Automate Full-Stack Infrastructure Deployment at Cloud Speed

Stack Automation by Quali, co-developed with Cisco



© 2026 Cisco and/or its affiliates. All rights reserved.

Benefits

- **Accelerate time-to-value:** transform your infrastructure delivery from weeks of manual assembly into a high-velocity, “rack-to-app” service that enables you to stand up production-ready environments in hours.
- **Simplify day-0 planning:** eliminate procurement and setup guesswork by automatically generating bills of materials and visualizing solution requirements before hardware is even ordered.
- **Shift engineering focus:** free your high-value teams from the “system integrator” bottleneck, allowing them to pivot from repetitive, low-value configuration tasks to driving high-value innovation.
- **Ensure predictable lifecycle operations:** replace manual guesswork with a documented, repeatable path for deployment and scaling, using continuous monitoring to detect and reconcile configuration drift.
- **Empower governed flexibility:** scale with confidence by adapting standard, pre-validated blueprints to meet unique business needs or by building custom, compliant infrastructure from scratch using your existing code repositories and agentic design tools.

© 2026 Cisco and/or its affiliates. All rights reserved.

Transform your data center and AI infrastructure from manual, component-based assembly into a high-velocity, automated service that delivers outcomes in hours rather than weeks.

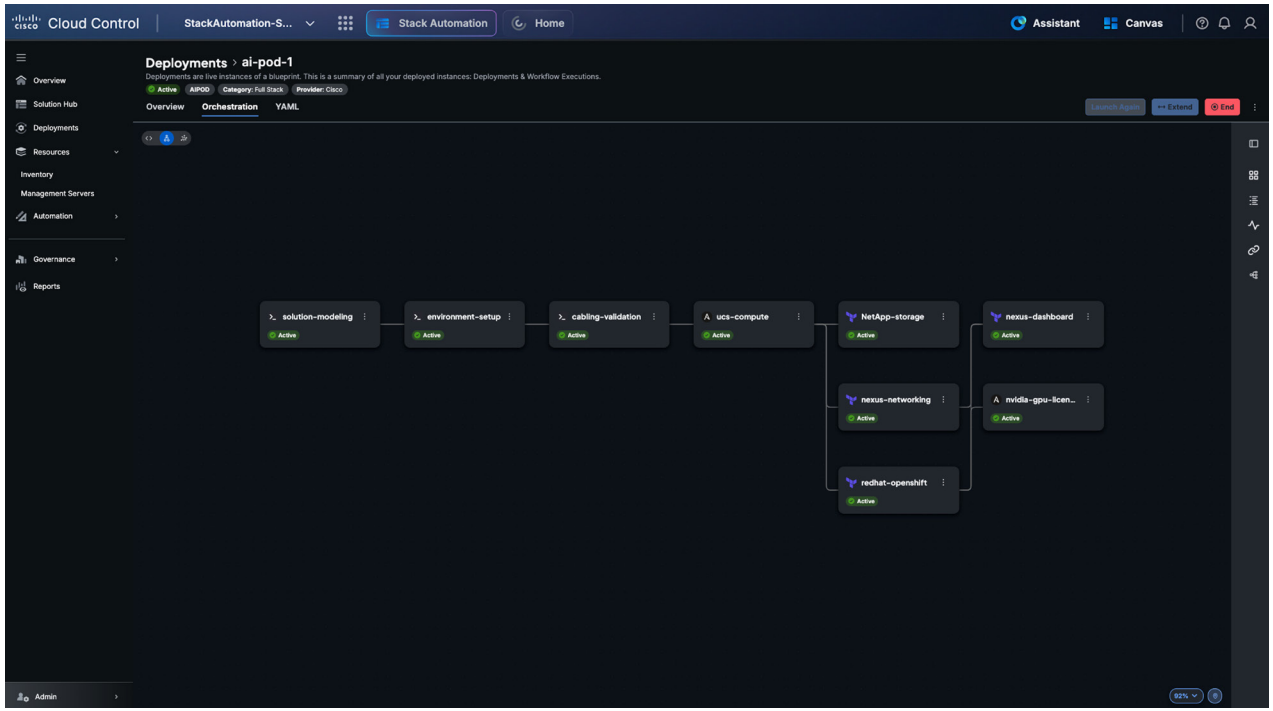


Figure 1. Stack Automation by Quali orchestrates the deployment of full-stack solutions such as Cisco AI PODs in a single, automated workflow, accelerating time-to-value for production-ready infrastructure.

As enterprises race to modernize their data centers for the AI era, IT teams often find themselves trapped as system integrators, manually stitching together compute, networking, and software stacks that were never designed to interoperate. This legacy, building-block approach creates significant bottlenecks, leading to persistent configuration drift, human error, and delays that prevent businesses from scaling their traditional workloads and AI initiatives.

