

Open NAT on Xbox One X Behind Check Point 3200 Using SmartConsole (R80.30)

Author: Mitchell Schofield

Firewall Hardware:

Check Point 3200 (R80.30)
CPU Model: Intel Atom C2558
CPU Frequency: 2400.238
Number of Cores: 4
CPU Hyperthreading: Disabled
Total Memory: 8 GB

Firewall Active Blades:

Firewall
Network Policy Management
Logging & Status

ISP:

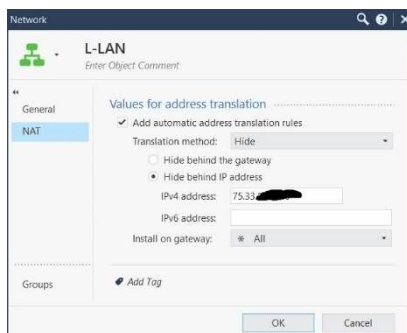
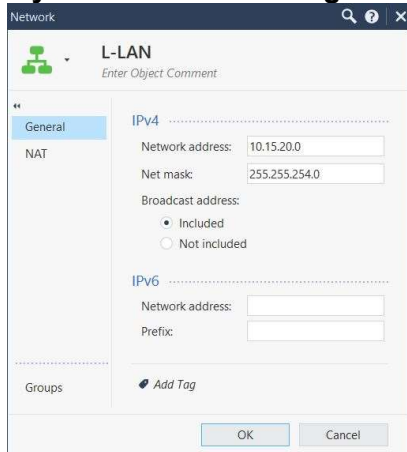
AT&T FIOS
Consumer home-based internet billed as "Internet 1000 Stand-alone".

ISP Modem/Router:

ARRIS BGW210-700
Running with modem/router settings Firewall → IP Passthrough → DHCP- Fixed to Check Point 3200 WAN port MAC address. Check Point WAN port gets the ISP WAN IP via DHCP which is generally 75.X.X.X.

This was done on a flat network with just WAN and LAN; no DMZ.

My LAN Network Config:



75.33.X.X is my WAN IP

Firewall Services to Create (UDP):

UDP Ports:

500 → named “Xbox-500” (see note 1)

3074-3076 → named “Xbox-3074-3076-UDP”

3544 → named “Xbox-3544”

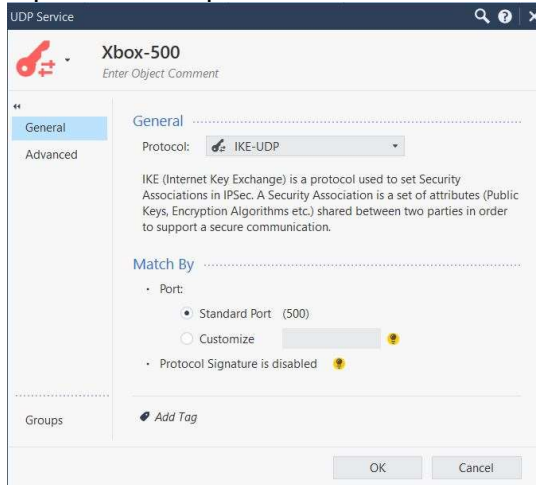
4500 → named “Xbox-4500” (see note 2)

TCP Ports:

3074-3076 → named “Xbox-3074-3076-TCP”

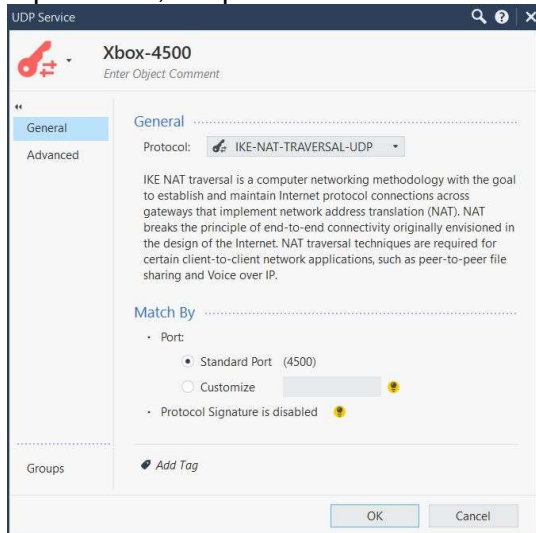
Note1:

For UDP port 500, the protocol should be “IKE-UDP”



Note 2:

For UDP port 4500, the protocol should be “IKE-NAT-TRAVERSAL-UDP”



Firewall Service Group Created:

“Xbox_Live” (containing):

- “Xbox-500”
- “Xbox-3074-3076-UDP”
- “Xbox-3544”
- “Xbox-4500”
- “Xbox-3074-3076-TCP”

My Policies:

Standard +

Access Control

- Policy
- NAT

Threat Prevention

- Policy
- Exceptions

Shared Policies

- Geo Policy

No.	Name	Source	Destination	VPN	Services & Applications	Action	Track	Install On
1	FW Management	L-LAN	CP-3200	* Any	FW1_mgmt FW1_log CPM https ssh_version_2 ssh	Accept	None	* Policy Targets
2	LAN to Internet	L-LAN	All_Internet	* Any	* Any	Accept	None	* Policy Targets
3	Xbox Live	All_Internet	W-WAN_IP	* Any	Xbox_Live	Accept	None	* Policy Targets

My NAT Policies:

Standard +

Access Control

- Policy
- NAT

Threat Prevention

- Policy
- Exceptions

Shared Policies

- Geo Policy
- Policy
- Gateways

No.	Original Source	Original Destinati...	Original Services	Translated Source	Translated Destin...	Translated Services	Install On	Com
1	* Any	W-WAN_IP	Xbox_Live	= Original	Xbox_One	= Original	* Policy Targets	
2	Xbox_One	* Any	Xbox_Live	W-WAN_IP	= Original	= Original	* Policy Targets	
Automatic Generated Rules : Machine Static NAT (No Rules)								
Automatic Generated Rules : Machine Hide NAT (No Rules)								
Automatic Generated Rules : Address Range Static NAT (No Rules)								
Automatic Generated Rules : Network Static NAT (No Rules)								
Automatic Generated Rules : Address Range Hide NAT (No Rules)								
Automatic Generated Rules : Network Hide NAT (3-4)								
3	L-LAN	L-LAN	* Any	= Original	= Original	= Original	* All	
4	L-LAN	* Any	* Any	L-LAN (Hiding Ac	= Original	= Original	* All	
Manual Lower Rules (5-9)								

It is very important that your Xbox rules are before your stealth rule. NAT rule 1 and 2 made the difference here.