Datasheet



Awake Security Platform

"The Awake Security Platform has exceeded our expectations and empowered us to secure our connected workplace more effectively and autonomously than ever."

ARISTA

– Rich Noguera, Fmr. CISO, Gap Inc.

As attackers have evolved beyond malware, supply chain threats, insider attacks and living off the land tactics challenge the ability for organizations to defend themselves effectively. At the same time a new network has emerged with unmanaged Internet of things, cloud infrastructure, contractor and third-party devices and shadow IT. Security teams recognize the need for threat hunting to deal with this evolving landscape, but struggle with the time and skills necessary to distinguish between good and bad when everything looks like normal activity.

The Awake Security Platform is built on a foundation of deep network analysis from **Awake Sensors** that span the "new network"—including the data center, campus, IoT as well as cloud workload networks and SaaS applications. Unlike other network detection and response solutions, Awake parses over three thousand protocols and processes layer 2 through layer 7 data. The platform analyzes encrypted traffic to identify important context such as the nature of traffic (file transfer, interactive shell etc.), the applications communicating and the presence of remote access, all without forcing data decryption. **Awake's EntityIQ**[™] technology uses this information to autonomously profile entities such as devices, users and applications, while also preserving these communications for historical forensics.

Only Awake



Delivers EntitylQ[™] to autonomously discover & profile every device, user & application whether managed or unmanaged by the organization.



Enables Adversarial Modeling[™] that exposes attacks including insider threats, credential misuse, lateral movement & data exfiltration.



Includes Ava[™] to automate triage & investigations and provides a decision support system to the analyst.



Delivers visibility into encrypted traffic using AI to classify the application communicating, nature of traffic etc.



Reduces false positives & negatives by avoiding basic unsupervised learning on IP address data.



Requires no agents, manual configuration or lengthy training periods.





Extracted activity data feeds into the **Awake Nucleus** which uses a combination of detection models to uncover malicious intent. An ensemble of machine learning approaches avoid reliance on simplistic and noisy anomaly detection or unsupervised learning. Awake's **Adversarial Modeling**[™] language enables the uncovering of even the most complex attacker tactics, techniques and procedures (TTPs), with extensible Al-driven models that first zero in on suspicious activity and then gather corroborating evidence to support conviction. The modeling language delivers rich data analysis capabilities as well as a vocabulary to express attacker TTPs, so that even a relatively junior analyst can now hunt. The Nucleus provides a single sign-on and role-based user experience as well as a full API for extensibility, notifications and integrations with other IT and security solutions for automated response and remediation.

Ava, Awake's autonomous security analyst, is the world's first Al-based security expert system that performs threat hunting and incident triage. Ava automatically connects the dots across the dimensions of time, entities, and protocols, enabling the solution to present end-to-end **Situations** to the end user rather than a plethora of meaningless alerts. Analysts thus see the entire scope of an attack along with investigation and remediation options on a single screen while avoiding the effort of piecing it together themselves. Importantly, federated machine learning allows Awake customers to gain these capabilities while keeping their private data firmly within their infrastructure.

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Use Cases

Detection

The platform uses AI to detect & prioritize mal-intent & behavioral threats from both insiders & outside attackers, while mapping these to the MITRE ATT&CK framework.

Response

Ava forensically correlates incidents across entities, time, protocols and attack stages, surfacing Situations with all the decision support data necessary to respond rapidly to any threat.

Situational Awareness

Awake learns & tracks entities across IT, OT or IoT environments whether they are on-premise, cloud or SaaS and managed or unmanaged including contractors and other third-parties.

Threat Hunting

The platform's rich data set and query capabilities enable powerful threat hunting workflows. Ava can take a single trigger from a human analyst and in a matter of minutes autonomously expose the entire kill-chain.



