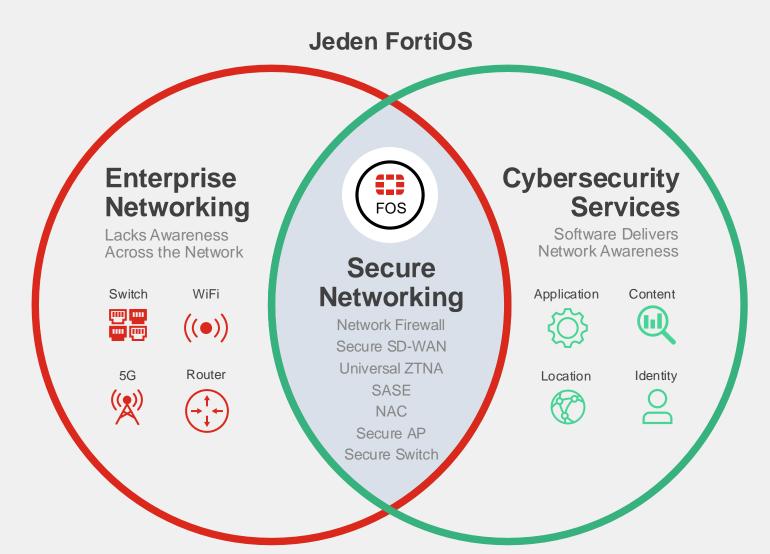
FRTINET Output Description The state of the state

Jak vydělávat na službách kyberbezpečnosti

Václav Molík

Major Account Manager - Telco/ISP

Konvergence síťové a bezpečnostní infrastruktury



Výhody konvergence

- Je to jednodušší eliminuje se mnoho produktů
- Efektivní řízení pomocí jedné konzole
- End-to-end měření digitální zkušenosti
- Úspora z důvodu redukce počtu výroců



Typická nasazení Fortigate v prostředí ISP

Prevent Internal and External Threats across all network edges

Internet CPE Sdílený virtuální FW Entry-level modely FortiGate jako Zákazník využívá VDOM (virtuální CPE na internet přípojce, doménu v rámci HW zařízení) rozšiřitelné na NGFW, SDWAN jako dedikovaný NGFW nebo pro bezpečný vzdálený Z jednoho DC obsloužím mnoho přístup business zákazníků Součást infrastruktury ISP Bezpečný internet Perimeter FW ISP "vyčistí" provoz z Internetu Segmentační FW Bezpečnostní profily pro různé skupiny zákazníků.



NAT, zdroj NetFlow

FortiGate Product Offering

	Entry Level	Mid-Range		High-End	Ultra High-End	Virtual Appliances
Mobile Security						
Hyperscale *					6000-7000	•••••
Network Segmentation				1000-4000	Series	
IPS				Series		FG-VM
Secure SD-WAN			400-900 Series			
NGFW	···· /	100-200 Series				
Universal ZTNA	30-90 Series					
Threat Protection	0.6 – 2.2 Gbps	1 – 3 Gbps	5 Gbps – 20 Gbps	13 – 75 Gbps	60 Gbps – 520 Gbps	H/W Dependent



