



NGAF

Best Practices for Scenarios_Unknown Threat Prevention By Engine Zero & Neural-X

Version 8.0.17



Change Log

Date	Change Description
June 15, 2020	Document release.
Mar 18, 2021	Document Update.
May 17, 2021	Document update.

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Chapter 1 Scenario

1.1 Function Description

Neural-X is a security brain in the cloud, capable of collecting and analyzing global security events, and being able to identify unknown threats. The Sangfor Zero engine can use its powerful analysis capabilities to analyze unknown viruses.

1.2 Scenario:

Use NGAF to link Neural-X to protect customers' network security.

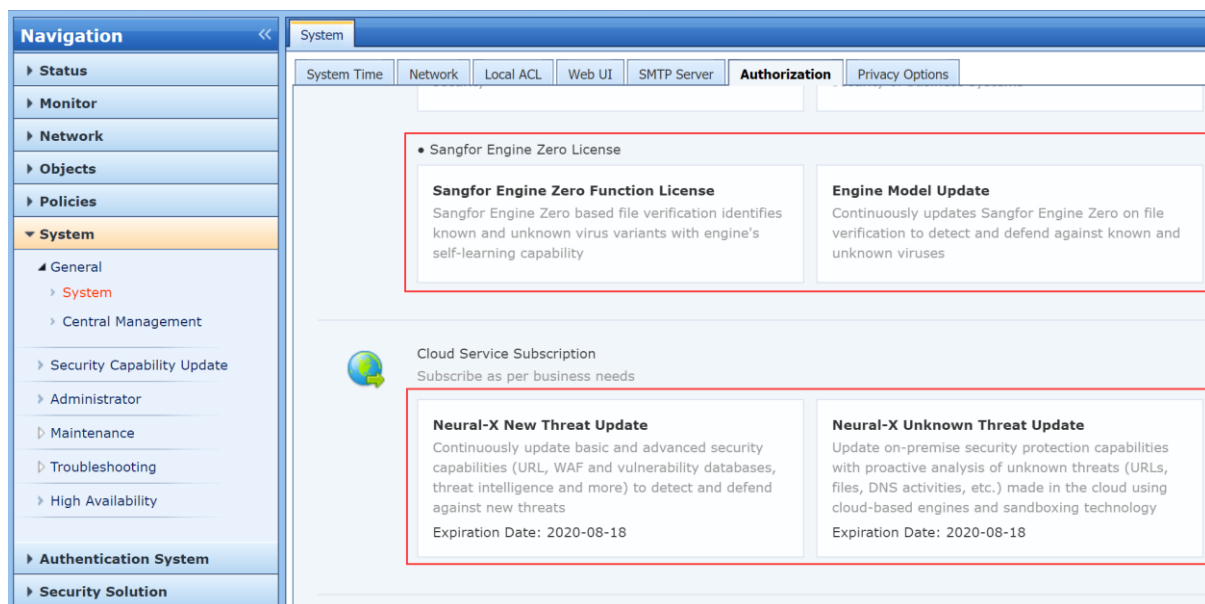
Chapter 2 Best Practice Recommendations

Scenario:

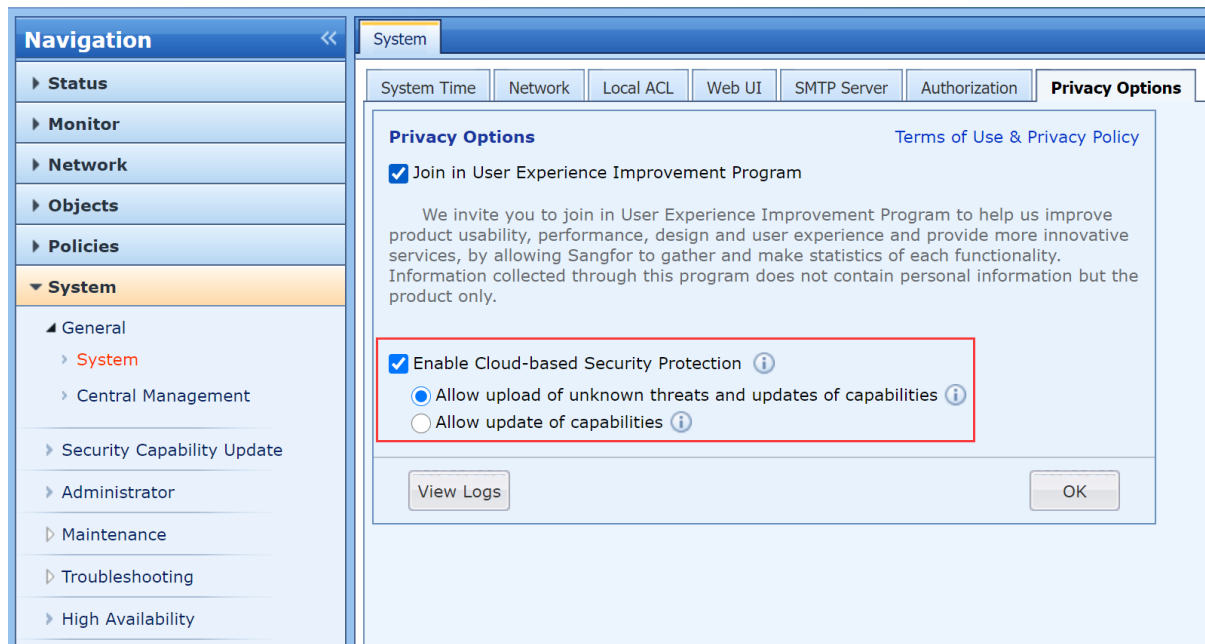
A manufacturing customer has been attacked by a hacker for a long time, and for unknown threat, the customer's previous firewall cannot effectively identify and intercept it, and wants to use Sangfor NGAF to deal with the unknown threat.

