



# NetBrain *Next-Gen* Overview

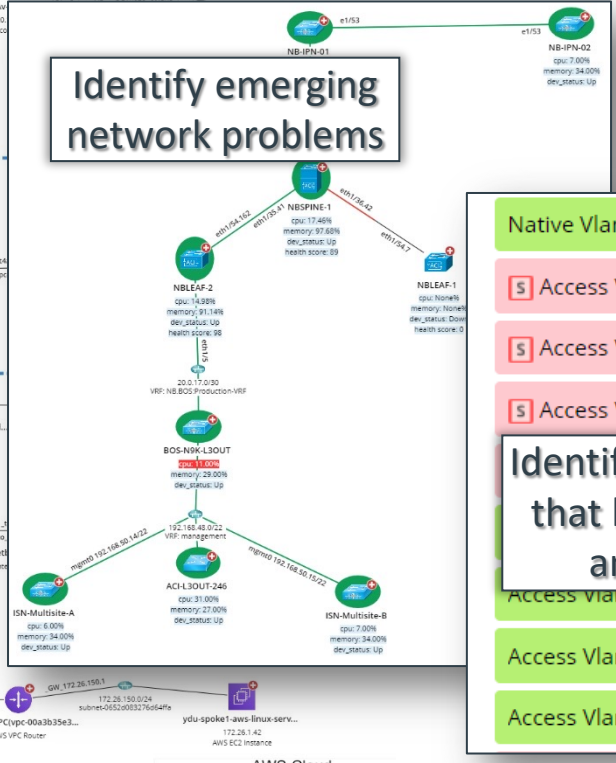
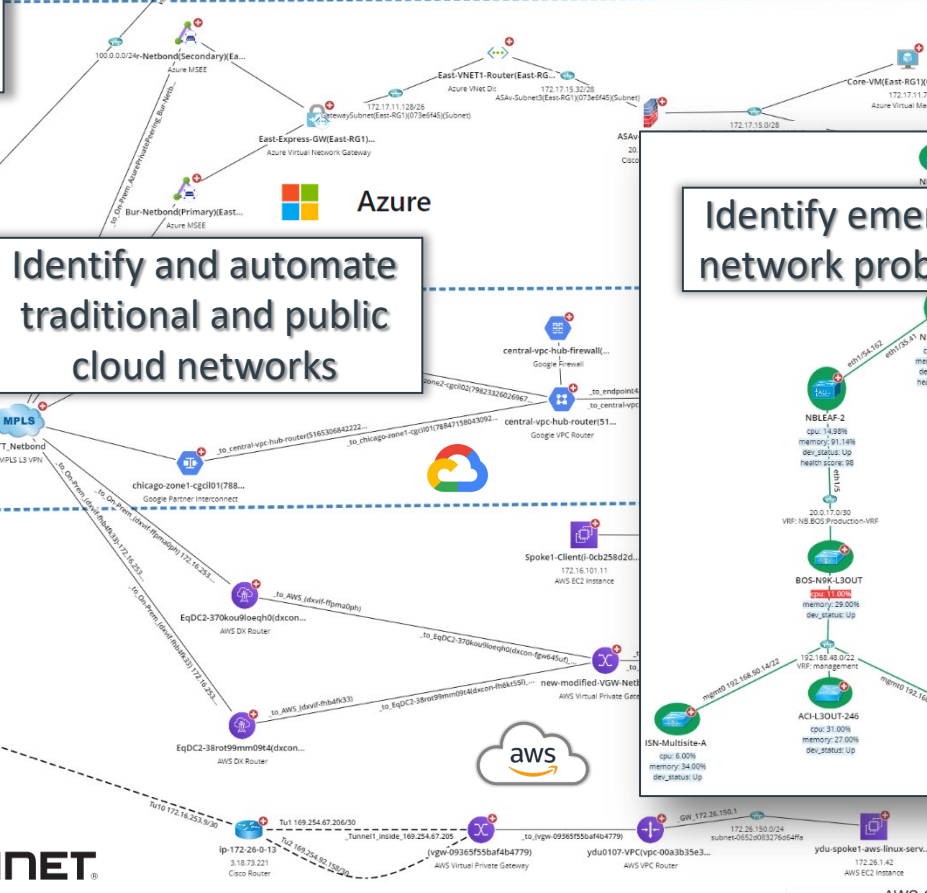
