Project Spartan - Automated Threat Response

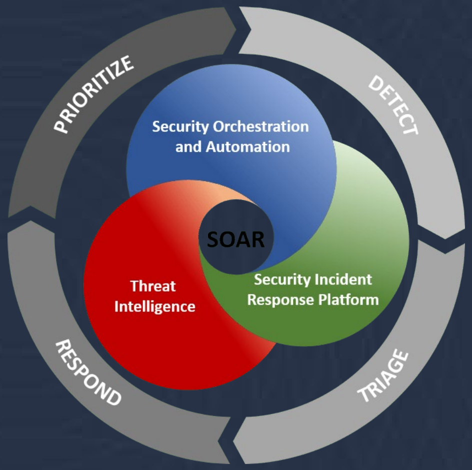
MSP

Barracuda

Your journey, secured.

What is Project Spartan?

- Barracuda XDR Automated Threat Response Project
- Incorporate automated threat response into our XDR solution
- Using a SOAR platform along with XDR capabilities, the SOC can detect and mitigate threats for customers in real time
- Provide more enhanced security by taking a proactive approach to remediate threats for our customers


PRIORITIZE
DETECT
TRIAGE
RESPOND
Security Orchestration and Automation
SOAR
Threat Intelligence
Security Incident Response Platform

eXtended visibility

- Collect Data
- Normalize and Enrich the data
- Analyze the data
- Visualize the data

Detection

- Correlate the data
- Detect threats
- Monitor and Tune

Response

- Investigate Incidents
- Respond to Incidents
- Mitigate Incidents

Supported Technologies

Firewalls in GA:

- Barracuda CloudGen
- FortiGate
- SonicWall
- Cisco Meraki

FORTINET
paloalto NETWORKS
cisco
SONICWALL
Barracuda CloudGen Firewall
WatchGuard
Check Point
JUNIPer
SOPHOS

Cloud Security in BETA:

- Microsoft 365

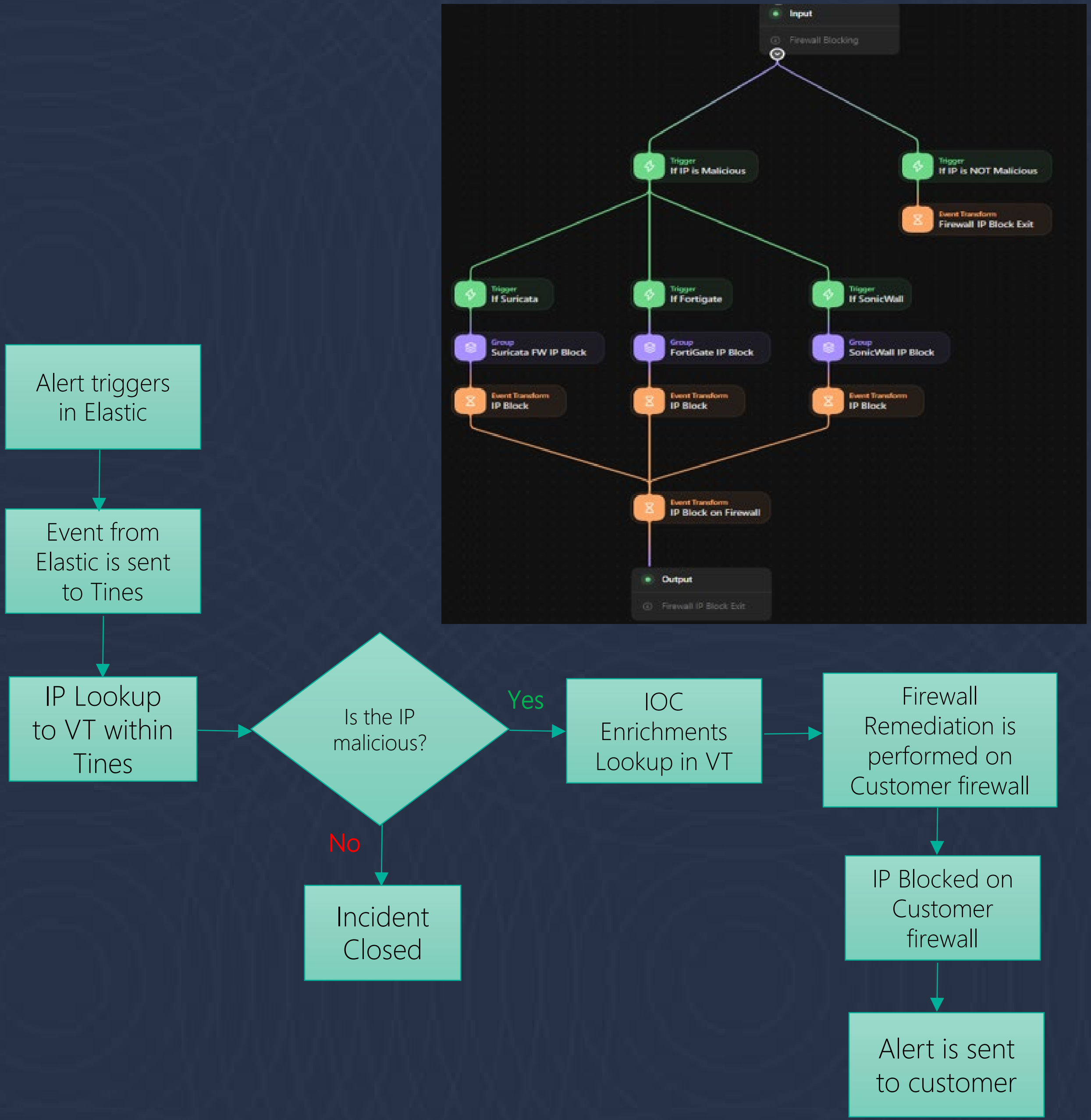
Microsoft 365
DUO
Azure
okta
amazon web services
Google Workspace

Firewall Auto Remediation

An external IP address is extracted from an event and ran through our threat intelligence feeds to determine whether it is malicious or not.

If the IP is deemed suspicious and/or malicious, it will automatically be blocked on the customers firewall using the Tines remediation story.

The SOC will notify the customer of this activity by sending an Alert to the customers distribution list.



Alert triggers in Elastic

Event from Elastic is sent to Tines

IP Lookup to VT within Tines

Is the IP malicious?