Configuration:

1. Ensure the license status of Neural-X and Sangfor Zero Engine is valid.



2. Make sure that Cloud-based Security Protection is enabled.

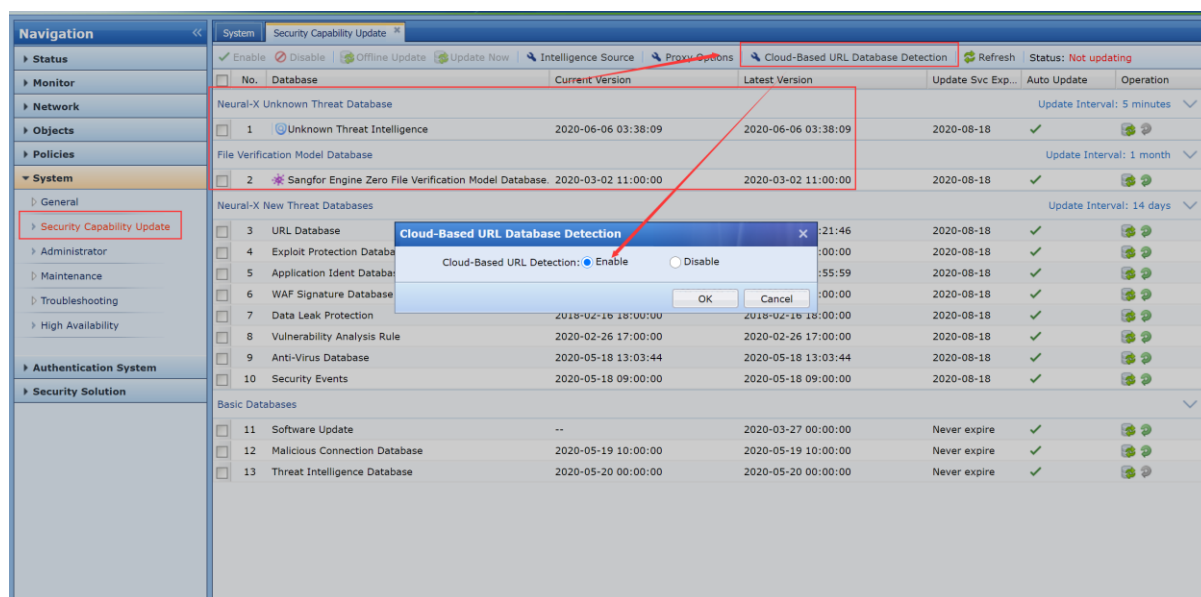


3. Ensure that the unknown threat Intelligence database, Sangfor Zero Engine model, and anti-virus database are all updated to the latest version.

