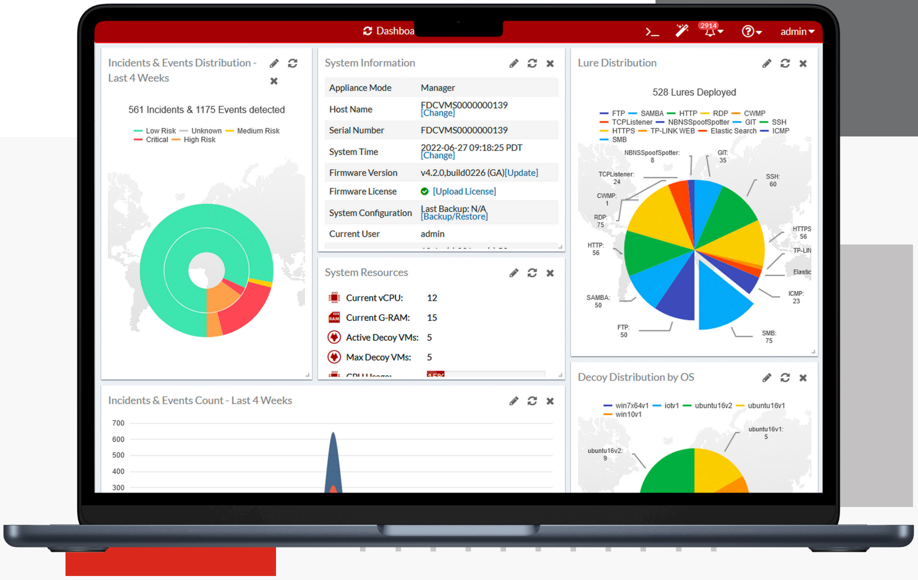
FORTINET

Data Sheet

FortiDeceptor



Dashboa

Incidents & Events Distribution - Last 4 Weeks

561 Incidents & 1175 Events detected

System Information

Appliance Mode	Manager
Host Name	FDCVMS0000000139 [Change]
Serial Number	FDCVMS0000000139
System Time	2022-06-27 09:18:25 PDT [Change]
Firmware Version	v4.2.0,build0226 (GA)[Update]
Firmware License	✓ [Upload License]
System Configuration	Last Backup: N/A [Backup/Restore]
Current User	admin

System Resources

Current vCPU:	12
Current G-RAM:	15
Active Decoy VMs:	5
Max Decoy VMs:	5

Lure Distribution

528 Lures Deployed

Incidents & Events Count - Last 4 Weeks

Decoy Distribution by OS

Feature Benefits

- Provide actionable insights, increase SOC effectiveness
- Extend support to challenging areas (IoT and OT environments)
- Provide early, substantiated warning (no false-positives)
- Scale automatically as the risk level increases
- Detect new or unknown threats and malicious insiders

A Non-Intrusive, Agentless Deception Solution to Detect and Stop Active In-Network Attacks

FortiDeceptor is Fortinet's non-intrusive, agentless deception platform that puts the power back into the hand of defenders, with the ability to deceive attackers into engaging with fake assets and ultimately revealing themselves.

A force multiplier to current security defenses, FortiDeceptor combines the concept of honeypot with threat analytics and threat mitigation capabilities. This is achieved by distributing a layer of deception assets across the network—decoys and tokens, such as fake keys and files on endpoints and servers—and creating a system of traps that look and operate like any other real asset across IT, OT, and IoT networks, intended to deceive, detect, and isolate known and unknown human and automated attacks.

With FortiDeceptor, instead of waiting for the threat actor to make a mistake and then detect their presence, you can now embrace an active defense approach where any step the attacker takes—whether they try to escalate privileges or run malware—becomes an opportunity for you to detect them.

Available in

Appliance

Virtual

Early Threat Detection, Minimal Network Impact

FortiDeceptor works by deploying and running decoys from the FortiDeceptor console using available IP addresses. As decoys leverage unused IP addresses across the different network segments, they do not impact network availability and, to the attacker, they seem like an integral part on your network. These IP addresses do not correspond to any real host or device on the network.

