	70%	63%	65%	80%	65%	
	Application Access Approval	Building Management System	Building Security System	Disable Account	Exploit Protection	User Training	Security Incident Response		
	10%	40%	45%	72%	36%	56%	50%		
Client <small>Individual client PC, laptop, mobile device or removable media</small>	No. Controls: 2	Avg. Efficacy: 72%	No. Controls: 6	Avg. Efficacy: 56%	No. Controls: 3	Avg. Efficacy: 35%	No. Controls: 2	Avg. Efficacy: 70%	
	Update Software	Vulnerability Scanning	Antivirus / Antimalware	Application Control	Antivirus / Antimalware	Audit	Antivirus / Antimalware	Security Incident Response	
			Application Patching	Unlink Software Installation	Network Intrusion Prevention				
			Operating System Patching	Update Software					
Application	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 0	Avg. Efficacy: 0%	No. Controls: 2	Avg. Efficacy: 52%	



vectra-corp.com



1800 816 044

Adelaide
145 South Terrace
Adelaide SA 5000

Melbourne
454 Collins Street
Melbourne VIC 3000

Sydney
Suite 504, 3 Spring Street
Sydney NSW 2000

Perth
Level 3, 1060 Hay Street
Perth WA 6005