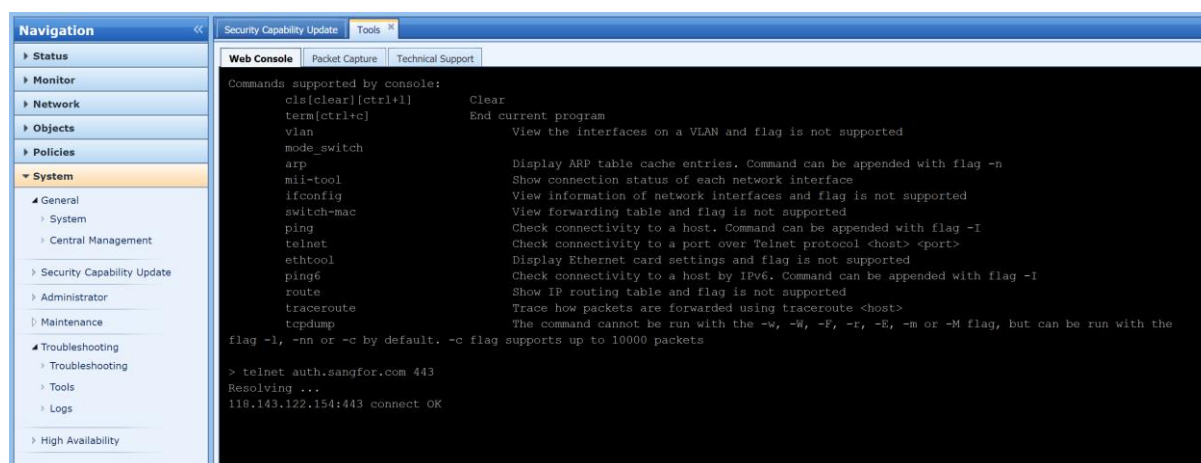
No.	Database	Current Version	Latest Version	Update Svc Exp...	Auto Update	Operation
Neural-X Unknown Threat Database						
1	Unknown Threat Intelligence	2020-06-06 05:30:22	2020-06-06 05:30:22	2020-08-18	✓	
File Verification Model Database						
2	Sangfor Engine Zero File Verification Model Database	2020-03-02 11:00:00	2020-03-02 11:00:00	2020-08-18	✓	
Neural-X New Threat Databases						
3	URL Database	2020-05-07 15:21:46	2020-05-07 15:21:46	2020-08-18	✓	
4	Exploit Protection Database	2020-05-21 17:00:00	2020-05-21 17:00:00	2020-08-18	✓	
5	Application Ident Database	2020-05-09 11:55:59	2020-05-09 11:55:59	2020-08-18	✓	
6	WAF Signature Database	2020-05-23 17:00:00	2020-05-23 17:00:00	2020-08-18	✓	
7	Data Leak Protection	2018-02-16 18:00:00	2018-02-16 18:00:00	2020-08-18	✓	
8	Vulnerability Analysis Rule	2020-02-26 17:00:00	2020-02-26 17:00:00	2020-08-18	✓	
9	Anti-Virus Database	2020-05-18 13:03:44	2020-05-18 13:03:44	2020-08-18	✓	
10	Security Events	2020-05-18 09:00:00	2020-05-18 09:00:00	2020-08-18	✓	
Basic Databases						
11	Software Update	--	2020-03-27 00:00:00	Never expire	✓	
12	Malicious Connection Database	2020-05-19 10:00:00	2020-05-19 10:00:00	Never expire	✓	
13	Threat Intelligence Database	2020-05-20 00:00:00	2020-05-20 00:00:00	Never expire	✓	

Cloud-Based URL Detection is used to strengthen NGAF's ability to recognize URLs. If customers want to enhance URL recognition capabilities, please ensure that the function is turned on.

