

Ressourcen Schutz in der Microsoft Cloud - Firebox Cloud for Microsoft Azure

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Agenda

- Firebox Cloud Overview
- Fireware OS and Management
- Licensing and Services
- Feature Differences from other Fireboxes
- Deployment Overview
- Fireware Web UI
- Default Configuration



Firebox Cloud Features

- Runs the same Fireware OS as other Fireboxes
- Protects a virtual network from attacks such as botnets, cross-site scripting, SQL injection attempts, and other intrusion vectors
- Enables secure VPN connections to a virtual network
- Compatible with Dimension for monitoring and reporting



Primary Use Cases

- Protect a server on a virtual network
 - Firewall
 - Security services
- Branch Office VPN (BOVPN) endpoint
 - VPN endpoint for encrypted connections between other networks and a virtual network
- Mobile VPN
 - VPN endpoint for encrypted connections from SSL, L2TP, IPSec, or IKEv2 mobile VPN clients to a virtual network

Firebox Cloud Licensing — Azure

- Firebox Cloud for Azure support
 - Bring your own license (BYOL)
 - Pay as you go (PAYG)
- The Firebox Cloud model license you purchase specifies the maximum number of CPU Cores your Firebox Cloud can use

Firebox Cloud Model	Maximum CPU Cores
Small	2
Medium	4
Large	8
Extra Large	16

Firebox Cloud — Instance Sizes

 Recommended instance sizes for Firebox Cloud depend on the Firebox Cloud model

Model	Instance Sizes for Azure	Instance Sizes for AWS
Small	Standard_A1_v2, Standard_A2_v2, Standard_D2_v3, Standard_D2s_v3, Standard_F1, Standard_F2, Standard_F2s_v2	c4.large, m4.large
Medium	Standard_A4_v2, Standard_D4_v3, Standard_D4s_v3, Standard_F4, Standard_F4s_v2	c4.xlarge, m4.xlarge
Large	Standard_A8_v2, Standard_D8_v3, Standard_D8s_v3, Standard_F8, Standard_F8s_v2	c4.2xlarge, m4.2xlarge
Extra Large	Standard_D16_v3, Standard_D16s_v3, Standard_F16, Standard_F16s_v2	c4.4xlarge, m4.4xlarge

Administration

- Administer Firebox Cloud with Fireware Web UI, CLI, or Dimension Command (requires Fireware 12.1 or higher)
- Since Version 12.2 you can administer Firebox Cloud with WatchGuard System Manager, Policy Manager, or WatchGuard Management Server
- Limited Web Setup Wizard
 - Firebox Cloud uses a default configuration

Included Subscription Services

- Application Control
- WebBlocker
- Gateway AV
- APT Blocker
- Intrusion Prevention Service (IPS)
- Reputation Enabled
 Defense
- Geolocation
- Botnet Detection

- Data Loss Prevention
- Threat Detection and Response (TDR)
- spamBlocker and Quarantine Server (requires Fireware v12.2 or higher)
- Access Portal (requires Fireware v12.1 or higher)

Feature Differences from Other Fireboxes

- Networking features not supported:
 - Drop-in mode and Bridge mode
 - DHCP server and DHCP relay (all interfaces are DHCP clients)
 - PPPoE
 - IPv6
 - Multi-WAN (includes sticky connections and policy-based routing)
 - ARP entries
 - Link Aggregation
 - VLANs
 - FireCluster
 - Bridge interfaces

Feature Differences from Other Fireboxes

- Policy and Security Services not supported:
 - Explicit-proxy and Proxy Auto-Configuration (PAC) files
 - Quotas
 - DNSWatch
 - Network Discovery
 - Mobile Security
- Authentication features not supported:
 - Hotspot

Feature Differences from Other Fireboxes

- System Administration features not supported:
 - Logon disclaimer for device management connections
 - USB drive for backup and restore
- Other features not supported:
 - Gateway Wireless Controller
 - Mobile VPN with SSL Bridge VPN Traffic option

Network Interface Configuration

- Firebox Cloud supports up to 8 interfaces
 - 1 external
 - Up to 7 internal
- All interfaces use DHCP to request an IP address
 - There are no interface settings in Fireware Web UI
- You configure all network interface settings in Azure
 - For each additional interface, you must configure the subnet, route table, and interface for the Firebox Cloud VM

Deployment Overview — Azure

- To deploy Firebox Cloud on Microsoft Azure you must:
 - 1. Create a key pair for SSH authentication
 - 2. Deploy the Firebox Cloud instance
 - 3. Activate your Firebox Cloud license
 - 4. Add the feature key

For more information, see the *Firebox Cloud Deployment Guide*

(https://www.watchguard.com/help/docs/fireware/12/en-US/Firebox-Cloud_Deployment-Guide.pdf)

 Connect to Fireware Web UI at the eth0 public IP address of your Firebox

Deployment Overview — Azure

- To find the Firebox Cloud Instance ID:
 - In the Azure left navigation menu, select Storage accounts.
 - Click the name of the storage account associated with your Firebox Cloud instance.
 - In the Blob Service list, select Containers.
 - Find the boot diagnostic container. The name of the boot diagnostic container is in the format:
 - <bootdiagnostics>-<vmname>-<vmid>

Firebox Cloud Setup Wizard

- The first time you connect, the Web Setup Wizard appears
 - Create new passphrases for the built-in user accounts
 - Log in again with the new passphrase

