

Forward Predict

Know before you act. Verify network changes at design time, before touching production.

Overview

Network teams have never had a test environment that matches production. Forward Predict is that environment. Built on Forward Enterprise, it runs routing, ACL, NAT, and firewall changes against a mathematically accurate network digital twin of your multi-vendor, hybrid network, before a single command touches a production device.

Know before you act.

Security, connectivity, and compliance risks are identified and addressed at design time, with no maintenance window.

The Outcome

Change windows stop being the test. CAB approvals move from judgment calls to decisions backed by validated evidence. With risks known before production network changes are made, teams move fast, and delivery cycles compress from months to days.

Forward Predict Use Cases

- **Pre-deployment change verification:** Validate routing (BGP, OSPF, Static), firewall, ACL, NAT, and segmentation changes in minutes against a mathematically accurate, production-equivalent network digital twin, before deployment.
- **Cloud and hybrid path verification:** Validate end-to-end paths across AWS, Azure, GCP, IBM Cloud, and on-prem networks before workloads go live.
- **Accelerated CAB approval:** Compress change reviews from months to days, with validated evidence behind every approval.
- **Autonomous networking:** Validate AI-proposed changes before they execute, so agents can iterate safely toward verified outcomes.

Capabilities

Validate change

CLI edits, config replacements, firewall rules, and BGP advertisements, verified before production.

Identify risks

Security, connectivity, and compliance risks surfaced end-to-end, at design time, not after deployment.

Build evidence

Every CAB approval is backed by validated, versioned evidence, with full audit trail of what was tested, when.

Move fast, break less.

Catch outages, misconfigurations, unintended exposures, and policy violations at design time, not in production.

Why it matters

01 See risk before it happens

Forward Predict catches security, connectivity, and compliance risks at design time. Self-inflicted incidents drop because errors surface before they reach production.

03 Skip the physical lab

Physical labs never match production. The Forward Enterprise digital twin does. NetOps, SecOps, and CloudOps work from one validated truth.

02 Accelerate design to delivery

Forward Predict compresses weeks of manual review into days. Only the blast radius of a change is recomputed, so results stay interactive and first-attempt success rates climb.

04 Unlock autonomous networking

Forward Predict validates AI-proposed changes before they run. Agents iterate at machine speed. Production sees only what is verified.

Know the future of your network

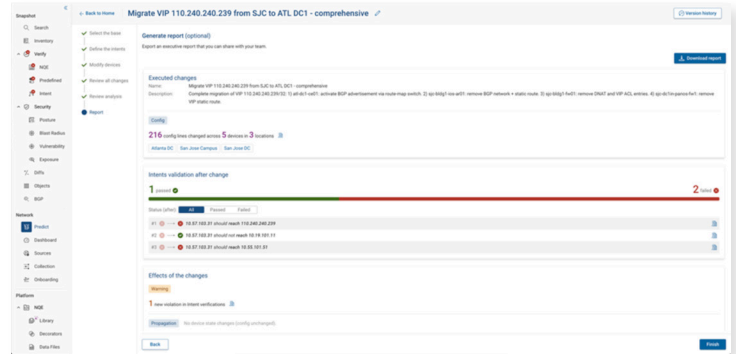
Forward Predict shows the effects of a proposed change across the network before it reaches production.

Intent Validation: Network behavior tested against the outcomes you require. Passes and failures, check by check.

Regression Testing: Evaluate predicted outcomes against a comprehensive list of regression tests. Surface unexpected side effects, outage risks, exposure risks, and compliance violations.

Effect Analysis: Security, connectivity, and compliance impacts surfaced across the entire network.

What used to take months of planning is reduced to days.



In Practice

NetOps

Deploy verified changes faster

Every BGP, OSPF, and ACL update runs through Forward Predict before CAB review. CAB reviews shrink from months of peer checks to days of model execution, and multi-hour cutovers become predictable deployments.

CloudOps

Take hybrid workloads live faster

New paths across AWS, Azure, GCP, IBM Cloud, and on-prem networks are validated end-to-end before deployment. Connectivity issues that previously stalled cloud migrations and application deployments are resolved before they hit the production network.

SecOps

Verify every firewall change end-to-end

Security rules and policy updates are tested for unintended access across the entire network path, not at a single device. Misconfigurations that would create exposure are caught at design time, before they become incidents.

Compliance

Stay audit-ready, continuously

Cloud and on-prem regulatory policies are validated on every change, across every vendor and zone. Policy drift and violations surface before deployment, with a full audit trail of what was tested and when.

Get started

Request a demo at www.forwardnetworks.com/request-a-demo