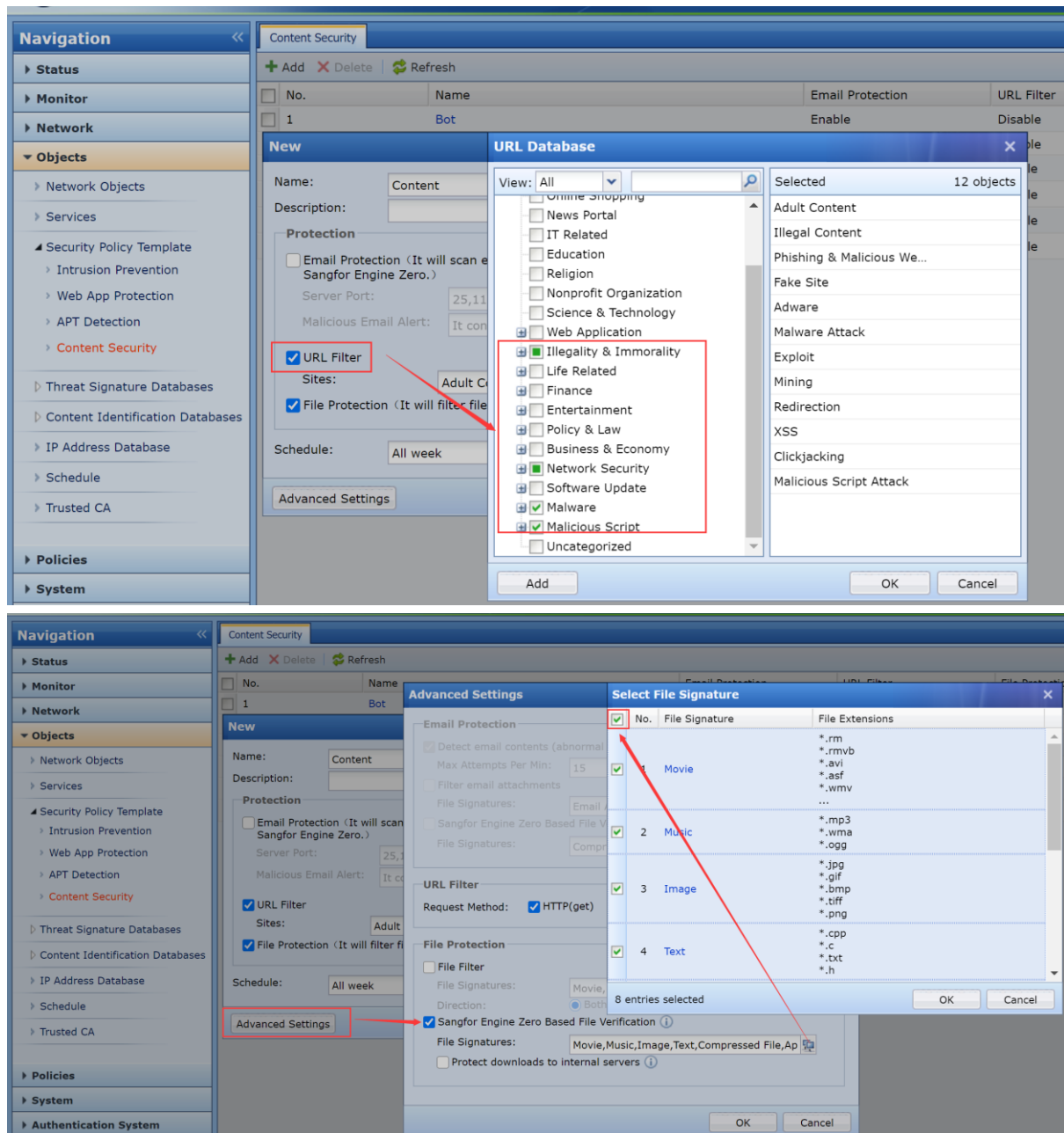
Unknown Threat Prevention By Engine Zero & Neural-X