Yes

IOC Enrichments Lookup in VT

Firewall Remediation is performed on Customer firewall

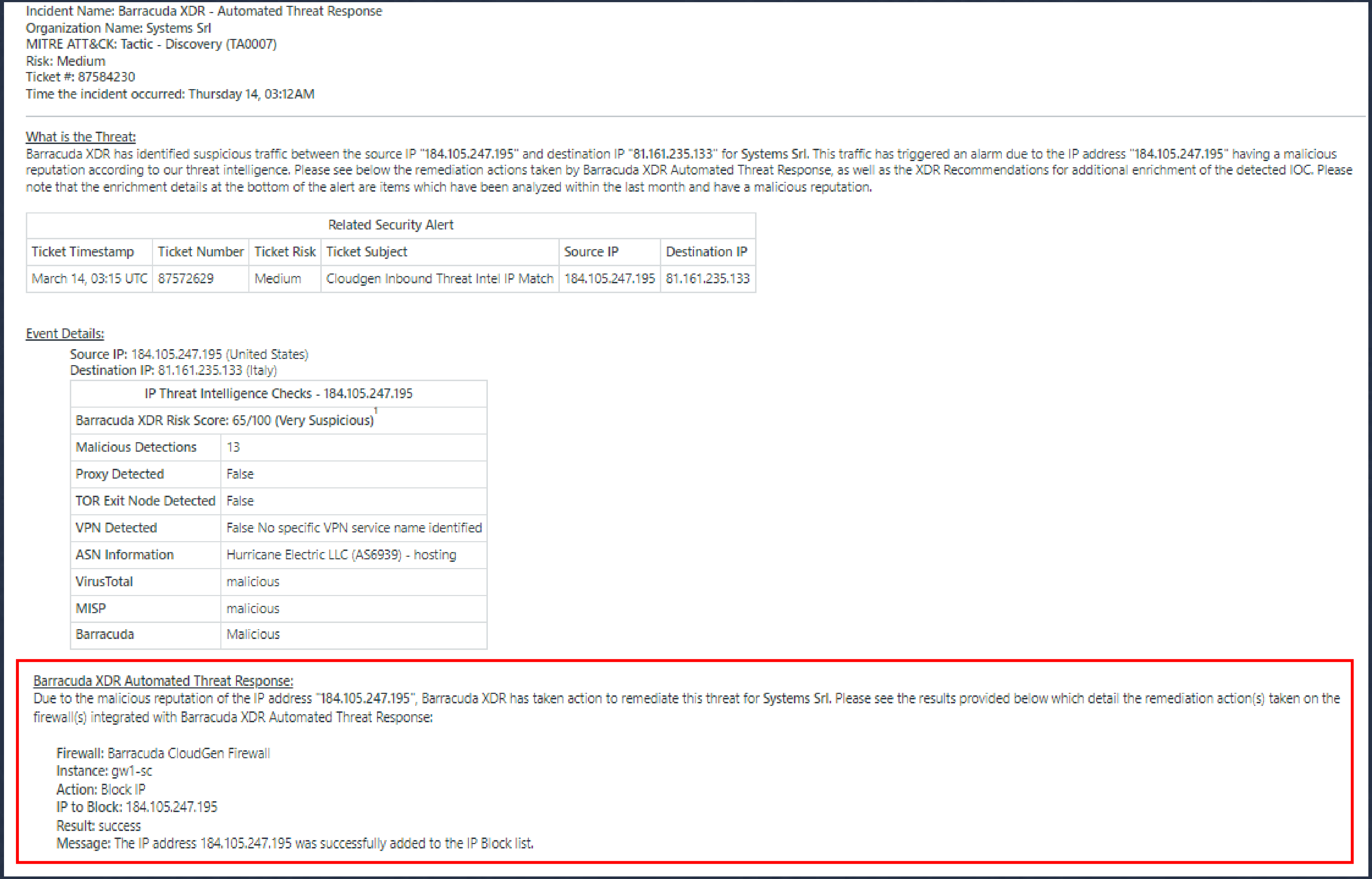
IP Blocked on Customer firewall

Alert is sent to customer

No

Incident Closed

Firewall Auto Remediation Alert



Incident Name: Barracuda XDR - Automated Threat Response
Organization Name: Systems Srl
MITRE ATT&CK: Tactic - Discovery (TA0007)
Risk: Medium
Ticket #: 87584230
Time the incident occurred: Thursday 14, 03:12AM

What is the Threat:

Barracuda XDR has identified suspicious traffic between the source IP "184.105.247.195" and destination IP "81.161.235.133" for Systems Srl. This traffic has triggered an alarm due to the IP address "184.105.247.195" having a malicious reputation according to our threat intelligence. Please see below the remediation actions taken by Barracuda XDR Automated Threat Response, as well as the XDR Recommendations for additional enrichment of the detected IOC. Please note that the enrichment details at the bottom of the alert are items which have been analyzed within the last month and have a malicious reputation.

Related Security Alert					
Ticket Timestamp	Ticket Number	Ticket Risk	Ticket Subject	Source IP	Destination IP
March 14, 03:15 UTC	87572629	Medium	Cloudgen Inbound Threat Intel IP Match	184.105.247.195	81.161.235.133

Event Details:

Source IP: 184.105.247.195 (United States)
Destination IP: 81.161.235.133 (Italy)

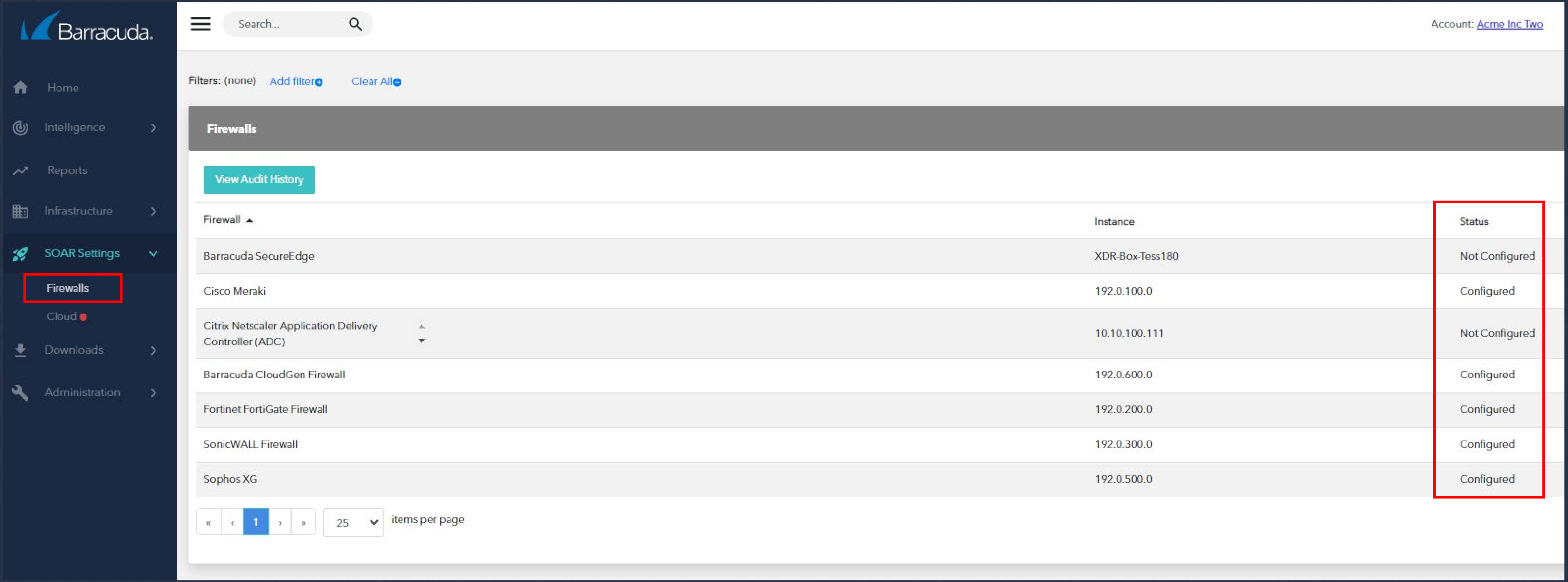
IP Threat Intelligence Checks - 184.105.247.195	
Barracuda XDR Risk Score: 65/100 (Very Suspicious)[1]	
Malicious Detections	13
Proxy Detected	False
TOR Exit Node Detected	False
VPN Detected	False No specific VPN service name identified
ASN Information	Hurricane Electric LLC (AS6939) - hosting
VirusTotal	malicious
MISP	malicious
Barracuda	Malicious

Barracuda XDR Automated Threat Response:

Due to the malicious reputation of the IP address "184.105.247.195", Barracuda XDR has taken action to remediate this threat for Systems Srl. Please see the results provided below which detail the remediation action(s) taken on the firewall(s) integrated with Barracuda XDR Automated Threat Response:

Firewall: Barracuda CloudGen Firewall
Instance: gw1-sc
Action: Block IP
IP to Block: 184.105.247.195
Result: success
Message: The IP address 184.105.247.195 was successfully added to the IP Block list.

