

Network Automation with gRPC and Cisco

This reference architecture illustrates the end-to-end data flow for an automation system that interconnects a Linux control server with Cisco switches (NX-OS/IOS XE). The diagram details how a configuration intent, defined in a JSON file, is processed by a Python client, securely transmitted over a gRPC channel with mutual TLS (mTLS), and applied at the network device. It also shows the telemetry return flow, enabling constant monitoring and validation of the network state.