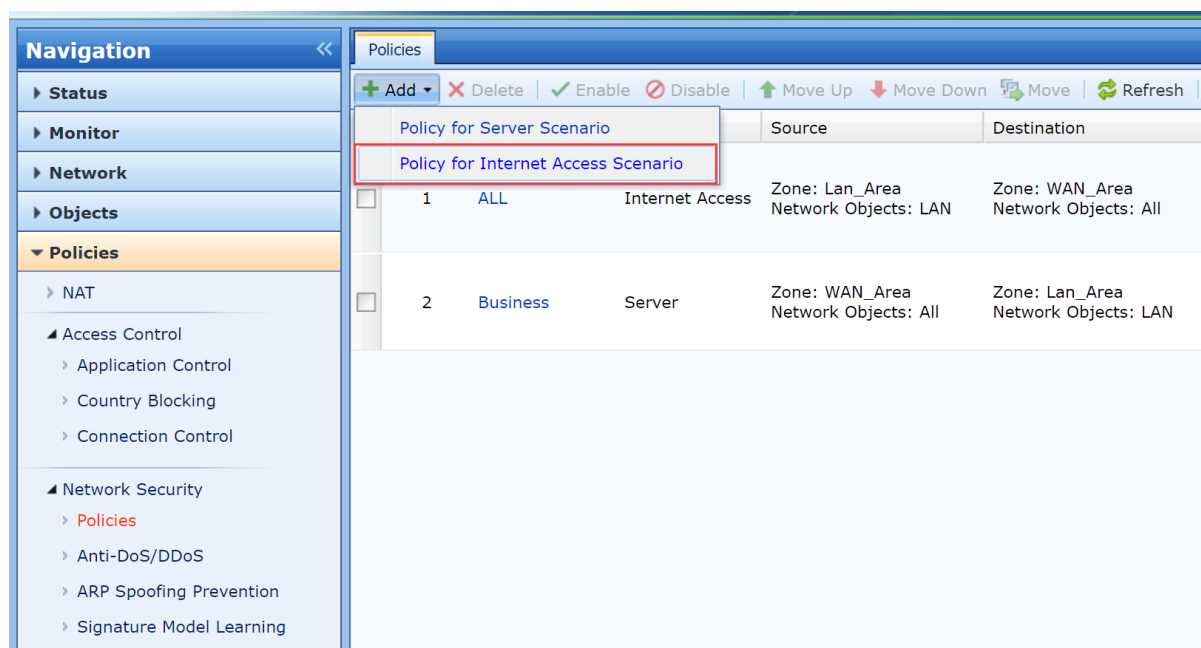


4. NGAF uses Neural-X in the cloud to strengthen its security capabilities, so it must be connected to the cloud. So you need check whether the NGAF device can access the public network address, and you'd better ask customer not block NGAF's IP in other device.