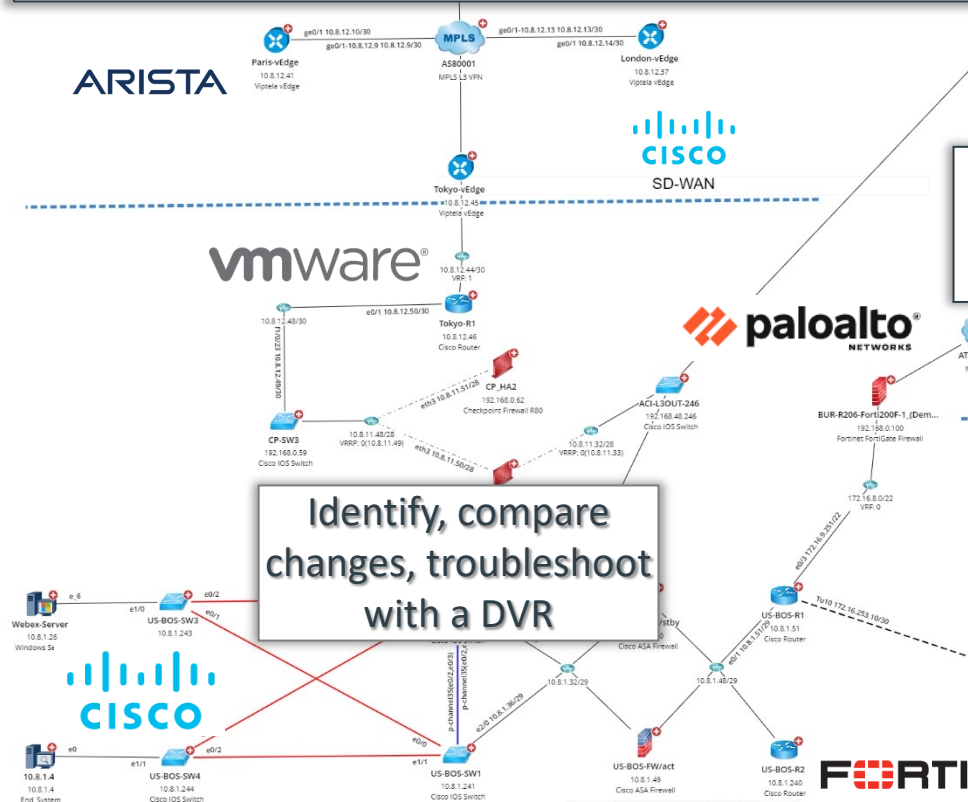
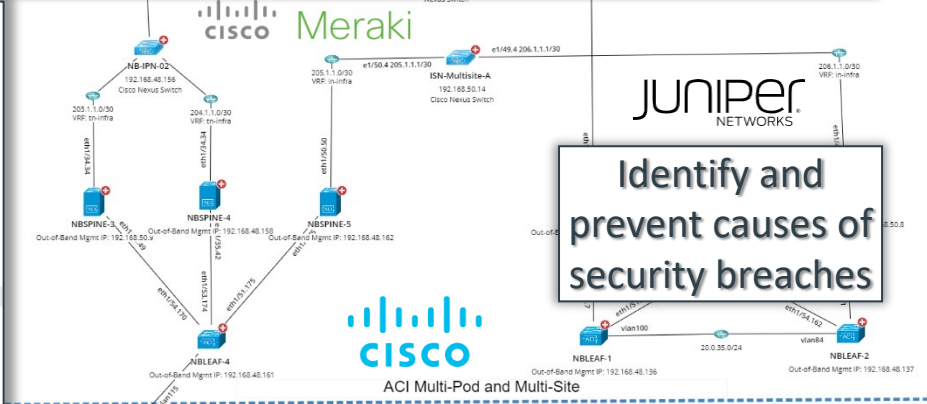
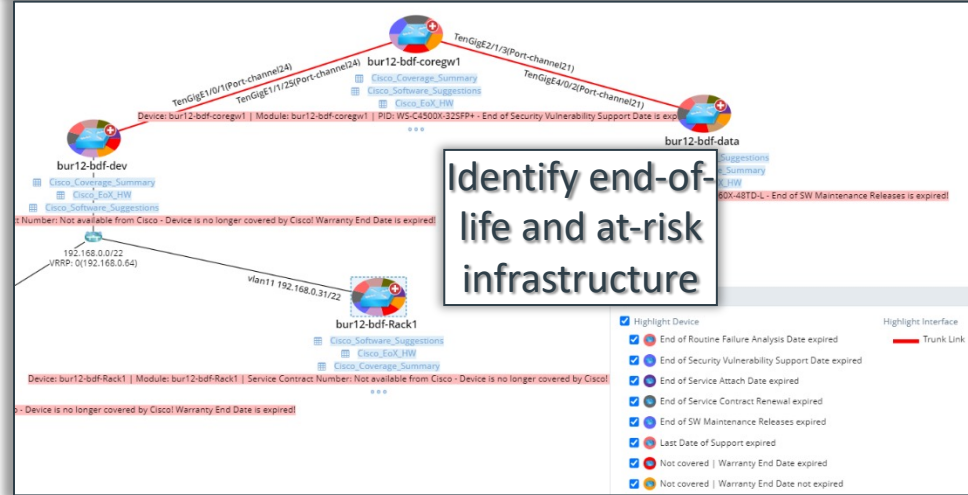
# Common Network Pain Points