Trends and challenges

In an era of rapid data-center, AI, and edge expansion, IT leaders are increasingly constrained by manual delivery processes that prevent them from achieving the faster time-to-value their organizations demand. Many organizations remain tethered to outdated deployment models that force high-value engineering teams to waste time on manual infrastructure assembly rather than service delivery.

To solve this, the market is moving toward unified control planes that provide lifecycle accountability from design through retirement. Gartner notes that by 2027, 80 percent of enterprises will shift from component-based procurement to full-stack solution delivery to keep pace with modern AI demands. This transition addresses the growing risks of configuration drift and shadow IT, which arise when internal teams bypass slow, cumbersome procurement processes to meet business velocity targets.

© 2026 Cisco and/or its affiliates. All rights reserved.

Stack Automation by Quali, integrated directly into Cisco Cloud Control, serves as a deployment engine that brings Cisco's full-stack solution strategy to life. By codifying our unmatched depth in networking, compute, security, and observability into repeatable infrastructure outcomes, Stack Automation transforms the provisioning experience for data center, AI, and edge infrastructure from manual labor into a high-velocity, cloud-like service, ensuring your infrastructure is built for today's requirements.

How it works

Stack Automation acts as your intelligent deployment engine, managing the lifecycle of infrastructure from initial day-0 planning through to day-1 delivery. By integrating Cisco Validated Designs and agentic intelligence, the platform automates the complex configuration of compute, networking, and software components, ensuring that your environment is built to professional standards before any production workloads go live.

Stack Automation provides out-of-the-box blueprints for pre-packaged, multi-vendor solutions including Cisco AI PODs, Splunk® PODs, and FlexPod, as well as the Cisco Secure AI Factory with NVIDIA, which leverages the core AI POD blueprint alongside blueprints for security and observability.

- **Day-0 planning:** You can model your desired solution, visualize components, and generate a complete Bill of Materials (BOM) before ordering, helping to ensure that all required elements are accounted for early in the lifecycle.
- **Automated deployment:** Once hardware is staged, Stack Automation verifies your physical setup, then uses pre-validated blueprints to take care of the heavy lifting, replacing countless manual configuration steps across networking, compute, and storage layers, within a single automated workflow.
- **Software integration:** Stack Automation automatically provisions necessary software stacks, such as Red Hat OpenShift or NVIDIA NIMs, and applies security best practices to ensure consistent policy enforcement.
- **Hand-off to operations:** Once the solution is deployed, Stack Automation seamlessly hands off management to Cisco Intersight® or Nexus® Dashboard, enabling continuous monitoring and lifecycle management.

The Cisco Advantage

Stack Automation transforms infrastructure delivery from manual assembly into a high-velocity service. You gain AI-native orchestration built for data center, AI, and edge lifecycles, combining our deep engineering expertise and CVDs with vendor-neutral support. We provide deterministic governance to ensure compliance, agentic intelligence for real-time optimization, and a barrier-free Essentials tier that removes high costs, allowing you to focus on scaling your business foundation instead of managing complex, fragmented integration tasks.

Cisco Capital

Financing to help you achieve your objectives

Cisco Capital® can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital is available in more than 100 countries. Learn more.

Use cases

Business outcome	Description
AI inferencing and machine learning workloads	Rapidly deploy a validated Cisco AI POD, using Red Hat OpenShift on bare metal with Cisco Nexus, Cisco UCS®, and GPU acceleration
High-performance Splunk enterprise operations	Rapidly deploy a validated Splunk POD, integrating Cisco UCS, Nexus networking, and the Splunk Operator on Kubernetes
Streamlined converged infrastructure management	Rapidly deploy a validated FlexPod, combining Cisco UCS and Nexus with NetApp storage and Red Hat OpenShift
Secure and observable AI lifecycle management	Rapidly deploy a validated Cisco Secure AI Factory with NVIDIA by combining the AI POD with automated blueprints for Splunk, Isovalent®, and Cisco AI Defense

Learn more

Start delivering production-ready infrastructure at cloud speed today.

Visit the Solutions Hub on the Stack Automation Help Center to explore our full-stack catalog, or create an account and login with your Cisco ID to start a free, 30-day trial at cloud.cisco.com or stackautomation.cisco.com. Alternatively, contact your Cisco account representative to schedule a guided demo of how our deployment engine can transform your operations.

Many of the products and features described herein remain in varying stages of development and will be offered on a when-and-if-available basis. The delivery timeline of these products and features is subject to change at the sole discretion of Cisco, and Cisco will have no liability for delay in the delivery or failure to deliver any of the products or features set forth herein.

© 2026 Cisco and/or its affiliates. All rights reserved. Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

C22-6809333-00 11/26