SOAR Settings on the CSD

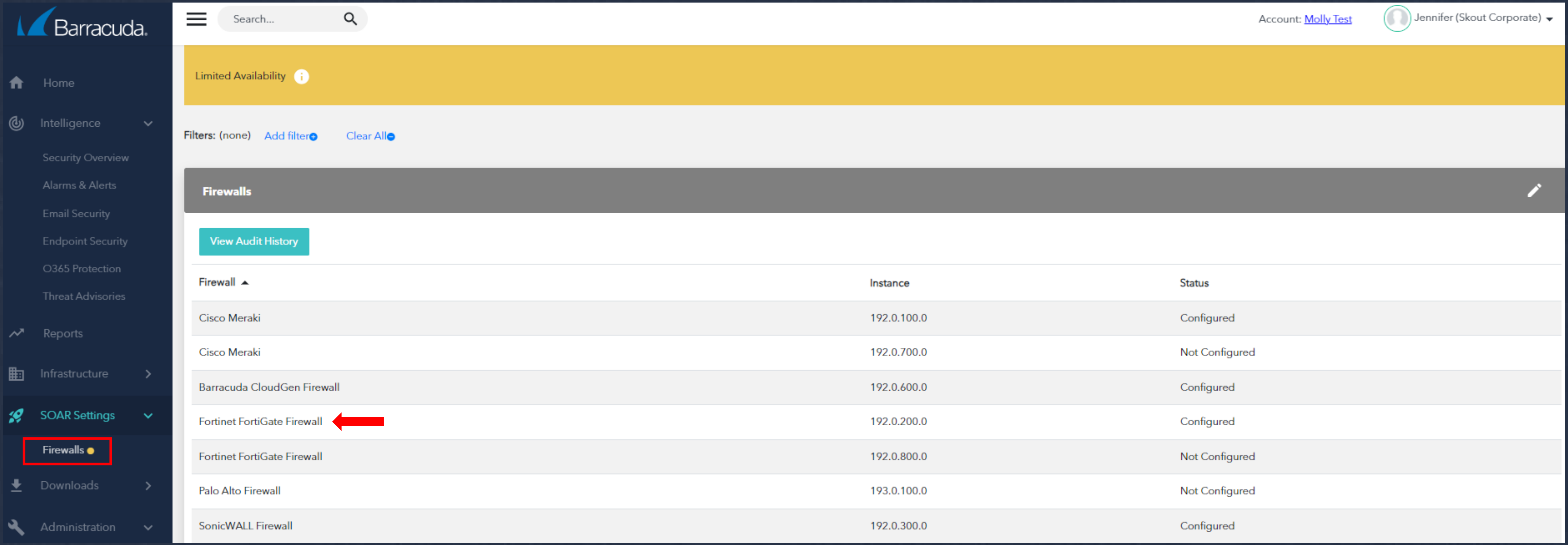


Firewalls

Firewall ▲	Instance	Status
Barracuda SecureEdge	XDR-Box-Tess180	Not Configured
Cisco Meraki	192.0.100.0	Configured
Citrix Netscaler Application Delivery Controller (ADC)	10.10.100.111	Not Configured
Barracuda CloudGen Firewall	192.0.600.0	Configured
Fortinet FortiGate Firewall	192.0.200.0	Configured
SonicWALL Firewall	192.0.300.0	Configured
Sophos XG	192.0.500.0	Configured

Customer Set Up

- All ATR data must be uploaded to the Customer Security Dashboard under the **SOAR Settings** > **Firewalls** section.
- The customer will need to select the firewall to be configured for the integration and upload the required data.
  - They can do this by clicking on the chosen firewall and filling out the firewall details page.



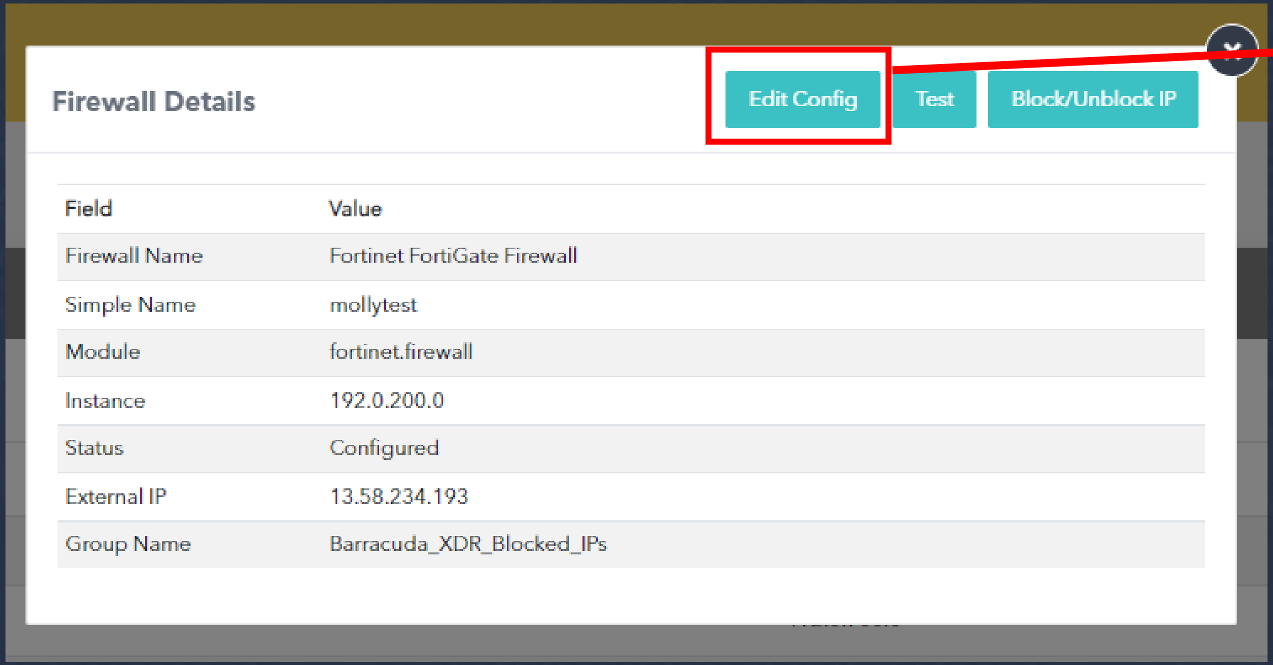
Filters: (none)

Firewalls

Firewall ▲	Instance	Status
Cisco Meraki	192.0.100.0	Configured
Cisco Meraki	192.0.700.0	Not Configured
Barracuda CloudGen Firewall	192.0.600.0	Configured
Fortinet FortiGate Firewall	192.0.200.0	Configured
Fortinet FortiGate Firewall	192.0.800.0	Not Configured
Palo Alto Firewall	193.0.100.0	Not Configured
SonicWALL Firewall	192.0.300.0	Configured

