



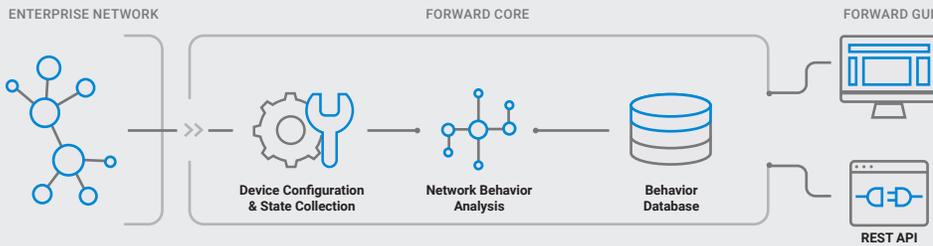
Network Operations. *Simplified.*

ACHIEVE PROACTIVE NETWORK ASSURANCE

Forward Networks industry-leading verification platform, Forward Enterprise, analyzes and verifies network designs to proactively eliminate configuration errors and policy violations. The platform can compare the intent of the network designers to actual end-to-end behavior in order to expose any inconsistencies in minutes. Network IT teams can now troubleshoot rapidly and eliminate problems prior to a security breach or network outage.

Forward Enterprise shifts the focus from a reactive approach to troubleshooting to a proactive approach of verifying network designs and behavior ahead of deployments. Get away from tedious, manual device-specific processes, to automated, end-to-end verification in minutes. Other key benefits include the ability to certify that proposed changes are compliant with existing policies quickly before going live, and increasing the overall responsiveness of the IT team to change requests and network updates.

FORWARD ENTERPRISE ARCHITECTURE



Forward Enterprise collects device configuration data and state information from every network device, including switches, routers, load balancers and firewalls. Forward Enterprise can then emulate the behavior of the entire network, end-to-end, to report on potential vulnerabilities, policy violations or risk exposure.

KEY FEATURES AND CAPABILITIES

FORWARD SEARCH

A POWERFUL SEARCH ENGINE FOR YOUR NETWORK
Fast, easy-to-use search over all possible network behaviors with an always up-to-date mirror of your network design and documentation.

FORWARD VERIFY

IS THE NETWORK DOING WHAT IT SHOULD?
Continuously validate application connectivity, security and configuration requirements amidst rapid changes and updates.

FORWARD PREDICT

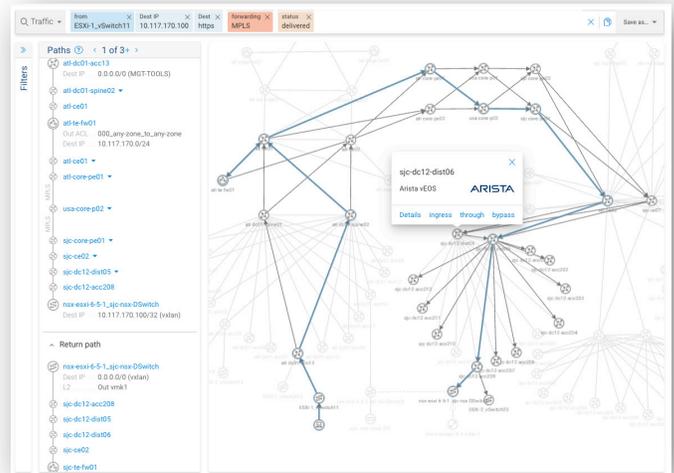
HOW WILL A CHANGE AFFECT MY NETWORK?
Determine how changes in ACL rules and NAT policies will affect network behavior and policies.

NETWORK QUERY ENGINE

QUERY YOUR NETWORK LIKE A DATABASE
Quickly write customized network checks to scan your network configurations for issues.

BEHAVIOR DIFFS

WHAT HAS CHANGED?
Validate all the changes in design and behavior between any two points in time to accelerate problem isolation and compliance requests.



DEPLOYMENT OPTIONS

Forward Enterprise can be deployed on-premises or as a SaaS solution in the Forward cloud. Network requirements: SSH must be configured and working on the network devices from which the Forward Collector will collect data. The OS instance on which the Forward Collector is installed must have IP and SSH port reachability to the network devices, either directly, or via a jump server.

ON-PREMISES DEPLOYMENT REQUIREMENTS:

Forward Enterprise is deployed as a Virtual Machine (VM-OVA format) for KVM and ESXi environments. The deployment requires the following resources:

- Cores: 16
- RAM: 128 GB of reserved memory. Performance may improve with more memory availability, but only when individual snapshots are large.
- Disk: 250 GB of disk. The amount of disk consumed will depend on the number of historical snapshots to be stored, as well as the size of each one.

SAAS DEPLOYMENT REQUIREMENTS:

A machine (virtual or physical) with at least two dedicated cores and 4GB of RAM.

- Supported Operating Systems: Ubuntu Linux (14.04 and 16.04), Apple OS X (10.12), and Windows 7 (or later versions).
- The machine must be able to access the <https://fwd.app> web page via HTTPS.
- The user must have admin privileges on the machine.
- The latest versions of Chrome or Firefox are required to access the Forward Enterprise UI.

SUPPORTED VENDORS AND DEVICES

Forward Enterprise supports over 456 device types and more than 1479 OS versions, including:



Cloud support (client virtual devices hosted in cloud platforms):



Coming late 2020

Please contact us at info@forwardnetworks.com for more details about supported devices and vendors.

ABOUT FORWARD NETWORKS

Forward Networks' mission is to de-risk and accelerate network operations, by increasing efficiency, reducing outages and verifying network intent. Built on a series of breakthrough algorithms, the Forward Platform provides enhanced network visibility, policy verification and change modeling for legacy, SDN or hybrid environments.

Forward Networks is headquartered in Palo Alto, California, and funded by top-tier investors, including Andreessen Horowitz, DFJ, A.Capital, SV Angel, and several luminaries in the networking and systems space.

