

PRODUCT BRIEF

IronDefense Network Sensors

Network traffic analysis and response for the detection of advanced threats



Product Overview

The IronDefense network sensors (IronSensors) process network metadata and full packet-capture (PCAP) on enterprise physical, cloud, and virtual traffic, enabling security teams to gain real-time threat detection of known and unknown threats at scale.



ABOUT IRONNET

IronNet is a global cybersecurity leader that is revolutionizing how organizations secure their enterprises by delivering the first-ever Collective Defense solution operating at scale. Our solutions leverage our unique offensive and defensive cyber experience to deliver advanced behavioral analysis and collective intelligence to detect known and unknown threats.

Key Benefits

Superior behavioral detection

IronSensors, used with IronDefense, deliver proven analytics, machine learning (ML), and artificial intelligence (AI) techniques used in real-world defense against sophisticated nation-state-level threat actors.

Unparalleled scalability

IronDefense scales from small organizations to Fortune 100 companies to deliver unmatched detection of threats at enterprises of all sizes. Customers can deploy any number of cloud, virtual, or on-premise hardware IronSensors to fit their needs.

Real-time visibility across your threat landscape

Metadata captured by the IronSensors and analyzed by IronDefense is anonymously shared with an enterprise's IronDome Collective Defense community to provide real-time visibility of threats targeting your supply chain, industry, or region.

Unparalleled expertise

IronNet partners with all customers to deliver a personalized experience to help your security team plan, implement, integrate, and operate IronDefense. Our highly skilled industry experts with deep commercial, military, and intelligence experience will work with you every step of the way to deliver measurable improvements to detect network-based threats across your enterprise.

Specifications

Virtual

Sensor Model	VIS-ESX-1	VIS-ESX-5	VIS-ESX-10
Network Packet Capture Rate	Maximum of 1 Gbps	Maximum of 5 Gbps	Maximum of 8 Gbps
Mode of Operations	TAP/SPAN	TAP/SPAN	TAP/SPAN
Hypervisor	VMware ESXi 6.7	VMware ESXi 6.7	VMware ESXi 6.7
vCPU	4	22	38
Clock Rate per Core	Minimum 2.5 Ghz	Minimum 2.5 Ghz	Minimum 2.5 Ghz
CPU with AVX2	Core i3/i5/i7/i9	Core i3/i5/i7/i9	Core i3/i5/i7/i9
RAM	16 GB	96GB	192GB
Storage without PCAP	10 TB Thin	10 TB Thin	10 TB Thin
Storage with PCAP	10 TB Thick	Not Available	Not Available
Virtual Network Interfaces	2 (MGMT and TAP)	1 for MGMT 1 PCI Express NIC configured passthrough for TAP	1 for MGMT 1 PCI Express NIC configured passthrough for TAP
Network Card Requirements	N/A	16 RSS queues or greater	32 RSS queues or greater
FedRAMP Ready	Optional	Optional	Optional
Proxy	HTTP/SOCKS	HTTP/SOCKS	HTTP/SOCKS

Cloud

Sensor Model	VIS-AWS-1 up to 10G	VIS-AZ-1
Cloud Provider	Amazon Web Services (AWS)	Microsoft Azure
Network Packet Capture Rate	Maximum of 10 Gbps	Maximum of 1 Gbps
Mode of Operations	AWS Traffic Mirroring Service	Customer-provided VXLAN Tap
Required Instance Type	r5ad.xlarge	Standard_E4as_v4
Storage without PCAP	None	None
Storage with PCAP	S3	Not Available

Physical

Sensor Model	IS-0100	IS-0510	IS-1510	IS-1520	IS-3500	IS-4500
Location	Office Home	Data closet Data center	Data closet Data center	Data closet Data center	Data closet Data center	Data closet Data center
Role	Sensor	Sensor + PCAP storage	Sensor + PCAP storage	Sensor + PCAP storage	Sensor	PCAP storage
Single Port Network Packet Capture Rate	Maximum of 1G	Maximum of 1 Gbps	Maximum of 5 Gbps	Maximum of 5 Gbps	Maximum of 10 Gbps	N/A
Dual Port Network Packet Capture Rate	Not available	Not available	Maximum of 2.5 Gbps per port	Maximum of 2.5 Gbps per port	Maximum of 5 Gbps per port	N/A
Rack Space Required	N/A	1U	2U	2U	2U	5U
Mode of Operations	TAP/SPAN	TAP/SPAN	TAP/SPAN	TAP/SPAN	TAP/SPAN	N/A
PCAP Storage Default	N/A	Rolling 72 hours	Rolling 72 hours	Rolling 72 hours	N/A	Rolling 72 hours
PCAP Storage Options	Smart and external	Internal only	Internal only	Internal only	N/A	Internal only
Management Port	1x1 GbE, RJ45	1 x 1 GbE, RJ45	1 x 1 GbE, RJ45	1 x 1 GbE, RJ45	1 x 1GbE, RJ45	1 x 1GbE, RJ45
Ports for TAP/ SPAN	1x1 GbE, RJ45	1 x 1GbE, RJ45	2 x 25 GbE SFP28 Transceivers: 2 x 10 GbE SFP+ or 2 x 10-25 GbE SFP28	2 x 25 GbE SFP28 Transceivers: 2 x 10 GbE SFP+ or 2 x 10-25 GbE SFP28	2 x 25 GbE SFP28 Transceivers: 2 x 10 GbE SFP+ or 2 x 10-25 GbE SFP28	N/A
Storage Configuration	N/A	RAID 5	RAID 5	RAID 5	RAID 6	RAID 6
Storage Capacity	N/A	3 x 8 TB Self- Encrypting, FIPS 140-2 HDD	12 x 12 TB Self- Encrypting FIPS 140-2 HDD	6 x 12 TB Self- Encrypting FIPS 140-2 HDD	2 x 1.2 TB Self- Encrypting, FIPS 140-2 HDD	42 x 12 TB Self- Encrypting, FIPS 140-2 HDD
Power Supply	External 180W AC adapter	Single, Hot plug, 350W	Dual, Hot plug, 1100W	Single, Hot plug, 1100W	Dual, Hot plug, 1100W	Dual, Hot plug, 2200W
Trusted Platform Module (TPM)	v2.0, FIPS 140-2, CC Certified	v2.0, FIPS 140-2, CC Certified	v2.0, FIPS 140-2, CC Certified	v2.0, FIPS 140-2, CC Certified	v2.0, FIPS 140-2, CC Certified	N/A
Proxy	HTTP/SOCKS	HTTP/SOCKS	HTTP/SOCKS	HTTP/SOCKS	HTTP/SOCKS	N/A
Dell Onsite Service	Next business day	Next Business Day	4 hours	Next Business Day	4 hours	4 hours
Trade Adjustment Assistance (TAA)	Available	Available	Available	Available	Available	Available