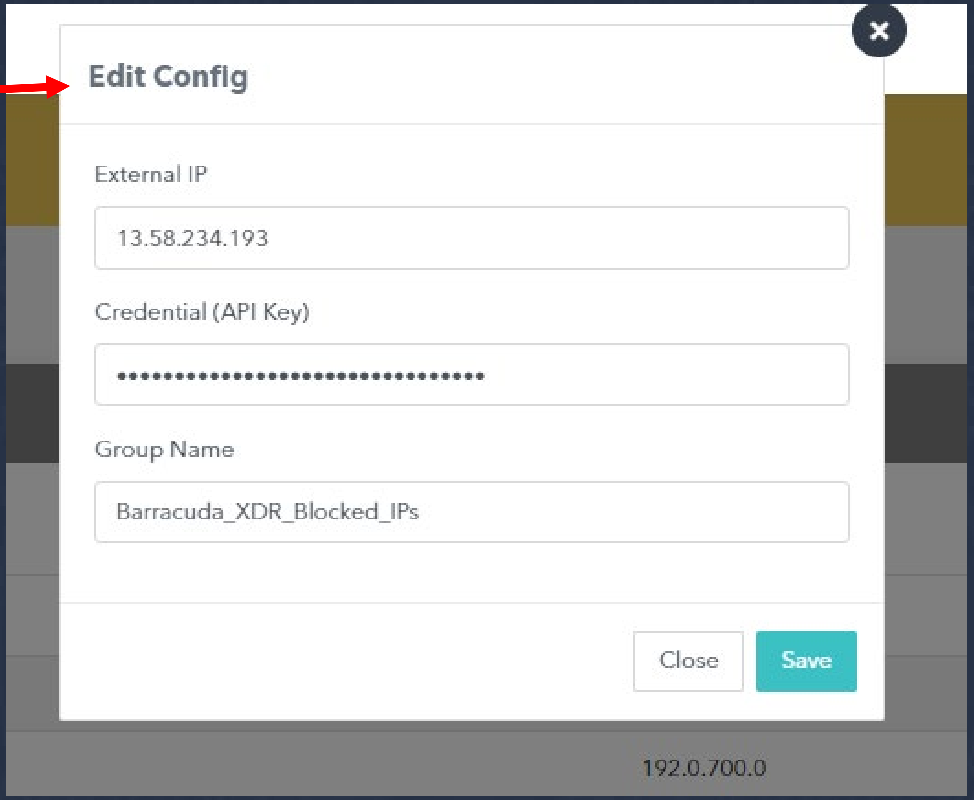
Customer Set Up

- Once the customer selects a device, they can fill out the required fields on the firewall details page by clicking **Edit Config**.
- Each firewall has different requirements when it comes to setting up API configuration.
  - All documentation will be available on Campus - https://campus.barracuda.com/product/xdr/doc/101713743/soar-settings/
- Fill in the required data and click **Save** once complete.



Firewall Details

Field	Value
Firewall Name	Fortinet FortiGate Firewall
Simple Name	mollytest
Module	fortinet.firewall
Instance	192.0.200.0
Status	Configured
External IP	13.58.234.193
Group Name	Barracuda_XDR_Blocked_IPs



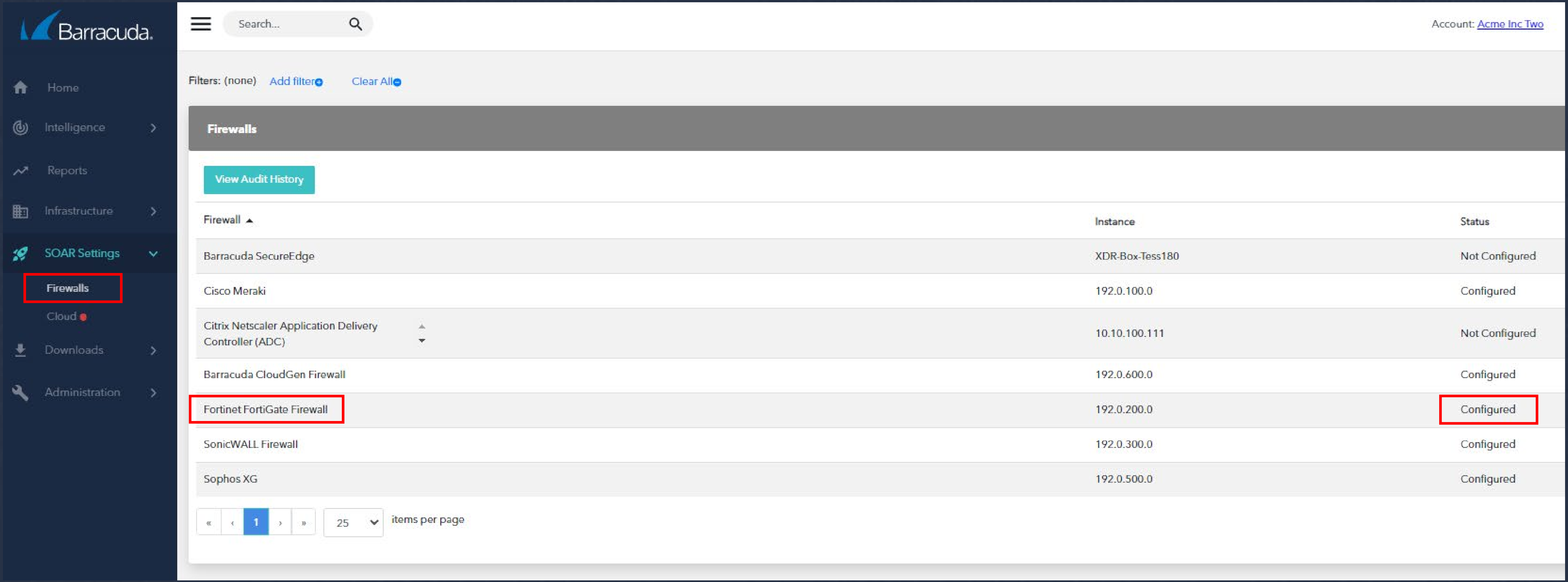
Edit Config

External IP: 13.58.234.193

Credential (API Key): ••••••••••••••••••••••••••••••••••

Group Name: Barracuda_XDR_Blocked_IPs

Customer Set Up



Account: Acme Inc Two

Filters: (none) Add filter Clear All

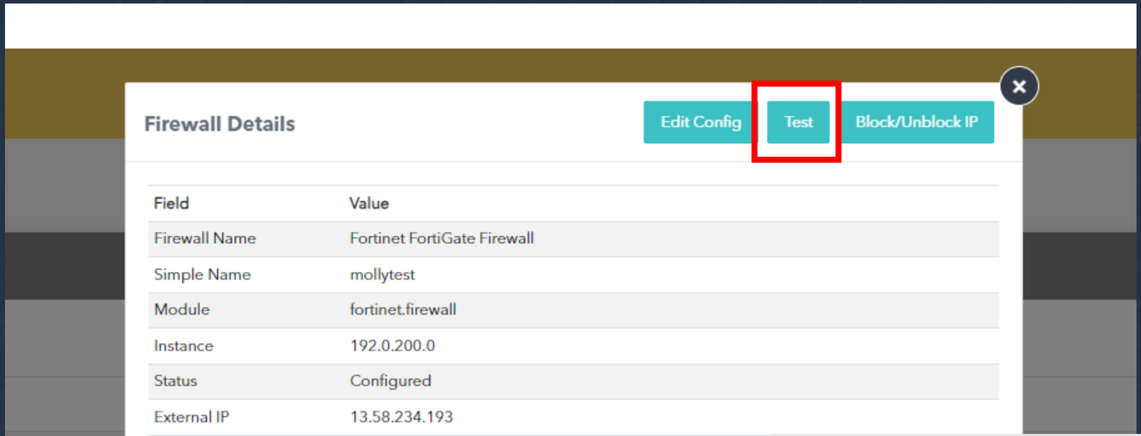
Firewalls

Firewall ▲	Instance	Status
Barracuda SecureEdge	XDR-Box-Tess180	Not Configured
Cisco Meraki	192.0.100.0	Configured
Citrix Netscaler Application Delivery Controller (ADC)	10.10.100.111	Not Configured
Barracuda CloudGen Firewall	192.0.600.0	Configured
Fortinet FortiGate Firewall	192.0.200.0	Configured
SonicWALL Firewall	192.0.300.0	Configured
Sophos XG	192.0.500.0	Configured