The FortiDeceptor platform consists of several deception components that together provide an authentic and scalable layer of deception assets that are identical to other assets across your network. These decoys are fake assets, such as industrial control systems, medical devices, ATMs, tank gauges, POS devices, IoT devices, network infrastructure, and more, that run real operating systems and services and generate fake but limited traffic to lure attackers to them, diverting them away from sensitive assets. FortiDeceptor provides an extensive inventory of decoys. You can also ‘bring your own decoys’ and upload your own golden images.

To expand the deception layer event further, FortiDeceptor places breadcrumbs (or tokens) on real endpoints and servers. These are fake documents, files, or fake credentials, that attackers look to leverage to move laterally or encrypt. The breadcrumbs, which are indistinguishable from real files and credentials, are designed to deceive the attacker or malware to laterally move to the decoy. FortiDeceptor immediately detects any use of fake credentials, generates alerts, and automatically isolates the endpoint using built-in endpoint isolation capabilities or security orchestration, automation, and response (SOAR) playbooks.

Accelerated Incident Response

The solution generates high-fidelity, zero false-positive alerts, providing security teams with a unique advantage over malicious activity, and unparalleled visibility to detect and stop attacks, credential thefts, lateral movement, and malware activity. It also provides compensating security control when patching or when other security controls aren’t an option. A good example of this is in OT environments where patches aren’t available; even when patches are available, the time and effort required for maintenance is arduous.

Once a malware or human attacker engages with a fake or a decoy asset, an alert is generated and sent to security information and event management (SIEM), SOAR, or any threat intelligence platform you’re using. The decoy then starts capturing and analyzing the activities in real time and generates threat intelligence using eight built-in intelligence engines for detailed and accurate analysis.

FortiDeceptor does not require highly skilled security analysts to deploy or manage the solution. It centralizes and automates the entire process—from deception deployment to evidence analytics to quarantined and unquarantined attacks to the implementation of dynamic protection layers.

Protection Against Evolving Threats

To combat emerging threats, FortiDeceptor enables on-demand creation of deception decoys based on newly discovered vulnerabilities or suspicious activity, providing automated, dynamic protection across IT, OT, and IoT environments.

- **Implement zero-day protection**: Attackers often target vulnerable assets first. With FortiDeceptor's advanced outbreak feature, you can now purposefully deploy decoys with recently disclosed vulnerabilities to attract, automatically detect, and quarantine malicious activities early in the kill chain. When a vulnerability is reported by FortiGuard Labs, the vulnerability emulator is automatically pushed as a feed to the outbreak decoy without requiring a software update.
- **Rapid threat hunting** to identify indicators of compromise (IOCs): FortiDeceptor's integration with SOAR provides on-demand deception asset deployment, triggered by SOAR playbooks to help hunt and quarantine any malicious activity. When suspicious activity is detected, a SOAR playbook can automatically initiate the deployment of decoys and tokens in that specific segment to help detect an attack and capture intel.

In addition, FortiDeceptor offers integrations with leading security tools, as well as with the Fortinet Security Fabric, providing orchestrated threat mitigation and enriched attack intelligence.

Deception for OT and IoT environments

OT environments are diverse, with numerous, multi-vendor devices and systems often designed without built-in security. Hardening mostly legacy systems via monitoring agents or security patching to mitigate risks is not always an option due to continuity, costs, patch availability, and more. FortiDeceptor's decoys simulate various types of IT, OT, ICS, and IoT devices, as well as critical applications such as SAP and ERP that can be deployed across all levels of the Purdue model.

FortiDeceptor works by automatically running active and passive asset discovery, creating asset inventory, and recommending optimized decoy placement across the IT and OT network. It can operate in online or air-gapped modes, and is also available as an industrially-hardened rugged appliance: the FortiDeceptor Rugged 100G, designed specifically for harsh industrial environments.