1. “What do we HAVE on the network?”
2. “How is our network CONFIGURED?”
3. “What level of HEALTH are we operating at?”
4. “How are CHANGES to the infrastructure impacting us?”
5. “How can we SPEED up manual network troubleshooting?”
6. “How can we STOP manually troubleshooting IT Tickets over and over?”
7. “How can we prevent configuration or unknow emerging problems which lead to outages and breaches?”

# Customer POC Example (1,000+ hours saved/yr.)

Customer Problem	Why It's Painful	Manual Process	NetBrain Process
We receive many VPN tickets, primarily users having performance issues. We need to check asymmetric load balancing on VPN circuits regularly.	Users are down	Manual device check one-by-one	Schedule NetBrain to check daily and report any at-risk devices or configurations proactively
We need to verify config consistency in SNMP ACL across devices to ensure devices can use traps towards a centralized SNMP server.	IT availability, performance, and security monitoring will have blind spots	Manual device check one-by-one	With a few clicks NetBrain will check the entire network - we can also automate this to check nightly
We need to verify consistency in NTP configuration across Cisco IOS devices.	Logging, troubleshooting, and security are degraded if network devices aren't time-synchronized	Manual device check one-by-one	Schedule NetBrain to check this on an automated basis

- Prevent 50% of outages through automated prevention checks
- Automate IT ticket troubleshooting, reduce resolution time 80%
- Prevent breaches and compliance failures



Native Vlan configured correc... Details

Access Vlan misconfigured Details

Access Vlan misconfigured Details

Access Vlan misconfigured Details

**Identify configurations that lead to outages and breaches**

Access vlan configured corre... Details

Access Vlan configured corre... Details

Access Vlan configured corre... Details



# Customer Examples

- NetBrain saved us 20,000 hours in our first year by using our IT tickets as a roadmap for what to automate and PREVENT
- We were failing compliance checks and now we stay compliant through automated inspection
- We reduced the company's overall IT Tickets by 50% by having NetBrain check for the conditions that lead to outages and performance problems
- We reduced avg ticket closure time by 83% for 2,500 tickets/wk.

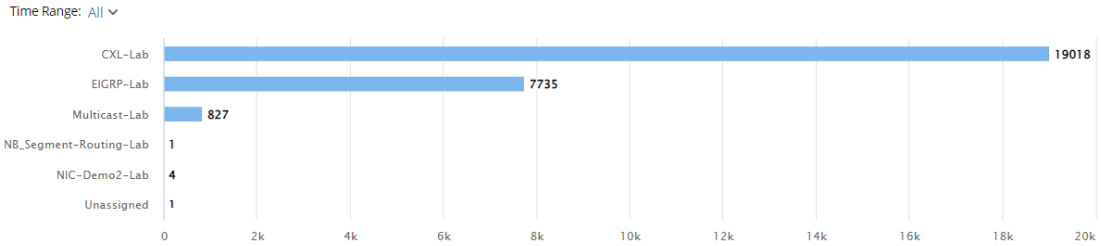
# Continuous Network Assessment Dashboards

Configuration Drift Detection Summary 6/2/2023, 6:04:05 PM [View Report](#)

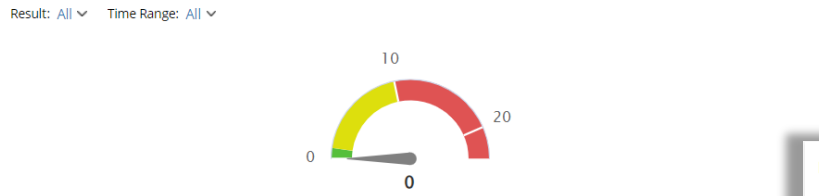
196 Verification Rules ...