items per page

Customer Set Up: Testing the ATR Config

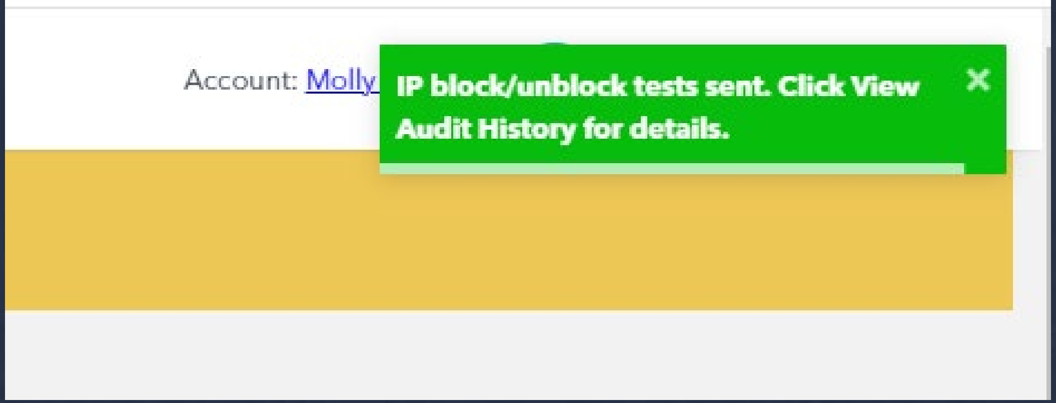
- Customers can also test the ATR integration to ensure the configuration is set up properly.



Firewall Details

Field	Value
Firewall Name	Fortinet FortiGate Firewall
Simple Name	mollytest
Module	fortinet.firewall
Instance	192.0.200.0
Status	Configured
External IP	13.58.234.193
Group Name	Barracuda_XDR_Blocked_IPs

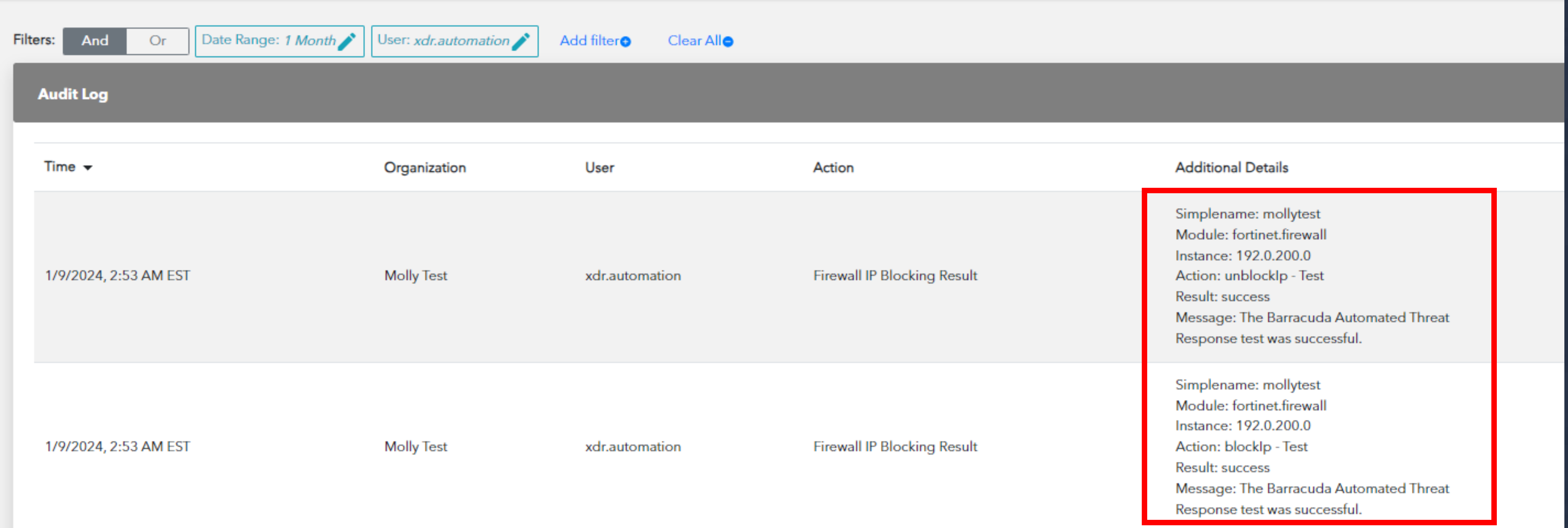
192.0.600.0
192.0.200.0
192.0.800.0



Account: Molly

IP block/unblock tests sent. Click View Audit History for details.

- The results can be found in the CSD Audit Log.

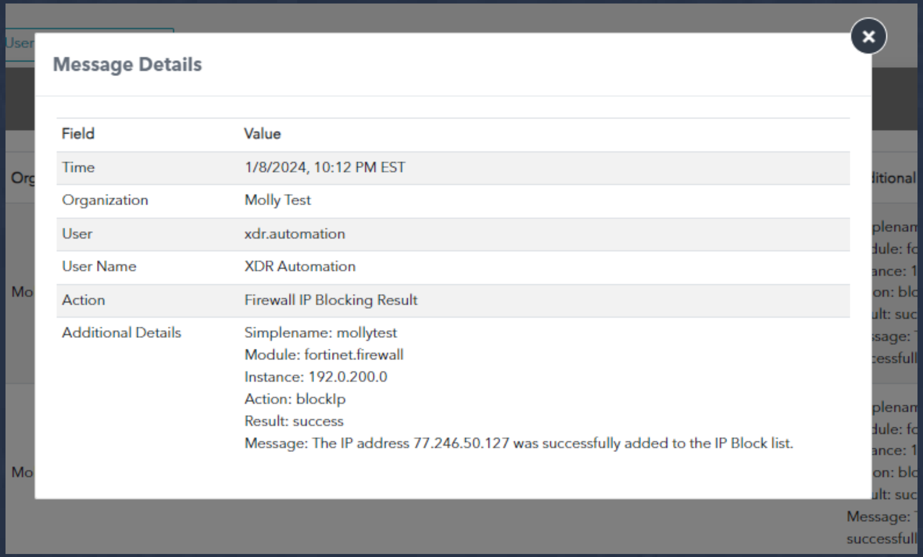


Audit Log

Time	Organization	User	Action	Additional Details
1/9/2024, 2:53 AM EST	Molly Test	xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: unblockIp - Test Result: success Message: The Barracuda Automated Threat Response test was successful.
1/9/2024, 2:53 AM EST	Molly Test	xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: blockIp - Test Result: success Message: The Barracuda Automated Threat Response test was successful.