FortiDeceptor Benefits at a Glance

Accurate, Early Detection and Fast Response

- Reduces dwell time and false-positives
- Detects early reconnaissance and lateral movements
- Built-in, automated attack quarantine capabilities stop attacks before they spread
- Automatically scales as risk level rises
- Helps mitigate ransomware by leading malware to encrypt fake files, triggering automatic blocking of the infected endpoint
- Automatically deploys vulnerable decoys based on FortiGuard Labs latest outbreak alerts
- Integrates with the Fortinet Security Fabric and third-party security controls

Enrich Actionable Insights, Increase SOC Effectiveness

- Generates high-fidelity, actionable alerts based on real-time interactions with adversaries
- Correlates malicious activities using eight different forensic engines to help analysts investigate, gather forensic evidence, monitor, and automatically stop attacks in progress
- Closes visibility gaps with in-progress attack intel and detailed forensics
- Provides attack replays and attack visualizations
- Low-friction deployment and maintenance via automation

Extend Support to Challenging Areas

- Optimized OT, IoT, and IoMT decoys designed to expose and block threats to industrial systems, IoT, and IoMT devices
- Agentless and non-intrusive, with zero impact on mission-critical operations
- Ease of installation (one-day operation) and use; does not require any network topology changes
- Detects threats to assets that cannot provide their own telemetry
- Available across every attack surface, including on-premise, cloud, and IT, OT, IoT, and IoMT environments
- Operates in both online and air-gapped modes

Specifications

	FORTIDECEPTOR RUGGED 100G	FORTIDECEPTOR 1000G
Capacity and Performance		
Size RAM	DDR4-2400 48 GB ECC RDIMM (16GBx1 + 32GBx1)	DDR4-2400 48 GB ECC RDIMM (16 GB*3)
On Board Flash	16GB (M.2 2242)	2 GB USB
Decoy VM Support	Combination of Windows 7, Windows 10, Windows 10 (customizable BYOL), Windows Server 2016, 2019 and 2022 (customizable BYOL), Linux (Ubuntu, CentOS, Redhat), macOS, SSL-VPN Server, Medical (PACS, Infusion pump), POS, ERP, IoT (Router, Switch, Printer and IP-Camera), OT (PLC, HMI, MNG), SAP, SCADA, Outbreak,VOIP (4G/5G), TOMCAT, Webmin, Citrix, ESXi, Elastic-Search, SWIFT.	Combination of Windows 7, Windows 10, Windows 10 (customizable BYOL), Windows Server 2016, 2019, and 2022 (customizable BYOL), Linux (Ubuntu, CentOS, Redhat), macOS, SSL-VPN Server, Medical (PACS, Infusion pump), POS, ERP, IoT (Router, Switch, Printer and IP-Camera), OT (PLC, HMI, MNG), SAP, SCADA, Outbreak,VOIP (4G/5G), TOMCAT, Webmin, Citrix, ESXi, Elastic-Search, SWIFT.
Decoy Services	SSL VPN, SSH, SAMBA, SMB, RDP, HTTP/S, SQL, GIT, DICOM, Telnet, FTP, TFTP, SNMP, MODBUS, S7COMM, BACNET, IPMI, TRICONEX, SRTP, MOXA, KAMSTRUP, GUARDIAN-AST, IEC104, EtherNet/IP, DNP3, JET-DIRECT, RTSP, UPnP, CDP, TCP port listener, SMTP, RADIUS, Mysql, MQTT, SIP, XMPP, 3GPP, CANBus, B.BRAUN and VNC.	SSL VPN, SSH, SAMBA, SMB, RDP, HTTP/S, SQL, GIT, DICOM, Telnet, FTP, TFTP, SNMP, MODBUS, S7COMM, BACNET, IPMI, TRICONEX, SRTP, MOXA, KAMSTRUP, GUARDIAN-AST, IEC104, EtherNet/IP, DNP3, JET-DIRECT, RTSP, UPnP, CDP, TCP port listener, SMTP, RADIUS, Mysql, MQTT, SIP, XMPP, 3GPP, CANBus, B.BRAUN and VNC.
Deception VMs Shipped	Deceptor Bundle Contract included license for Deception Decoys, Deception Lure plus FortiGuard Services Subscriptions (AREA, AV, IPS, and Web Filtering).1 VLAN unit price, minimum order of 2 VLANs	Deceptor Bundle Contract included license for Deception Decoys, Deception Lure plus FortiGuard Services Subscriptions (AREA, AV, IPS, and Web Filtering).1 VLAN unit price, minimum order of 2 VLANs
Hardware Specifications		
Form Factor	Desktop - fanless	1 RU Rackmount
Total Interfaces	6× 1GbE RJ-45 ports	4 x GE (RJ45), 4 x GE (SFP)
Storage Capacity	2.5 inch SATA SSD 1TB (1TBx1)	2 TB (2 × 1 TB HDD)
Usable Storage (After RAID)	2GB USB DOM, SATA-DOM or M.2 (SATA)	1 TB
Removable Hard Drives	No	No
RAID 1	No	RAID 1
Default RAID Level	No	1
Power Supply	Powered by External DC Power Adapter, 100-240V, 1.8A, 50-60Hz	650W Redundant PSU (1+0) Additional/optional PSU (SKU: SP-FSA1000G-PS)
Dimensions		
Height x Width x Length (inches)	3.85 × 10.82 × 8.86	1.73 × 17.24 × 23.62
Height x Width x Length (cm)	98 × 275 × 225	44 × 438 × 600
Weight	16.63 lbs (5.73 kg)	27.56 lbs (12.5 kg)
Environments		
AC Power Supply	N/A	100-240 VAC, 60-50 Hz, 650W Redundant PSU (1+0)
DC Power Supply	Input: 24-48Vdc 3.45-1.77A	
Power Consumption (Max)	+24V (66.11W), +48V (73.92W)	253.2 W
Power Consumption (Average)	+24V (54.1W), +48V (60.5W)	202.56 W
Maximum Current	+24V (3.45A), +48V (1.77A)	
Heat Dissipation	+24V (259.69 BTU/h), +48V (286.34 BTU/h)	863.92 (BTU/h)
Operating Temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)	-13°F to 158°F (-25°C to 70°C)
Humidity	5% to 95% (non-condensing)	10% to 90% (non-condensing)
Operating Altitude	Up to 13 123 ft (4000 m)	Up to 7400 ft (2250 m) *
IP Rating	IP40	—
Compliance		
Safety Certifications	Onboard flash is 8GB Safety Certifications – FCC, ICES, CE, RCM, VCCI class A CB: Low Voltage Directive (LVD) 2014/35/EU IEC 62368-1 2nd Edition IEC 62368-1 3rd Edition UL/CSA: UL 62368-1 3rd Edition	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB

