



VyOS
Networks

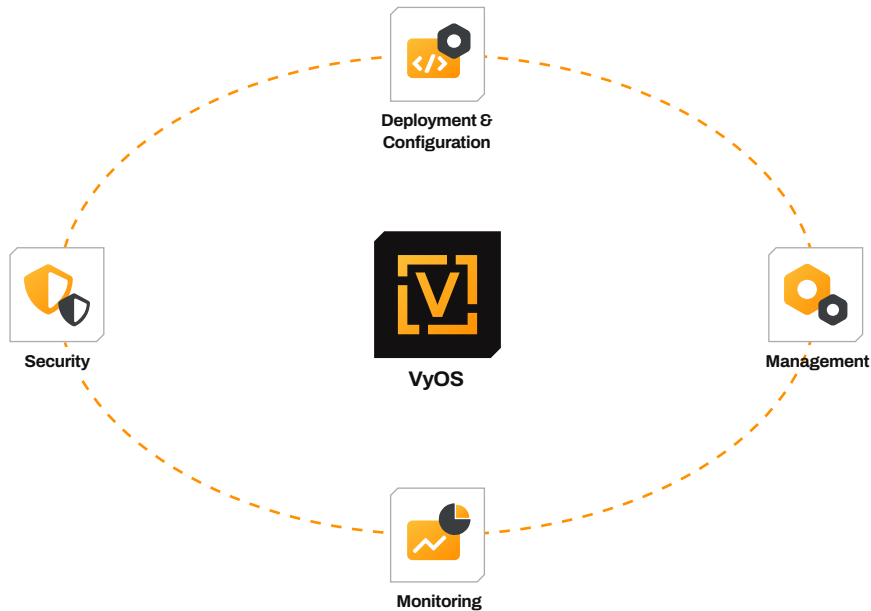


/ SOLUTION BRIEF

AUTOMATE NETWORK OPERATIONS WITH VYOS COMMAND SCRIPTING

Automate Network Operations with VyOS Command Scripting

Modern networks demand speed, consistency, and scalability. VyOS enables IT teams to achieve these goals with built-in command scripting capabilities that streamline configuration management, simplify operational tasks, and ensure reliable automation across any environment.



VyOS makes network automation simple and powerful by enabling configuration and operational commands to run directly from shell scripts.

With built-in support for sourcing VyOS functions and aliases, engineers can streamline repetitive tasks, deploy changes consistently, and integrate automation into any workflow.

Whether executing commands locally, running op-mode tasks remotely over SSH, or generating configuration scripts from other languages, VyOS scripting provides unmatched flexibility. Pre- and post-boot scripting options ensure full lifecycle automation, from applying initial preconfigurations at startup to running advanced logic once the system is fully online. This scripting capability empowers enterprises to reduce manual effort, minimize errors, and accelerate deployment of secure, scalable networks.

Key Capabilities

- **Non-interactive Execution**

Run configuration and operational commands directly from shell scripts, eliminating manual intervention and reducing the risk of errors.

- **Native VyOS Functions & Aliases**

Source `/opt/vyatta/etc/functions/script-template` at the top of your script to leverage VyOS-specific functions for a smooth, consistent experience.

■ Remote Command Execution

Automate operations across distributed environments by executing op-mode or configuration commands over SSH on remote VyOS systems.

■ Multi-Language Scripting Support

Generate configuration commands in any programming language and feed them into bash scripts for execution, ensuring flexibility in your automation toolkit.

■ Lifecycle Automation at Boot

- **Pre-config scripts:** Runs before the VyOS configuration is applied, perfect for initializing dependencies or preparing the system.
- **Post-config scripts:** Runs after the full configuration is applied, ideal for launching services or finalizing advanced logic.

Business Benefits

Accelerated Deployments

Quickly roll out consistent configurations across multiple devices.

Reduced Operational Risk

Minimize human error with repeatable, automated workflows.

End-to-End Flexibility

Adapt automation to your preferred scripting language and workflow.

Resilient Operations

Ensure critical tasks run automatically at every system boot.

VyOS command scripting transforms manual configuration into a fully automated, policy-driven process, empowering enterprises to build agile, secure, and future-ready networks.

Resources

VyOS documentation: [VyOS Automation](#)