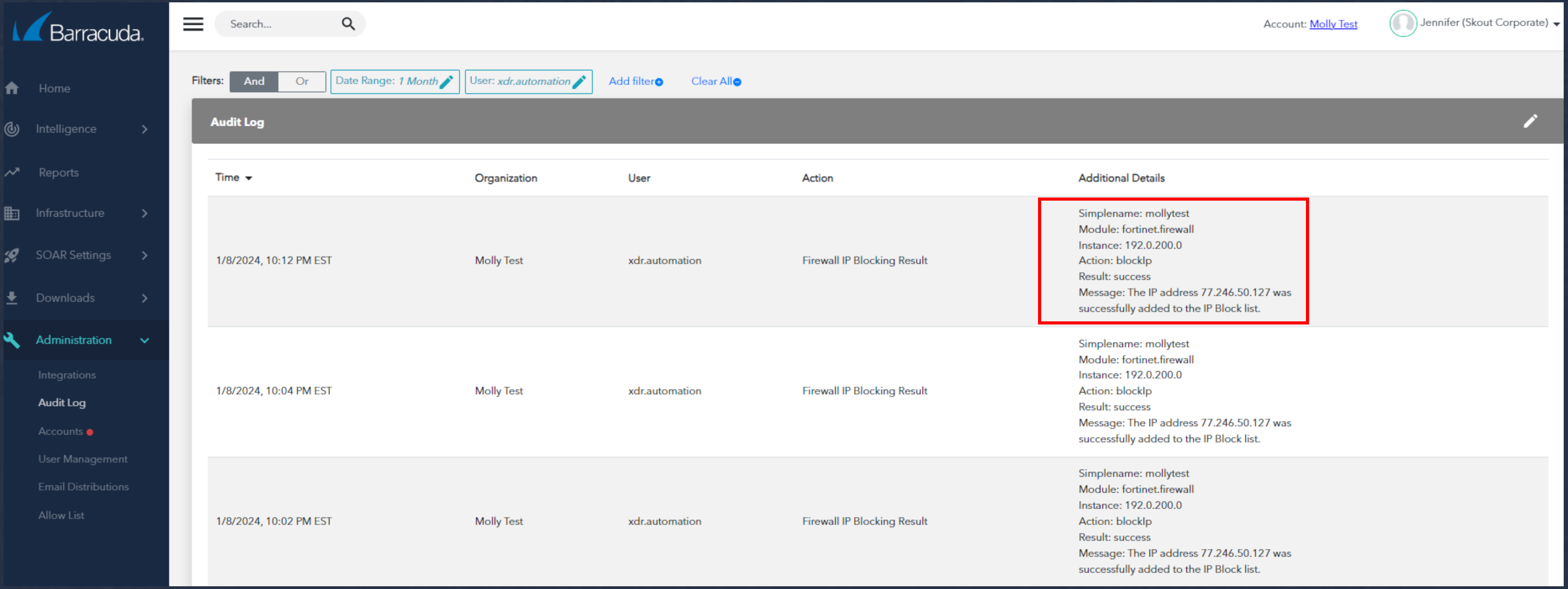
CSD Audit Log

- On the **SOAR Settings > Firewalls** page, click **View Audit History.**
- All ATR related actions are recorded in the Audit Log.
- Enhances visibility for both XDR and the customer regarding the remediation actions being implemented on the firewall.



Message Details

Field	Value
Time	1/8/2024, 10:12 PM EST
Organization	Molly Test
User	xdr.automation
User Name	XDR Automation
Action	Firewall IP Blocking Result
Additional Details	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: blockIp Result: success Message: The IP address 77.246.50.127 was successfully added to the IP Block list.



Date Range: *1 Month*

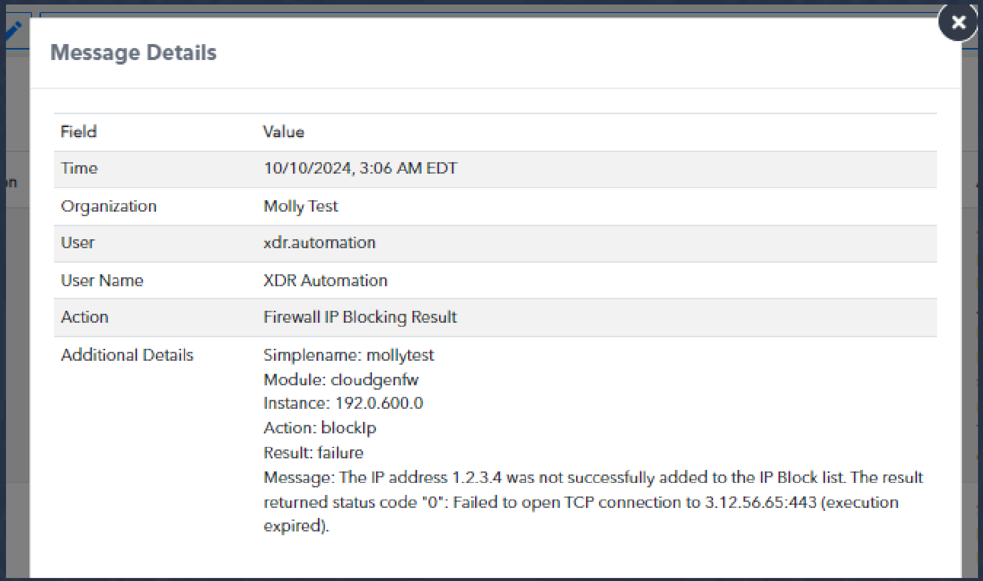
User: *xdr.automation*

Audit Log

Time	Organization	User	Action	Additional Details
1/8/2024, 10:12 PM EST	Molly Test	xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: blockIp Result: success Message: The IP address 77.246.50.127 was successfully added to the IP Block list.
1/8/2024, 10:04 PM EST	Molly Test	xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: blockIp Result: success Message: The IP address 77.246.50.127 was successfully added to the IP Block list.
1/8/2024, 10:02 PM EST	Molly Test	xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: blockIp Result: success Message: The IP address 77.246.50.127 was successfully added to the IP Block list.

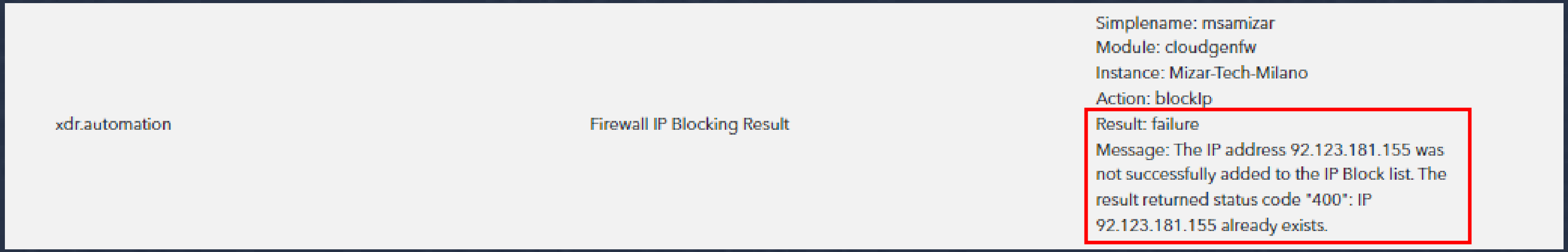
Troubleshooting ATR

- On the **SOAR Settings > Firewalls** page, click **View Audit History.**
- All ATR related actions and/or errors are recorded in the Audit Log.
- This will help determine what the issue is as to why we cannot block or unblock IPs on the firewall.
- Based on that error you can reference the troubleshooting documentation compiled for common issues we typically see arise.

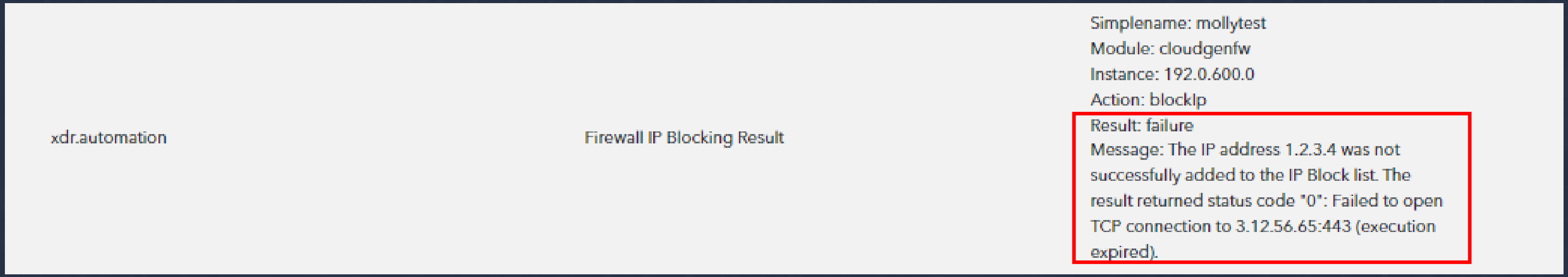


Message Details

Field	Value
Time	10/10/2024, 3:06 AM EDT
Organization	Molly Test
User	xdr.automation
User Name	XDR Automation
Action	Firewall IP Blocking Result
Additional Details	Simplename: mollytest Module: cloudgenfw Instance: 192.0.600.0 Action: blockIp Result: failure Message: The IP address 1.2.3.4 was not successfully added to the IP Block list. The result returned status code "0": Failed to open TCP connection to 3.12.56.65:443 (execution expired).