Integrations

The Awake Security Platform integrates with and amplifies existing solutions through integrations into industry-leading SIEM, business intelligence, ticketing and analytics, endpoint detection and security orchestration tools. In addition, the platform supports a full API for custom workflows and integrations. For instance, the SIEM integration allows an analyst to pivot from an alert containing a IP or email address to a device profile with associated user(s) and roles, operating system and application details, a forensic threat timeline as well as a listing of similar device(s) for campaign analysis. Similarly, endpoint integrations allow for one click quarantining of compromised devices or retrieval of endpoint forensic data.

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Deployment Modes

The Awake Security Platform can be deployed in two modes depending on customer requirements and network architecture:

All-in-one

The Awake Sensor and Awake Nucleus in this case are deployed on a single appliance. This deployment is ideal for customers who deploy a single instance of Awake or do not require a centralized view of their deployment.

Split

When deployed in this mode, the Sensor and Nucleus are deployed separately. Sensors can be deployed in a variety of form factors including physical or virtual appliances. The Nucleus can also be deployed as a hardware cluster to support higher performance requirements as well as in Amazon Web Services to support distributed deployment of sensors.



Awake Security Platform Hardware Specifications

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Model #	ASP-S-NS	ASP-L-NS	ASP-L-AN	ASP-L-Ai1		
PERFORMANCE & CAPACITIES						
Function	Sensor Only	Sensor Only	Nucleus Only	All in One		
Network Performance	Up to 1 Gbps	Up to 5 Gbps	Up to 10 Gbps ¹	Up to 5 Gbps		
Meta Data Storage	N/A	N/A	90 days	90 days		
HARDWARE SPECIFICATIONS						
Rack Unit	1U	2U	2U	2U		
CPU Cores	32	64	96	96		
RAM	512 GB	512 GB	1 TB	1 TB		
Disk Storage	1 TB	12x 6 TB	10x 8 TB	10x 8 TB		
SSD	1x 1 TB	2x 480 GB	2x 480 GB	2x 480 GB		
Non-volatile Memory	-	-	2x 3.2 TB PCIe NVME	2x 3.2 TB PCIe NVME		
	2x 1/10 Gbps Onboard Ethernet	2x 1 Gbps Onboard Ether-net	4x 1 Gbps Onboard Ether-net	4x 1 Gbps Onboard Ether-net		
Network	4x 10 Gbps Intel SFP+	4x 10 Gbps Intel SFP+ Ports	2x 10 Gbps Intel Ethernet	4x 10 Gbps Intel SFP+ Ports		
	1x Out of Band Management Interface					
Power Supply	2x 750W - Redundant and Hot Swappable	2X 1400W- Redundant and Hot Swappable	2X 1400W- Redundant and Hot Swappable	2X 1400W- Redundant and Hot Swappable		

Model # (Virtual Sensors)	ASP-S-VS	ASP-L-VS			
PERFORMANCE & CAPACITIES					
Function	Sensor Only	Sensor Only			
Network Performance	Up to 500 Mbps	Up to 1 Gbps			
SYSTEM REQUIREMENTS					
Supported Hypervisors	VMware ESXi 5.5+	VMware ESXi 5.5+			
Supported vCPUs	8	12			
Minimum Memory	128 GB	128 GB			
Minimum Disk Drive	20 GB	20 GB			
Network Connectivity	2x 1 Gbps Ethernet (including 1 Management Inter-face)	2x 1 Gbps Ethernet (including 1 Management Inter-face)			

Model #	ASP-S-AWS-VS	ASP-S-GCP-VS				
PERFORMANCE & CAPACITIES						
Cloud	Amazon Web Services	Google Cloud Platform				
Function	Sensor Only	Sensor Only				
Network Performance	Up to 1 Gbps	Up to 1 Gbps				
SYSTEM REQUIREMENTS						
Minimum Instance Size Supported	r5.4xlarge - 16 vCPU	n1-highmem-16 - 16 vCPU				
Minimum Disk Drive	160 GB	160 GB				
Minimum Memory	128 GB	104 GB				

¹ Cluster mode supported for higher throughputs



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