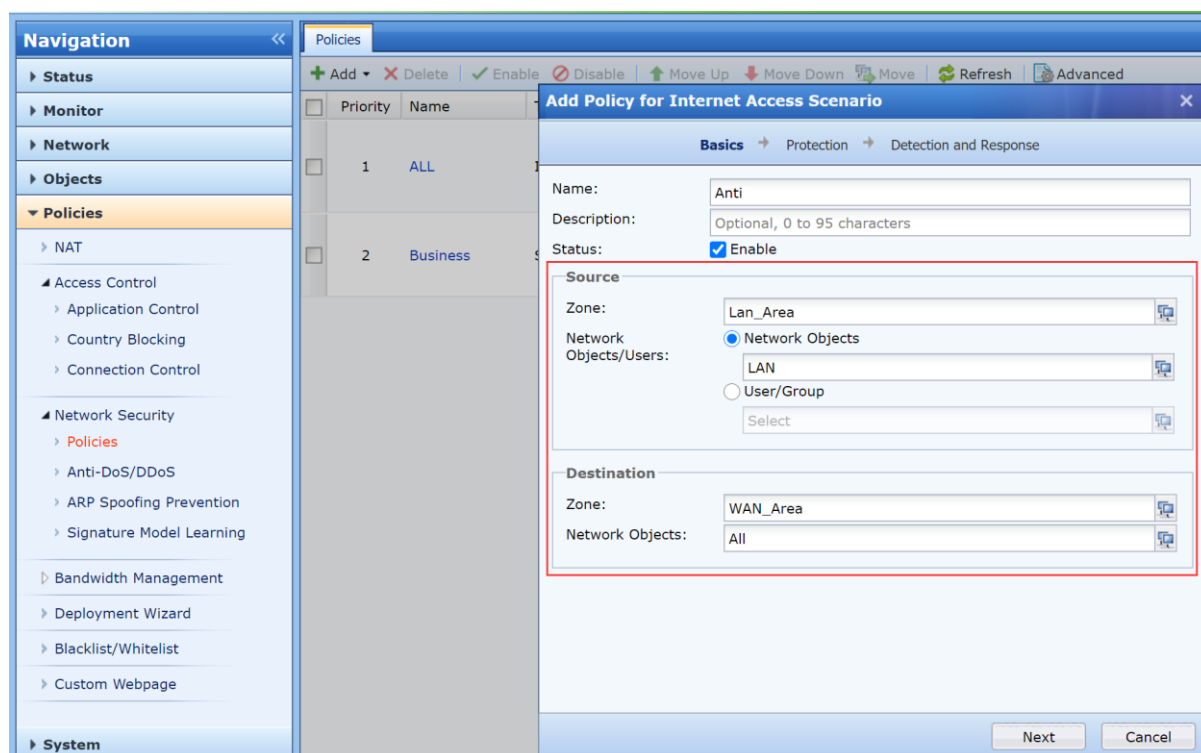


5. Configure Security Policy Template

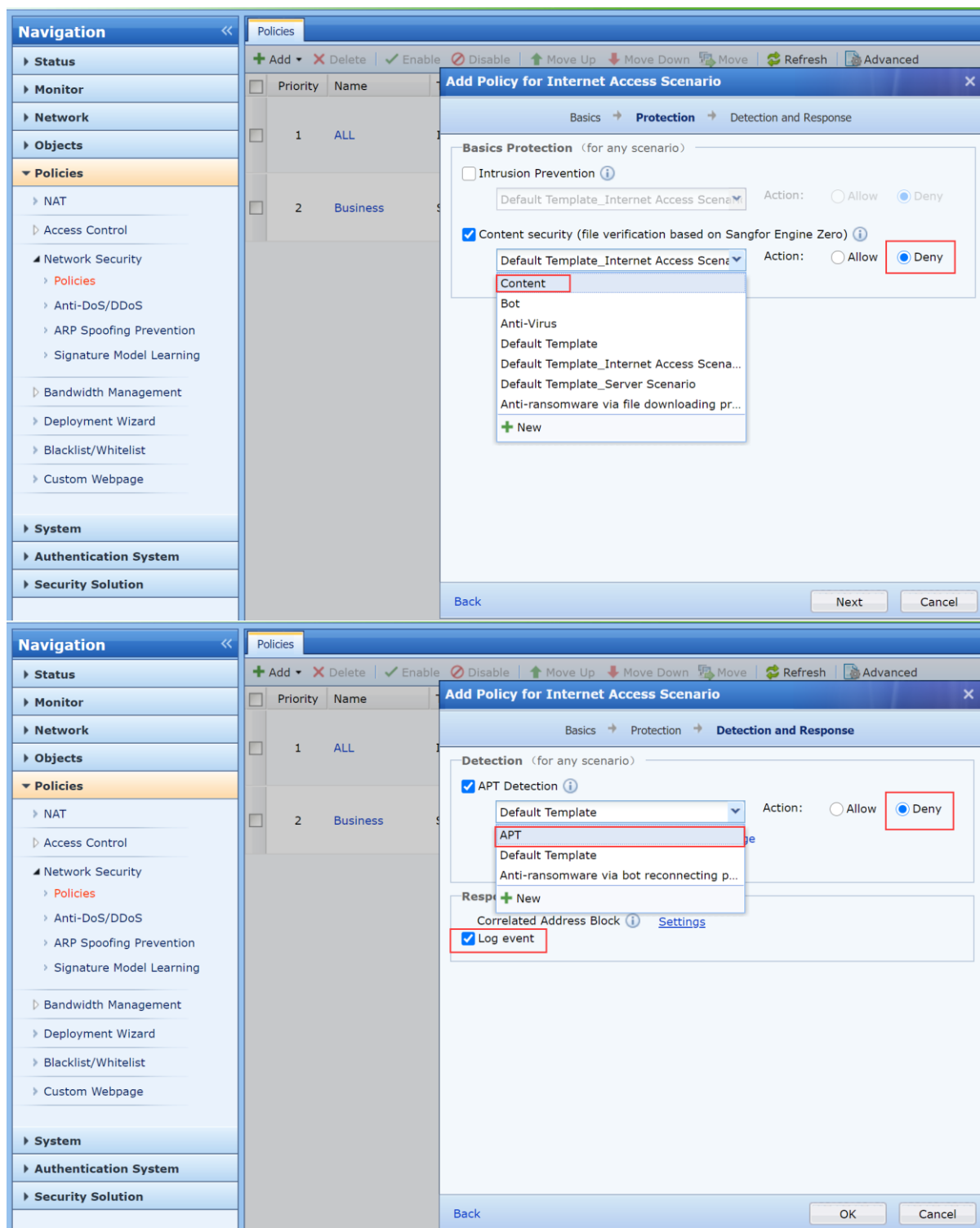




6. Ensure that the Source zone and Destination Zone is correct



7. Configure security policy and check the template you configured before.

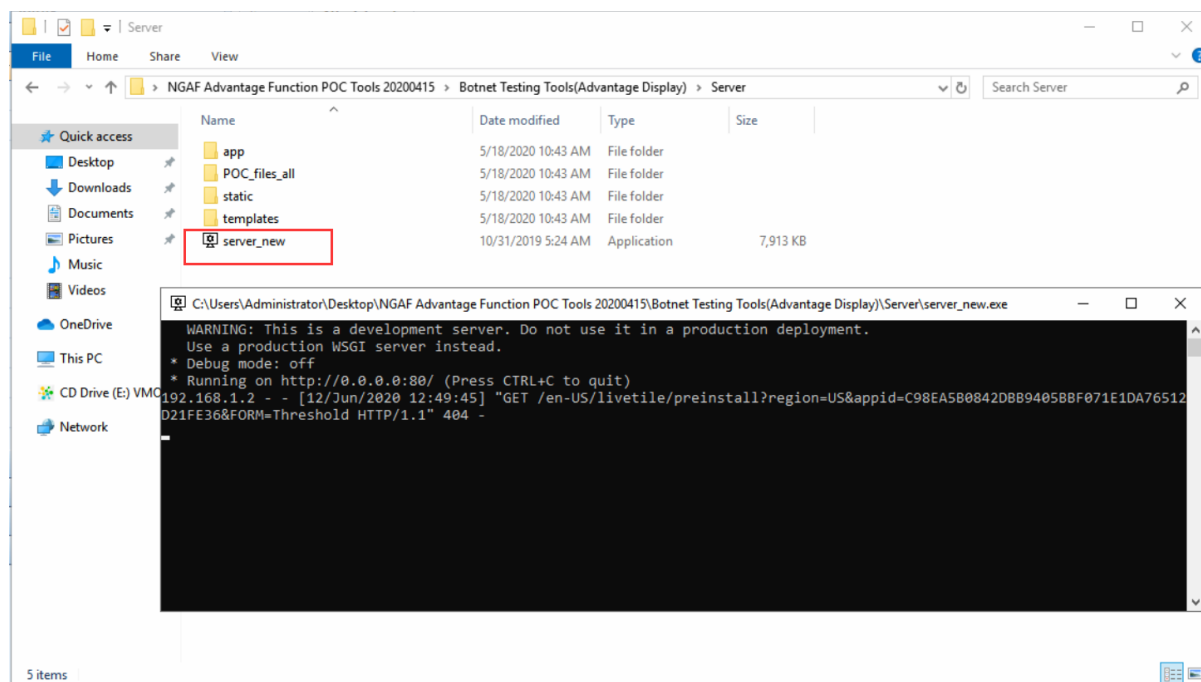


8. For example, when defending against botnets, the trapped host will access a large number