Internet CPE a další cesta

Konvergence síťové a bezpečnostní infrastruktury

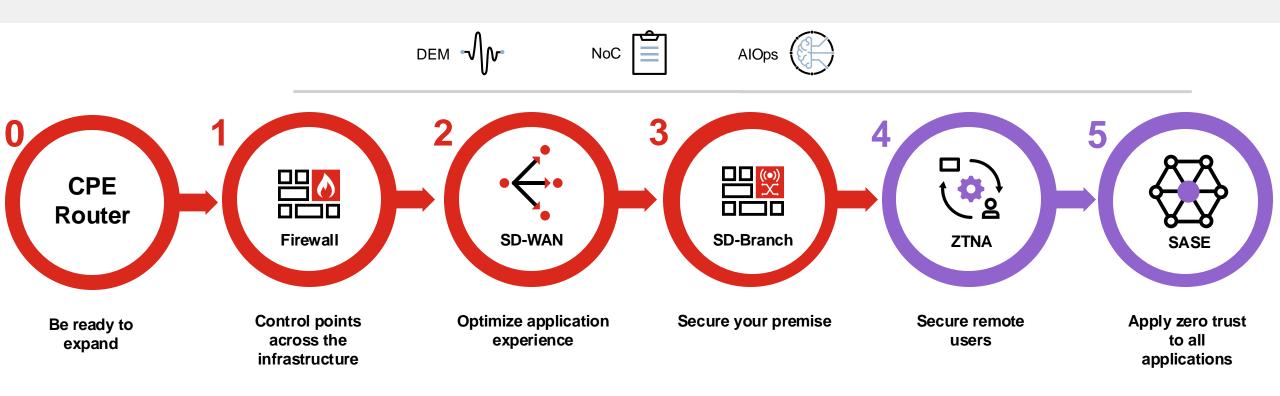
WLAN, LAN, SD-WAN, ZTNA, SASE a network firewall

úspora při použití jednoho universálního zařízení





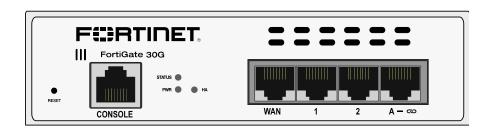






RouterBoard 1100x4 vs. FortiGate/FortiWiFi 30G





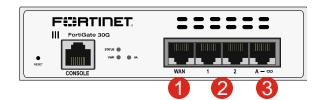
Koncová cena 329 USD

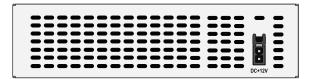
Koncová cena 427 USD

0,3-7,3 Gbps	Routing	IPv4 and IPv6 FW Throughput	4 Gbps
456 Mbps	IPsec VPN Thro	ughput (512 byte), AES256-SHA256	3.5 Gbps
N/A	Threat protection	n throughput	500 Mbps



FortiGate/FortiWiFi 30G





- 1 x GE RJ45 WAN Port
- 2 x GE RJ45 Ports
- 1 x GE RJ45 FortiLink Port





4 Gbps

30,000

New Sessions/Sec



Firewall throughput

600,000 Concurrent Sessions





800 Mbps IPS Throughput



570 Mbps NGFW Throughput



500 Mbps

Threat Protection Throughput



Small Business / Remote Office

NGFW / Secure SD-WAN







FortiGate Entry Level Series: Comparison

	FG-30G	FG-40F	FG-50G	FG-60F	FG-70F	FG-80F	FG-90G
Firewall (1518/512/64 byte UDP)	4/ 4/ 3.9 Gbps	5 / 5 / 5 Gbps	5 / 5 / 4 Gbps	10 / 10 / 6 Gbps	10 / 10 / 6 Gbps	10 / 10 / 7 Gbps	28 / 28 / 27.9 Gbps
Concurrent Sessions	600,000	700,000	720,000	700,000	1.5 Mil	1.5 Mil	3 Mil
New Sessions/Sec	30,000	35,000	85,000	35,000	35,000	45,000	124,000
IPSec VPN	3.5 Gbps	4.4 Gbps	4.5 Gbps	6.5 Gbps	6.1 Gbps	6.5 Gbps	25 Gbps
IPS (Ent. Mix)	800 Mbps	1 Gbps	2.25 Gbps	1.4 Gbps	1.4 Gbps	1.4 Gbps	4.5 Gbps
NGFW (Ent. Mix)	570 Mbps	800 Mbps	1.25 Gbps	1 Gbps	1 Gbps	1 Gbps	2.5 Gbps
Threat Protection (Ent. Mix)	500 Mbps	600 Mbps	1.1 Gbps	700 Mbps	800 Mbps	900 Mbps	2.2 Gbps
Interfaces	4 x GE RJ45	5 x GE RJ45	5 x GE RJ45	10 x GE RJ45	10 x GE RJ45	10 x GE RJ45	8x GE RJ45, 2x 10 GE RJ45/SFP+ Shared Media
Storage	-	-	64 GB	128 GB (61F)	128 GB (71F)	128 GB (81F)	120 GB (91G)
Variants	WiFi	WiFi, 3G4G	WiFi, DSL, SFP, POE	WiFi	-	Bypass, PoE, 3G4G, DSL	-
Feature Support	No VDOM, Proxy functions, SSL VPN	No Proxy functions – 7.4.4+, No SSL VPN 7.6.0+	No Proxy functions, SSL VPN	No Proxy functions – 7.4.4+, No SSL VPN 7.6.0+	-	-	No Proxy functions, SSL VPN