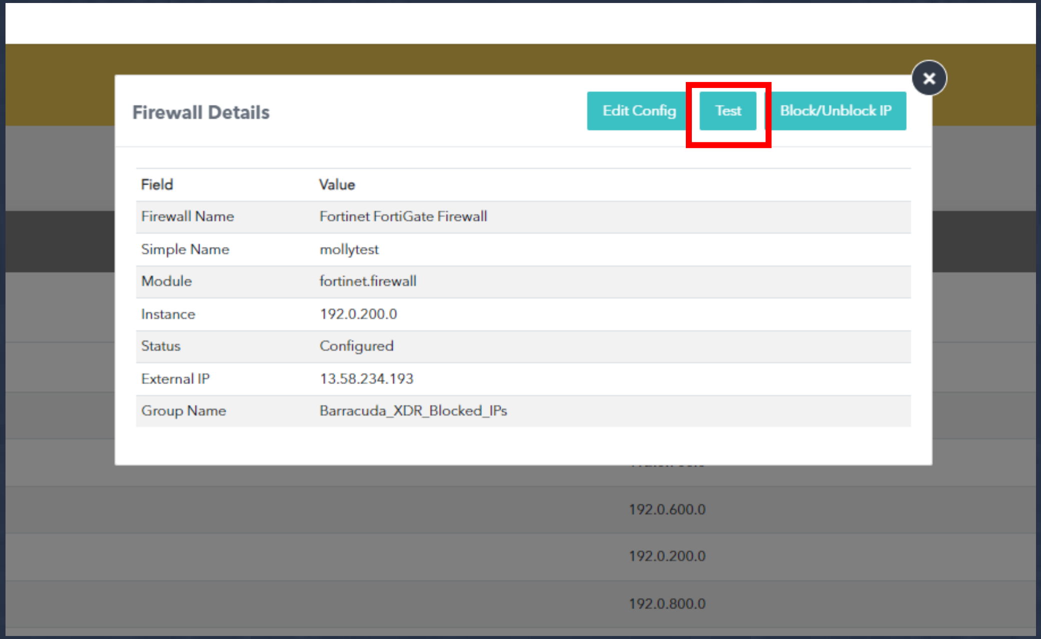
xdr.automation	Firewall IP Blocking Result	Simplename: msamizar Module: cloudgenfw Instance: Mizar-Tech-Milano Action: blockIp Result: failure Message: The IP address 92.123.181.155 was not successfully added to the IP Block list. The result returned status code "400": IP 92.123.181.155 already exists.



xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: cloudgenfw Instance: 192.0.600.0 Action: blockIp Result: failure Message: The IP address 1.2.3.4 was not successfully added to the IP Block list. The result returned status code "0": Failed to open TCP connection to 3.12.56.65:443 (execution expired).

Troubleshooting ATR

- The customer can navigate back to the **SOAR Settings > Firewalls** page and test the integration again after going through the troubleshooting steps
- They should retest the integration after troubleshooting to ensure the configuration is now set up properly.



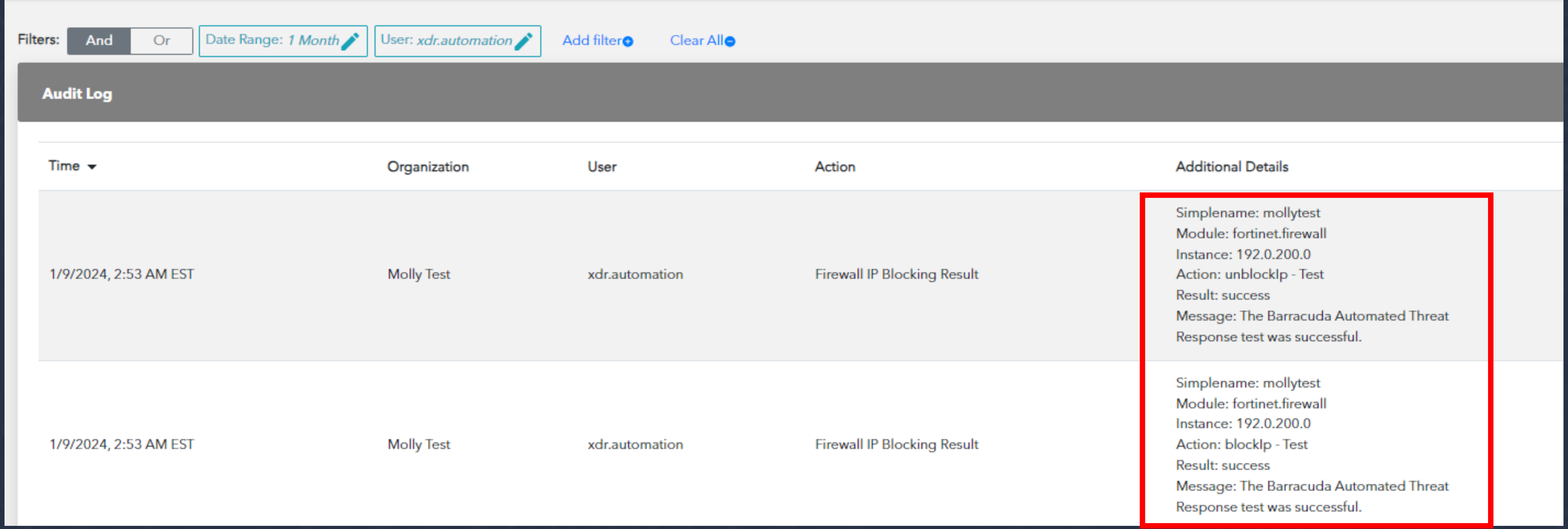
Firewall Details

Field	Value
Firewall Name	Fortinet FortiGate Firewall
Simple Name	mollytest
Module	fortinet.firewall
Instance	192.0.200.0
Status	Configured
External IP	13.58.234.193
Group Name	Barracuda_XDR_Blocked_IPs