WatchGuard	Fireware Web UI	User: (?) 🚺
Create passphra	ses for your Firebox Cloud	
Your Firebox Cloud has two) built-in user accounts:	
admin has read-write pri status has read-only priv	rileges. Ieges.	
Type the passphrase to us Each passphrase must con	e with each account. tain between 8 and 32 characters.	
User name status	(read-only)	
Passphrase		
Confirm passphrase		
User name admin	(read-write)	
Passphrase		
Confirm passphrase		
		BACK

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Connect to Fireware Web UI

 Connect to Fireware Web UI at the external IP address of your Firebox Cloud

https://<eth0_Public_IP>:8080



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Fireware Web UI for Firebox Cloud

The Front Panel Dashboard page shows instance information



Fireware Web UI for Firebox Cloud

 The Interfaces Dashboard page shows interface configuration information for the Firebox Cloud instance



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Add a Feature Key

- When you purchase Firebox Cloud, you get a serial number
- After you deploy Firebox Cloud, activate the serial number in the WatchGuard Portal
 - To activate, specify the serial number and the Firebox Cloud Instance ID (VM ID)
 - The activation process generates a feature key for that instance
 - You can apply the feature key only to a Firebox Cloud instance with the specified instance ID



Add a Feature Key

- Download the feature key to the Firebox to enable all features
 - 1. In Fireware Web UI, click Add a feature key now



2. The wizard can download and install the feature key



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Default Configuration — User Accounts

- Default user accounts are the same as for any other Firebox
 - Device Administrator account:
 - User name admin
 - Passphrase <the Firebox Cloud VM or Instance ID>
 - Device Monitor account:
 - User name status
 - Passphrase readonly
- You change these default passphrases in the Web Setup
 Wizard when you connect to Firebox Cloud the first time
- You can also select System > Users and Roles to change the passphrases for these user accounts

Default Configuration — Interfaces

- Interface 0 External, IP address assigned through DHCP
- Interface 1 Trusted, IP address assigned through DHCP

WatchGuard	Fireware Web UI		User: admin	?			
Interfaces							
Bandwidth	etail						
Interfaces							
External (eth0)			Enabled	Yes			
External (etho)			Link Status	Up			
Enabled	Yes	Interface ID	eni-fb68f9c9				
Link Status	Up	Public Hostname	ec2-34-213-87-247.us-west-2.compute.amazor	haws.com			
Zone	External	Public IPv4	34.213.87.247				
IPv4 Address	192.168.200.96/24	Local IPv4	192.168.200.96				
Gateway	192.168.200.1	Local Hostname	ip-192-168-200-96.us-west-2.compute.internal				
MAC Address	06:F2:8B:09:27:8E	Device Number	0				
		VPC ID	vpc-3c044e5a				
Trusted (arb1)			Enabled	Yes			
muster (errit)			Link Status	Up			
Enabled	Yes	Interface ID	eni-d86dfcea				
Link Status	Up	Local IPv4	192.168.250.38				
Zone	Trusted	Local Hostname	ip-192-168-250-38.us-west-2.compute.internal				
IPv4 Address	192.168.250.38/24	Device Number	1				
Gateway	192.168.250.1	VPC ID	vpc-3c044e5a				
MAC Address	06:25:01:33:8B:4C						

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Default Configuration — Firewall Policies

- WatchGuard Web UI Allows Web UI management connections from any interface to the Firebox
- **Ping** Allows ping traffic from any interface to the Firebox
- No Outgoing policy by default The Firebox does not allow outbound connections unless you configure a policy to allow it

olicie	25								
	Click the	lock to m	ake changes						
	ORDI	ACTIC	POLICY NAME	туре	FROM	то	PORT	PBR	APP CONTRO
6	1	1	HatchGuard Web UI	WG-Fireware-XTM-	Any-Trusted, Any-Optional, Any-External	Firebox	tcp:8080	<i></i>	
	2	1	(g)Ping	Ping	Any-Trusted, Any-Optional, Any-External	Any	ICMP (type: 8		
	3	1	- WatchGuard	WG-Firebox-Mgmt	Any-Trusted, Any-Optional, Any-External	Firebox	tcp:4105 tcp:-		
1.00		105							,

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Default Configuration — Services

 Supported subscription services are all configurable, but are not enabled by default

WatchGuard	Firewa	are Web UI	User: admin ? 🤦				
DASHBOARD	Applic	cation Control					
SYSTEM STATUS		Click the lock to make changes					
FIREWALL	App	Application Control Actions					
SUBSCRIPTION SERVICES	NA	ME 🗘	APPLICATION				
Access Portal	Glo	bal	Bypass Proxies and Tunnels, Crypto Admin				
Application Control APT Blocker Botnet Detection Data Loss Prevention	EDI	T Nication Control Policies					
Gateway AV	1	POLICY NAME	APPLICATION CONTROL ACTION				
Geolocation		WatchGuard Web UI	None				
IPS		Ping	None				
Reputation Enabled Defense Threat Detection WebBlocker		WatchGuard	None				
AUTHENTICATION							
VPN	Signa	ture Version: 4.764					
SYSTEM							

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More Information

- For more information about how to deploy Firebox Cloud, see the *Firebox Cloud Deployment Guide*
- For more information about how to configure Fireware features, see <u>Fireware Help</u>





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Thank You!



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