* Operating at maximum temperature derates 1.5°C per 1000 ft (305 m)

FortiDeceptor Rugged 100G

FortiDeceptor 1000G

Specifications

	FORTIDECEPTOR VM
Capacity	
Decoy VM Support	Combination of Windows 7, Windows 10, Windows 10 (customizable BYOL), Windows Server 2016, 2019 and 2022 (customizable BYOL), Linux (Ubuntu, CentOS, Redhat), macOS, SSL-VPN Server, Medical (PACS, Infusion pump), POS, ERP, IoT (Router, Switch, Printer and IP-Camera), OT (PLC, HMI, MNG), SAP, SCADA, Outbreak,VOIP (4G/5G), TOMCAT, Webmin, Citrix, ESXi, Elastic-Search, SWIFT.
Decoy Services	SSL VPN, SSH, SAMBA, SMB, RDP, HTTP/S, SQL, GIT, DICOM, Telnet, FTP, TFTP, SNMP, MODBUS, S7COMM, BACNET, IPMI, TRICONEX, SRTP, MOXA, KAMSTRUP, GUARDIAN-AST, IEC104, EtherNet/IP, DNP3, JET-DIRECT, RTSP, UPnP, CDP, TCP port listener, SMTP, RADIUS, Mysql, MQTT, SIP, XMPP, 3GPP, CANBus, B.BRAUN and VNC.
Deception VMs Shipped	VM model 24×7 FortiCare, Deceptor Bundle Contract included license for Deception Decoys, Deception Lures plus FortiGuard Services Subscriptions (AREA, AV, IPS, and Web Filtering). 1 network VLAN unit price, minimum order of 2 VLANs. Support up to 20 Deception VMs and up to 128 network VLANS
Virtual Machine	
Hypervisor Support	VMWare vSphere ESXi 5.1, 5.5, 6.0 or 7.0 and later, KVM, Hyper-V, AWS. AZURE, GCP
Virtual CPUs (Min / Max)	12 / Unlimited* Intel Virtualization Technology (VT-x/EPT) or AMD Virtualization (AMD-V/RVI)
Virtual Network Interfaces	6
Virtual Memory (Min / Max)	16 GB / Unlimited**
Virtual Storage (Min / Max)	200 GB / 16 TB***

* Fortinet recommends that the number of virtual CPUs is two plus the number of Deception VMs when each Deception VM requires 2vCPU.