FortiGate Mid-Range Series - Overview



High-Performance, Top-Rated Network Security for Mid-Sized **Enterprises**



- ## FG-900G Series
- ## FG-600E/F Series
- ## FG-400E/F Series
- ## FG-200E/F/G Series
- ## FG-100F/120G Series



NGFW



Secure SD-WAN



SWG (600 series+)



IPS (600 series+)



20 Gbps – 164 Gbps Firewall throughput



1.6 Gbps – 22 Gbps **NGFW Throughput**



2.6 Gbps – 26 Gbps



1 **Gbps** – **20 Gbps**

Threat Protection Throughput



GE RJ45 | GE SFP | 10GE SFP+ | 25GE SFP28



FortiGate High End Series - Overview



Data Center Firewall / Large Enterprise NGFW with High-Speed Interfaces



IPS Throughput

- ## FG-4000F Series
- ## FG-3000E/F Series
- ## FG-2000E/F Series
- ## FG-1000E/F Series





NGFW, IPS



Segmentation



SWG



Mobile Security



80 Gbps — 3.1 Tbps
Firewall throughput

11.5 Gbps – 94 Gbps



9 Gbps – 82 Gbps



5.4 Gbps – 75 Gbps

Threat Protection Throughput



GE RJ45 | GE SFP 10GE SFP+ 25GE SFP28 40GE QSFP+ 100GE QSFP28 200GE QSFP56 400GE QSFP-DD



The only NGFW that offers SOCaaS

- Cloud-based
- Managed Security & Monitoring
- Analyze FortiGate Security Events



- Alert triage
- Escalates confirmed threats
- Recommendations for response



Monitor

 Monitoring powered by FortiGuard Threat Intelligence and security experts



Detect

- 24/7/365 security operations
- Security event monitoring



Investigate

- Alert triage
- Incident analysis and validation



Respond

- Incident escalation to local teams
- Consultation for remediation and containment



Management & Tuning

 Configuration and security posture improvement



The Broadest Platform in Cybersecurity



Secure Networking



FortiGate

NGFW with ASIC acceleration and industry leading Convergence



FortiAP

Protected Wi-Fi connectivity via Secure Networking convergence with FortiGate



Visibility, access control and automated responses for all networked devices



FortiGate Cloud

SaaS platform offering zero-touch deployment, network management and security analytics