of domain names, and these domain names are not included in the local database, then Neural-X needs to be used for authentication detection.

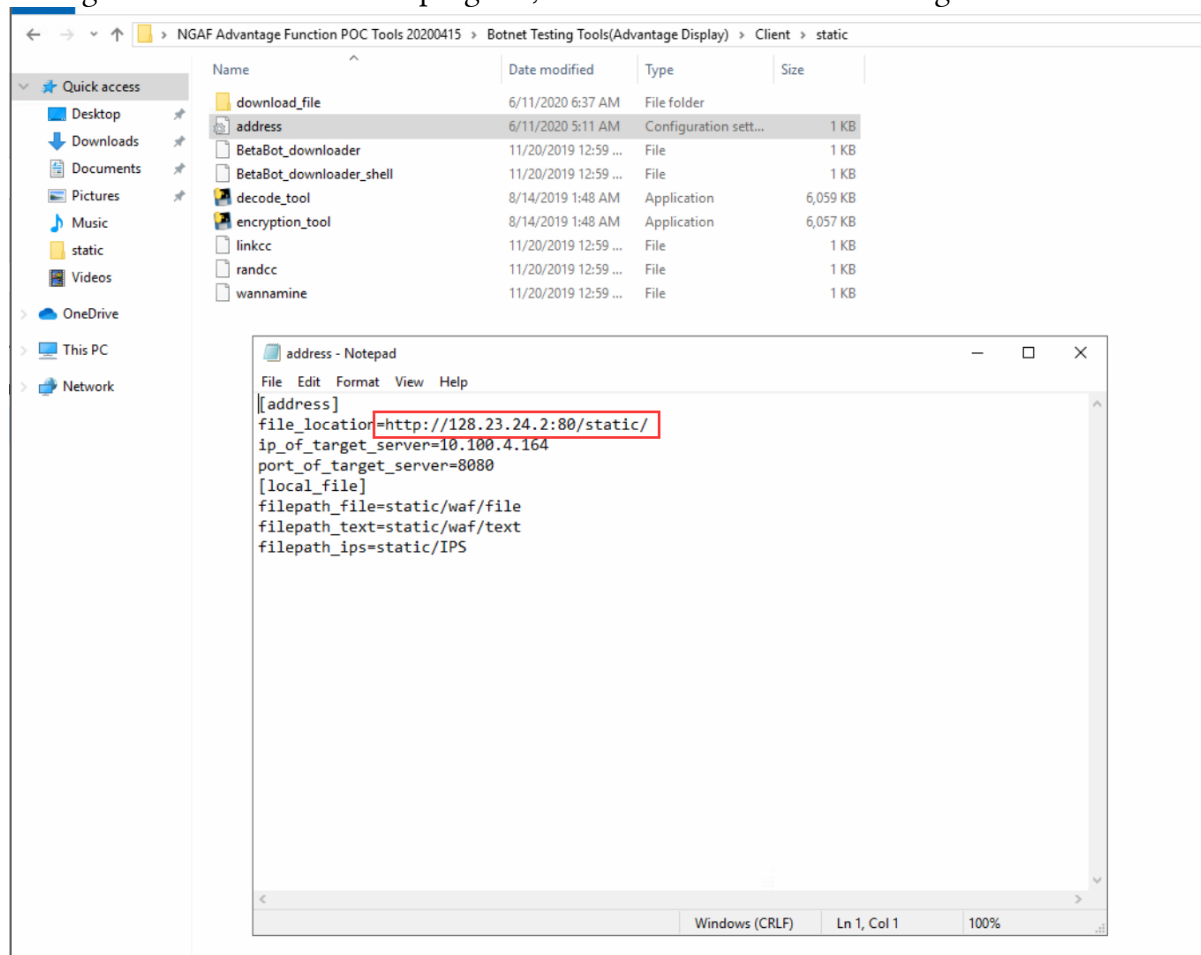
9. The attacker traps the LAN user to insert unknown USB device, so as to trigger the worm virus [Advantage_Botnet_Script_2.exe] and the AF blocks the work that send traffic out to the malicious domain name address.