** Fortinet recommends that the size of virtual memory is 4GB plus 2 GB for every Deception VM clone.

*** Fortinet recommends that the size of virtual storage is 1TB for production environment.

Ordering Information

FORTIDECEPTOR VM

Product	SKU	Description
FortiDeceptor-VM Subscription License	FC1-10-DCVMS-496-02-DD	VM model 24×7 FortiCare, Deceptor Bundle Contract included license for Deception Decoys, Deception Lures plus FortiGuard Services Subscriptions (AREA, AV, IPS, and Web Filtering). 1 network VLAN unit price, minimum order of 2 VLANs. Support up to 20 Deception VMs and up to 128 network VLANS

FORTIDECEPTOR HARDWARE

Product	SKU	Description
FortiDeceptor-1000G	FDC-1000G	FortiDeceptor 1000G Appliance. Support up to 20 Deception VMs and 128 VLANS
	FC1-10-DC1KG-495-02-DD	Deceptor Bundle Contract included license for Deception Decoys, Deception Lure plus FortiGuard Services Subscriptions (AREA, AV, IPS, and Web Filtering).1 VLAN unit price, minimum order of 2 VLANs
	FC-10-DC1KG-247-02-DD	24×7 FortiCare Contract
	FC-10-DC1KG-210-02-DD	Next Day Delivery Premium RMA Service (requires 24×7 support)
	FC-10-DC1KG-211-02-DD	4-Hour Hardware Delivery Premium RMA Service (requires 24×7 support)
	FC-10-DC1KG-212-02-DD	4-Hour Hardware and Onsite Engineer Premium RMA Service (requires 24×7 support)
	FC-10-DC1KG-301-02-DD	Secure RMA Service
FortiDeceptor Rugged 100G	FDR-100G	FortiDeceptor-100G Rugged Appliance, Support up to 8 Deception VMs and 48 VLANS
	FC1-10-DR1HG-495-02-DD	Deceptor Bundle Contract included license for Deception Decoys, Deception Lure plus FortiGuard Services Subscriptions (ARAE, AV, IPS, and Web Filtering). One VLAN unit price, minimum order of two VLANs
	FC-10-DR1HG-247-02-DD	FortiCare Premium Support
	FC-10-DR1HG-210-02-DD	Next Day Delivery Premium RMA Service (Requires FortiCare Premium or FortiCare Elite)
	FC-10-DR1HG-211-02-DD	4-Hour Hardware Delivery Premium RMA Service (Requires FortiCare Premium or FortiCare Elite)
	FC-10-DR1HG-212-02-DD	4-Hour Hardware and Onsite Engineer Premium RMA Service (Requires FortiCare Premium or FortiCare Elite)
	FC-10-DR1HG-301-02-DD	Secure RMA Service

FORTIDECEPTOR LICENSES ADD-ONS

Product	SKU	Description
FortiDeceptor Central Management License	FC1-10-FDCCM-497-02-DD	Central Management seat license per FortiDeceptor device. One manageable appliance unit price, minimum order of two manageable appliances.
FortiDeceptor Windows License*	LIC-FDC-WIN	Expands FortiDeceptor Licensed Windows VM capacity by 2. (1) Win7 and (1) Win10 license added

* This Windows License applies to FDC-VMS, FDC-1000G, and FDR-100G.

Note: The network VLAN license cost is per class C network (/24), one VLAN per network. For subnet networks greater than class C (/23,/22), the cost is two VLANs per network.

Fortinet Corporate Social Responsibility Policy

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the Fortinet EULA and report any suspected violations of the EULA via the procedures outlined in the Fortinet Whistleblower Policy.

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