192.0.600.0

192.0.200.0

192.0.800.0



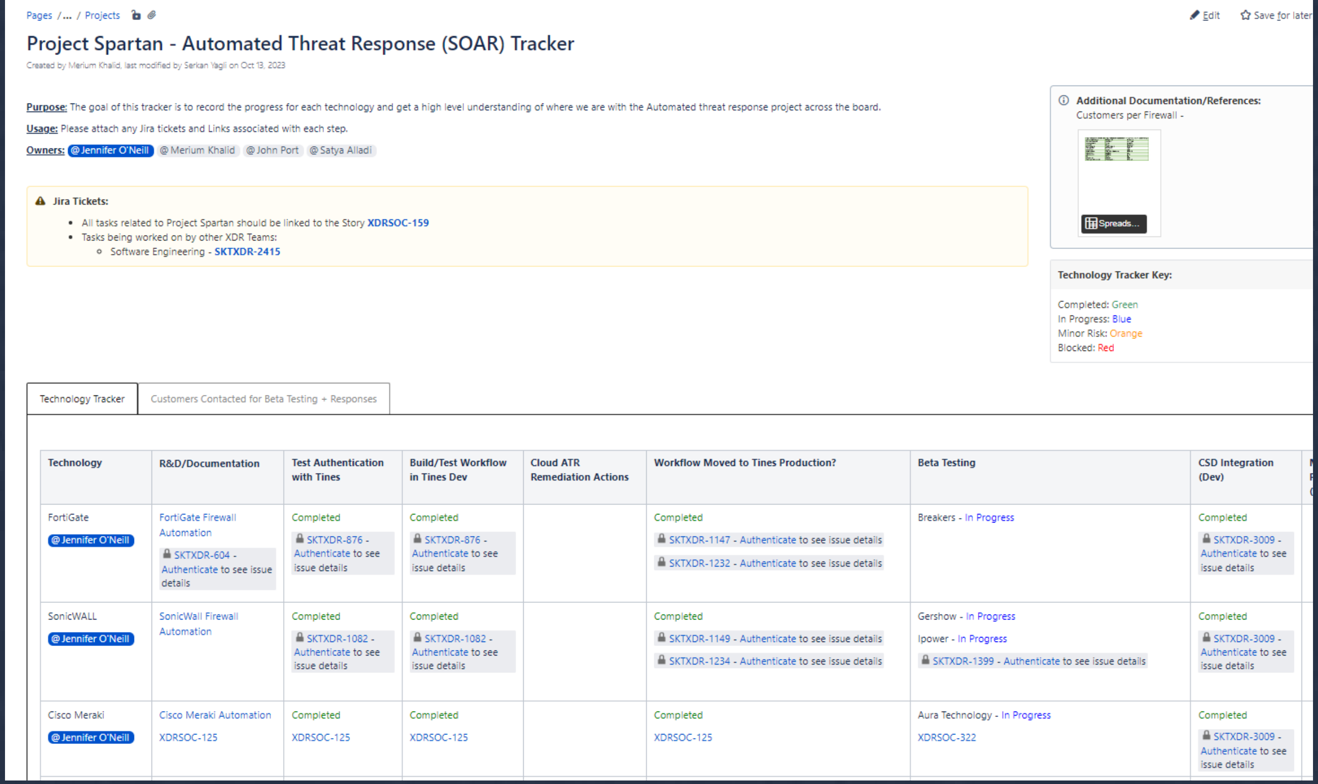
Filters: And Or Date Range: *1 Month* User: *xdr.automation* Add filter Clear All

Audit Log

Time	Organization	User	Action	Additional Details
1/9/2024, 2:53 AM EST	Molly Test	xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: unblockIp - Test Result: success Message: The Barracuda Automated Threat Response test was successful.
1/9/2024, 2:53 AM EST	Molly Test	xdr.automation	Firewall IP Blocking Result	Simplename: mollytest Module: fortinet.firewall Instance: 192.0.200.0 Action: blockIp - Test Result: success Message: The Barracuda Automated Threat Response test was successful.

Internal XDR References

- Project Spartan ATR Tracker - https://cuda.atlassian.net/wiki/spaces/SOCE/pages/280296416/Project+Spartan+-+Automated+Threat+Response+SOAR+Tracker
- Customer Facing Documentation - https://cuda.atlassian.net/wiki/spaces/SOCE/pages/280300034/ATR+Customer+Facing+Documentation
- Troubleshooting Documentation - https://cuda.atlassian.net/wiki/spaces/SOCE/pages/288133907/Troubleshooting+Topics



Project Spartan - Automated Threat Response (SOAR) Tracker

Created by Merium Khalid, last modified by Serkan Yagli on Oct 13, 2023

Purpose: The goal of this tracker is to record the progress for each technology and get a high level understanding of where we are with the Automated threat response project across the board.

Usage: Please attach any Jira tickets and Links associated with each step.

Owners: @Jennifer O'Neill @Merium Khalid @John Port @Satya Alladi

Jira Tickets:

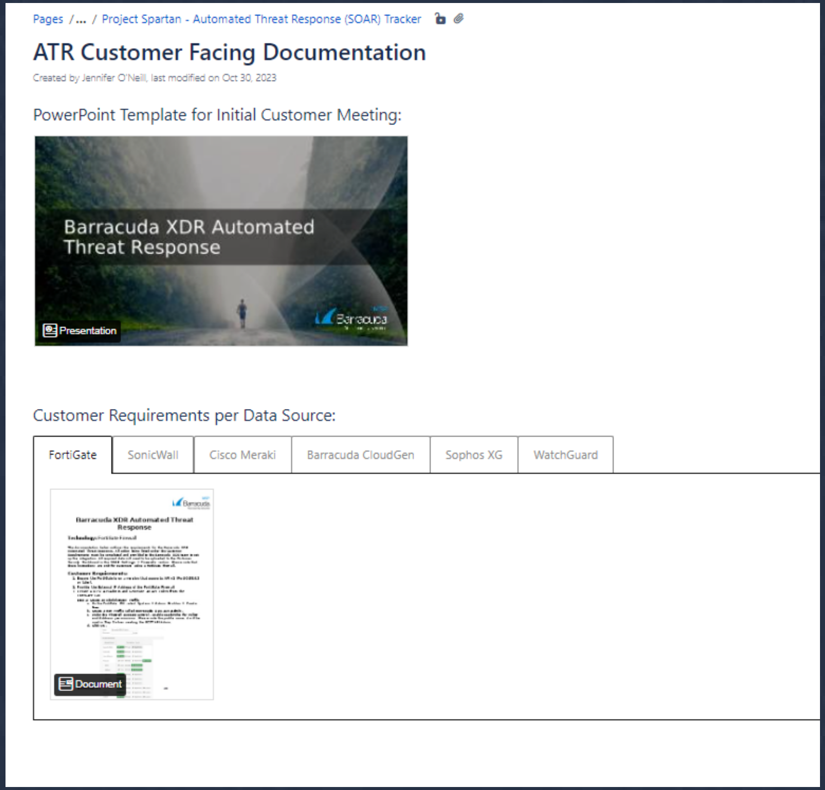
- All tasks related to Project Spartan should be linked to the Story **XDRSOC-159**
- Tasks being worked on by other XDR Teams:
  - Software Engineering - **SKTXDR-2415**

Additional Documentation/References:
Customers per Firewall -

Technology Tracker Key:

Completed: Green
In Progress: Blue
Minor Risk: Orange
Blocked: Red

Technology	R&D/Documentation	Test Authentication with Tines	Build/Test Workflow in Tines Dev	Cloud ATR Remediation Actions	Workflow Moved to Tines Production?	Beta Testing	CSD Integration (Dev)
FortiGate @Jennifer O'Neill	FortiGate Firewall Automation SKTXDR-604 - Authenticate to see issue details	Completed SKTXDR-876 - Authenticate to see issue details	Completed SKTXDR-876 - Authenticate to see issue details		Completed SKTXDR-1147 - Authenticate to see issue details SKTXDR-1232 - Authenticate to see issue details	Breakers - In Progress	Completed SKTXDR-3009 - Authenticate to see issue details
SonicWALL @Jennifer O'Neill	SonicWall Firewall Automation	Completed SKTXDR-1082 - Authenticate to see issue details	Completed SKTXDR-1082 - Authenticate to see issue details		Completed SKTXDR-1149 - Authenticate to see issue details SKTXDR-1234 - Authenticate to see issue details	Gershow - In Progress Ipower - In Progress SKTXDR-1399 - Authenticate to see issue details	Completed SKTXDR-3009 - Authenticate to see issue details
Cisco Meraki @Jennifer O'Neill	Cisco Meraki Automation XDRSOC-125	Completed XDRSOC-125	Completed XDRSOC-125		Completed XDRSOC-125	Aura Technology - In Progress XDRSOC-322	Completed SKTXDR-3009 - Authenticate to see issue details



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ATR Customer Facing Documentation

Created by Jennifer O'Neill, last modified on Oct 30, 2023

PowerPoint Template for Initial Customer Meeting:

Barracuda XDR Automated Threat Response
Barracuda
Presentation

Customer Requirements per Data Source:

FortiGate
SonicWall
Cisco Meraki
Barracuda CloudGen
Sophos XG
WatchGuard
Barracuda
Barracuda XDR Automated Threat Response
Document

Thank You

MSP Barracuda

Your journey, secured.