24833 Times for Detection

Config Drift Alert Summary by Site in Last 30 days 6/2/2023, 6:04:33 PM [View Report](#)



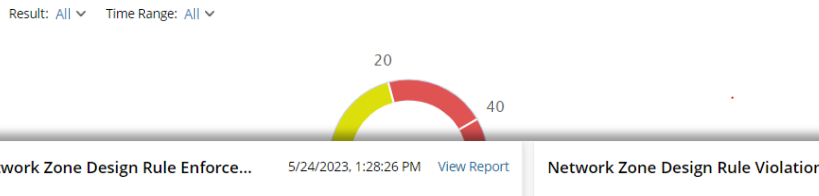
L3 Device BGP Config Drift in Last 30 Days 6/2/2023, 6:03:50 PM [View Report](#)



The Latest 5 Drift Detection Runs

Intent Name	Execution Time	Device Name	Device Alert Status	Device Success Sta	Device Status Code	Alert Detection
BGP Config Dri...	6/2/2023, 5:26:5...	CA-YVR-R1	0	1	CA-YVR-R1 's BG...	0
BGP Config Dri...	6/2/2023, 5:26:5...	CA-YVR-R2	0	1	CA-YVR-R2 's BG...	0

L3 Device OSPF Config Drift in Last 30 Days 6/2/2023, 6:03:48 PM [View Report](#)

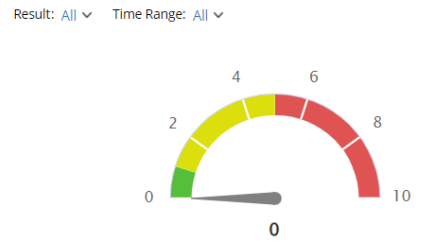


Network Zone Design Rule Enforcement 5/24/2023, 1:28:26 PM [View Report](#)

7 # Zone Design Ru...

20 # Enforcement R...

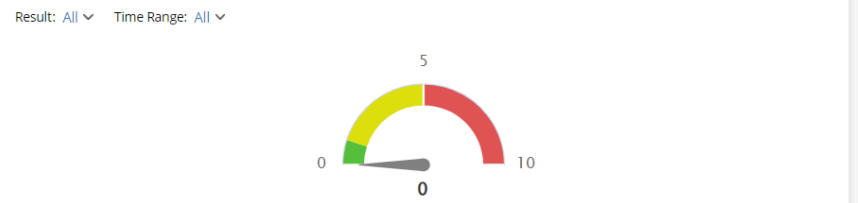
Network Zone Design Rule Violations in Last 30 Days 5/24/2023, 1:28:26 PM [View Report](#)



The Latest 5 Drift Detection Runs

Intent Name	Execution Time	Intent Alert St.	Intent Success	Intent Status C	Alert Detector
NYC Securi...	5/20/2023, ...	0	0	Access-Inte...	0

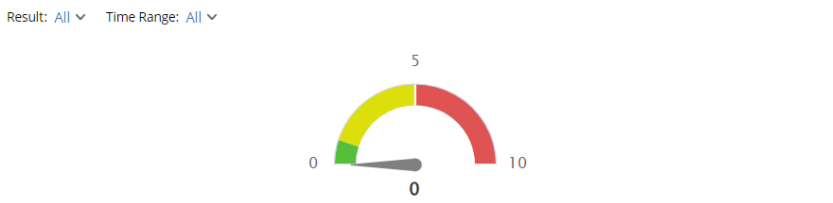
Network Zone Allow Design Rule Violations in Last 30 Days 5/24/2023, 1:28:25 PM [View Report](#)



The Latest 5 Detection Runs

Intent Name	Execution Time	Intent Alert Status	CoC	Intent Success Status	Intent Status Code	Sur	Alert Detection
Check DMZ Zone ...	5/22/2023, 12:13:52...	0	1	Validation Allow Ne...	0		
Check Production ...	5/22/2023, 12:13:47...	0	1	Validation Allow Ne...	0		

Network Zone Disallow Design Rule Violations in Last 30 Days 5/24/2023, 1:28:27 PM [View Report](#)