Run Server_new.exe in Server PC:

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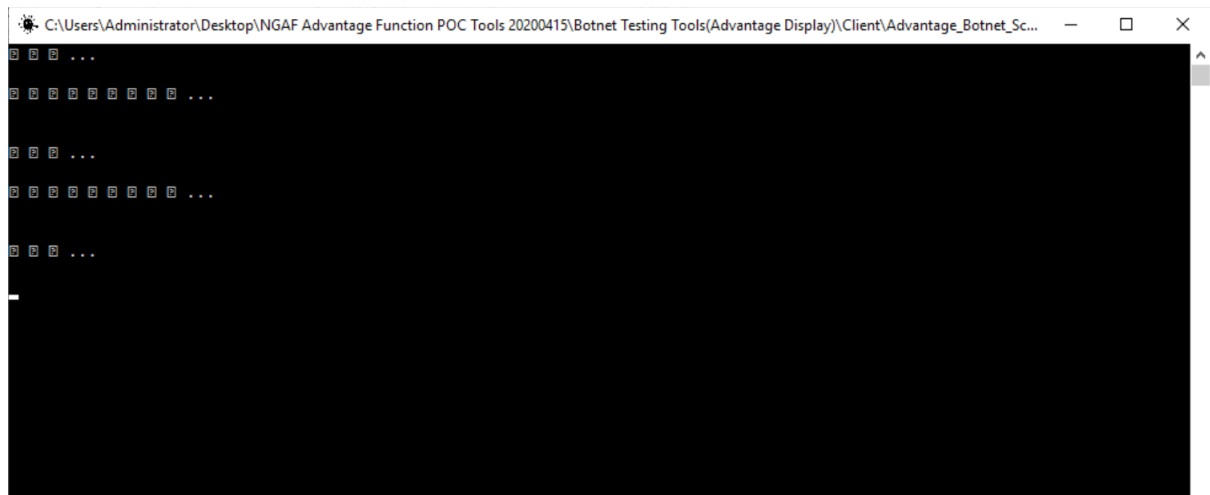


Configure the address of client program, set the Server PC's IP in configure file:



Run Advantage_Botnet_Script_2.exe in Client PC:

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10.You can query log in report center.

No.	Date	URL Category	Viru Name	Domain Name	URL	Source IP/User	Action	Detection Type	Down...	Whit...	Details
1	2020-06-12 13:14:31	-	Trojan.Win32.XPAC...	128.23.24.2	128.23.24.2/static/ ...	192.168.1.2	Deny	In the cloud	Down...	Add	View
2	2020-06-12 13:14:28	-	Trojan.Win32.XPAC...	128.23.24.2	128.23.24.2/static/ ...	192.168.1.2	Deny	In the cloud	Down...	Add	View
3	2020-06-12 13:14:21	-	Trojan.Win32.XPAC...	128.23.24.2	128.23.24.2/static/ ...	192.168.1.2	Deny	In the cloud	Down...	Add	View
4	2020-06-12 13:14:14	-	Trojan.Win32.XPAC...	128.23.24.2	128.23.24.2/static/ ...	192.168.1.2	Deny	In the cloud	Down...	Add	View
5	2020-06-12 13:14:10	-	Trojan.PDF.Generic...	128.23.24.2	128.23.24.2/static/ ...	192.168.1.2	Deny	In the cloud	Down...	Add	View
6	2020-06-12 13:14:07	-	Trojan.Win32.XPAC...	128.23.24.2	128.23.24.2/static/ ...	192.168.1.2	Deny	In the cloud	Down...	Add	View
7	2020-06-12 13:14:03	-	Trojan.Win32.XPAC...	128.23.24.2	128.23.24.2/static/ ...	192.168.1.2	Deny	In the cloud	Down...	Add	View



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