FortiAlOps

Al based insights for rapid analysis and remediation of network issues



FortiVoice

Unified communications with secure voice, chat, conferencing, and fax



FortiRecorder

Secure NVR with smart Al analysis and centralized visibility



FGaaS

Hardware as a service for FortiGate



FortiSwitch

Protected Ethernet connectivity via Secure Networking convergence with FortiGate



FortiManager

Centralized management of your Fortinet security infrastructure



FortiExtender

Extend scalable and resilient LTE and LAN connectivity



FortiEdge Cloud

Cloud management for standalone LAN, WLAN and 5G gateway equipment



FortiFone

Robust IP phones and softclient to stay connected from anywhere



FortiCamera

Physical security with intelligent motion detection in any light condition



FortiConverter

Secure and automated firewall migration from a broad spectrum of vendors



Unified SASE

SASE

FortiGate SD-WAN

Application-centric, scalable. and Secure SD-WAN with NGFW



FortiClient ZTA Agent

Remote access, application access, and risk reduction



FortiProxy Enforce internet compliance and

granular application control



FortiCASB

Prevent misconfigurations of SaaS apps and meet compliance

FortiClient EPP Agent

Endpoint Protection Agent with AV. URL and Sand-box



FortiSASE

Cloud-delivered Security Services Edge



FortiMonitor

SaaS based DEM platform. performance monitoring

CLOUD



FortiGate VM

FortiGSLB

NGFW w/ SOC acceleration and industry-leading secure SD-WAN

against critical web assets

unexpected network downtime

Flexible daily usage-based

consumption licensing for a broad



Hosted cloud-native firewall for



FortiADC

Application-aware intelligence for distribution of application traffic



Machine-learning quickly inspects traffic at lavers 3, 4, and 7



annual contracts, renewals, upgrades, and co-terms



Simplified, flexible licensing for

FortiGate CNF

simplified cloud network security





FortiPoints



Al-Powered FortiGuard Security



Web Filtering

Attack Surface

Sandbox

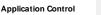
catalog of solution













Endpoint DLP and Insider OT Security Services Risk management



Security Operations

monitoring and response

Enterprise-wide monitoring,

threat detection, and response

Automated endpoint protection

and correlated incident response

Automated security operations,

Al-driven analysis to detect and

Continuous security monitoring,

incident triage, and escalation

Rapid detection, containment,

and recovery of cyberattacks

Active deception platform

for early in-network attack

Management as a Service

Access management solution

Secure code to cloud with a

single, data-driven platform

for temporary access to

quests and visitors

FortiCNAPP

FortiNextDLP

detection and response

FortiTrust Identity

Identity and Access

(IDaaS)

FortiGuest

investigation, and response

FortiAnalyzer

FortiEDR/XDR

FortiSOAR

FortiNDR

IR Services

FortiDeceptor

respond to threats

FortiSIE M

Al-powered, protection against email-borne threats



FortiSandbox

Al-powered real-time protection against unknown and 0-day threats



■384629 FortiToken

Cloud/HW/Mobile MFA provide passwordless adaptive authentication



FortiAuthenticator

Centralized identity and access management solution



FortiGuard MDR Service

Managed threat detection, investigation, and response



FortiRecon

Proactive digital risk protection service and external/internal threat monitoring



FortiPAM

Privileged identity and access management, and session monitoring



FortiTester Network performance testing and breach attack simulation



FortiDev Sec

Orchestrated and automated continuous application security testina



FortiDAST

Automated black-box dynamic application security testing



FortiScanner Cloud

Cyber Asset Attack Surface Management Service



FortiAl

Integrated Gen Al Assist for SOC and NOC



OT Security Platform



OT Security Service

FortiGuard subscription for FortiGate NGFW enables protection against OTspecific threats



Ruggedized Products Rugged NG FW, switch, AP.

and 5G extenders provide secure connectivity in harsh outdoor environments



FortiSRA

Agentless secure remote access offers robust remote access control, management, session logging, monitoring, and recording



SecOps for OT

Advanced cybersecurity controls bring OT networks into the SOC and incident response plans



Open Ecosystem



Advanced tools for Fortinet community to develop custom solutions



Fabric Connectors

Fortinet-developed integrations for automation and security



integrations for end-to-end visibility and protection

DevOps Tools Community-driven scripts automate network/security



tasks

Extended Ecosystem

Integrates with third-party systems and orgs for sharing threat-intel



Resources





by 2025 FortiOS

The Heart of the Fortinet Security Fabric



Fortinet Brochure Highlighting our broad,

integrated, and automated solutions, quarterly Free Assessment



Support and mitigation services



Perform an assessment in your network to validate your existing controls



FortiCare







IL CASB