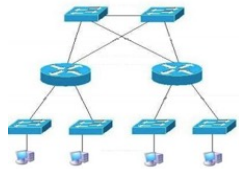
The Latest 5 Detection Runs

Intent Name	Execution Time	Intent Alert Status	CoC	Intent Success Status	Intent Status Code	Sur	Alert Detection
Check Production ...	5/20/2023, 11:00:35...	0	1	Validation Disallow ...	0		
Check Enterprise ...	5/20/2023, 11:00:25...	0	1	Validation Disallow ...	0		

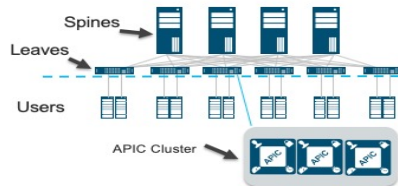
# Continuous Assessment + Day-2 Network Automation

## ANY HYBRID NETWORK

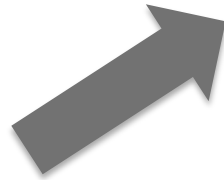
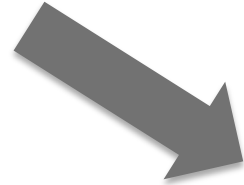
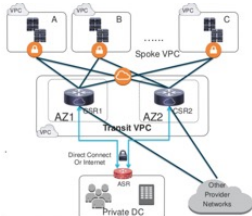
### Multivendor Network + Security



### SDN, SD-WAN, SD-Access



### AWS, Azure, GCP



**net3brain**  
Automation  
Created  
Digital Twin

## ANY PROBLEM

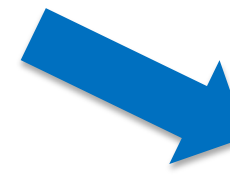
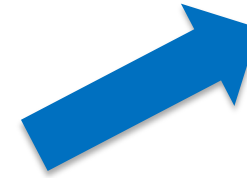
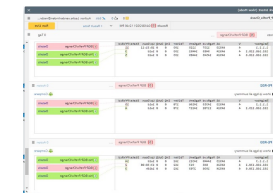
### Automate Mapping + Health



### Automate Troubleshooting



### Automate Prevention



# Leveraging Other Tools With NetBrain

Our Existing Tools	Integration Value
SolarWinds LogicMonitor	<ul style="list-style-type: none"><li>➤ NetBrain will provide accurate and dynamic maps</li><li>➤ Through integration, SolarWinds data can be visualized in NetBrain</li></ul>
ITSM service desk	<ul style="list-style-type: none"><li>➤ Ticket system integration, to automatically generate NetBrain map upon ticket creation</li><li>➤ Integration also possible to retrieve historical ticket data and display on map</li></ul>
Splunk	<ul style="list-style-type: none"><li>➤ Potential runbook integration to automate investigative tasks and speed up analysis</li></ul>
Thousand Eyes	<ul style="list-style-type: none"><li>➤ NetBrain can complement these systems and potentially integrate to provide comprehensive Network visibility/display data on a NetBrain map</li><li>➤ Utilize Thousand Eyes network latency calculations to display on NetBrain map</li></ul>
F5 BigIQ, NetScaler, Riverbed	<ul style="list-style-type: none"><li>➤ NB can complement these systems and integrate to provide comprehensive Network visibility/display data on a NB map</li></ul>
Nectar, Cisco StealthWatch, Truesight Network Automation, Cisco Prime	<ul style="list-style-type: none"><li>➤ NB can complement these systems and integrate to provide comprehensive Network visibility/display data on a NB map</li></ul>

## Gaps Filled By NetBrain:

- Real Time Visualization
- Real Time Path from Source to Destination
- Runbooks – Process Standardization and Optimization
- Device Change Tracking – Baseline Deviation
- Robot-like troubleshooting automation

*This is a real customer's anonymized comments*

# Common Customer Questions & Priorities

1. “We know outages and breaches often come from misconfigurations and config drift - how can we **INSPECT** our network without having team members manually checking device-by-device which they never have time to do?”
2. “We constantly have IT tickets requiring network checks and troubleshooting, if we know we’re going to run into issues how can **AUTOMATE** the diagnosis process?”
3. “We have a large multi-vendor network with many devices, sites, and the cloud. Every time we need to troubleshoot something it involves slow manual discovery, and logging into different devices one-by-one, there must be a **FASTER** approach.”