

Stack Automation by Quali

Co-engineered with Cisco



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Product overview

Stack Automation by Quali, co-engineered with Cisco, is a SaaS-based deployment automation platform that shifts Cisco infrastructure and ecosystem software from manual, component-by-component configuration to a fully automated, cloud-like day 0-1 deployment model. Delivered exclusively through Cisco and built on Quali's Torque automation engine, the platform lets teams launch blueprints, validated by Cisco, from a self-service catalog or compose custom blueprints from existing Terraform, Ansible, and Helm assets - with agentic Copilot assistance to generate, optimize, and self-heal configurations. Stack Automation by Quali is expected to be available in Cisco Cloud Control in Q1 FY27.

Stack Automation reaches on-premises infrastructure through a lightweight management server deployed as a virtual appliance, and orchestrates deployments spanning compute, networking, storage, security, observability, and AI software layers across cloud, on-premises, and hybrid environments.

Supported solutions

Stack Automation by Quali ships with a growing catalog of self-service blueprints validated by Cisco and spanning networking, security, storage, compute provisioning, observability, and AI/ML infrastructure. The table below summarizes the catalog by category as of July 30, 2026; the current, authoritative list is always available at stackautomation.cisco.com/help/solutions-hub.

Category	Representative solutions
Networking and SDN	Nexus® Dashboard, Nexus 9300v, Cisco® Catalyst® Center, Catalyst 8000v, Cisco Crosswork Network Controller, Cisco Live Protect
Security	Cisco Secure Firewall Threat Defense (FTDv), Cisco Secure Firepower Management Center, Cisco Identity Services Engine, Isovalent® Hubble/Cilium Enterprise/Tetragon
Storage and data protection	NetApp ONTAP Select, Cohesity Virtual Edition, Veeam Backup and Replication, Qumulo Core NAS, VAST Data, Portworx by Everpure
Compute provisioning (OS and platform)	Bare-metal ESXi 7.0/8.0, Rocky Linux, Ubuntu LTS, Windows Server, Proxmox VE, VMware vCenter Server Appliance, Red Hat OpenShift on Bare-Metal, K3s/Kubernetes
AI, ML and, GPU-as-a-Service	AI-Ready Red Hat Cluster, Red Hat OpenShift AI, NVIDIA and AMD GPU operators, Cisco Secure AI Factory with NVIDIA, LLM model catalog (Llama, Mistral, and others), vLLM, Ollama, Open WebUI, Jupyter/VSCoDe Notebooks
Observability and IT/OT operations	Splunk® Enterprise, Grafana + Prometheus, ThousandEyes® Enterprise Agent, NetBox Labs, Cisco Cyber Vision
Management and ecosystem integration	Cisco Intersight® Assist, Cisco vAPIC
Public cloud (AWS/ Microsoft Azure)	RDS Database, RHEL VM pipelines, and additional NVIDIA NIM-based AI pipelines

Management server – system requirements

The Stack Automation management server is deployed as a virtual appliance on customer-owned infrastructure and connects the SaaS control plane to on-premises inventory.

Requirement	Specification
Hypervisor platform	VMware vCenter 6.7 or later
vCPU	2
Memory	16 GB
Disk	200 GB, thick-provisioned (thin provisioning not supported)

Software downloads

The management server and the software it deploys (OS images, blueprint assets, and packages) are downloaded directly from origin at deployment time – they are not cached or proxied through the Stack Automation SaaS control plane.

Required network ports

The management server requires outbound connectivity to the Stack Automation SaaS control plane:

Source	Destination	Port	Protocol
Management server	stackautomation.cisco.com	443	TCP (HTTPS)

The management server's DNS resolver must be able to resolve stackautomation.cisco.com as well as general internet domains—confirming it has working, unrestricted DNS resolution (not just an internal-only resolver limited to local host names. Firewalls, DNS servers, and any upstream proxy in the path must permit both the outbound connection and name resolution for this domain.

Proxy configuration considerations

If an HTTP/HTTPS proxy is required for outbound access, configure the proxy allow-list with the explicit hostname stackautomation.cisco.com.

- Do not use a wildcard entry such as *.cisco.com – wildcard allow-listing is not supported and may cause connectivity or security-policy issues.



Licensing

Stack Automation is offered in the following license tiers:

- Essentials: consumption-based access to the full solutions catalog, for up to 100 Concurrent Compute Units (CCUs) and standard community support
- Essentials Support: along with fixed capacity and standard support from Quali, it gives you a remote connection to Quali for hands-on troubleshooting.
- Advantage: includes everything in Essentials, plus blueprint customization, custom repository integration, and agentic Copilot capabilities

Platform limits and specifications

The following limits characterize the Stack Automation SaaS platform and its management server component. Values are finalized separately and will be published ahead of general availability.

Segment	Topic	Value
Management Server	Maximum concurrent simultaneous blueprint deploys (2 vCPUs/16GB RAM)	10 blueprints
Management Server Storage	Space allocated for ISO caching	200GB
Account	Maximum spaces per account	200
Blueprint	Maximum grains per blueprint	200
Repositories	Maximum attached repositories	300 repositories
Repository assets	Maximum assets imported per repository	10,000
Space	Maximum blueprints per space	500
Copilot requests	Maximum Requests Per Minute (RPM)	10,000
Copilot tokens	Tokens Per Minute (TPM)	4,000,000
Blueprint Execution	Simultaneous server support - OS and Platform blueprints	4 servers where multiple selection is supported



Supported inventory providers

Stack Automation discovers and provisions against the following inventory sources:

- Cisco Intersight
- Cisco Nexus Dashboard 4.1 or later
- VMware vCenter 6.7 or later
- Amazon Web Services (AWS)
- Microsoft Azure

Additional inventory provider integrations are on the platform roadmap; see Disclaimer.

SKUs

Ordering information for Stack Automation license tiers:

Billing PID	Description	Unit of quantity	Pricing quantity	Initial term (months)
STKAUTO-SAAS-ESS	Stack Automation SaaS Essentials Support (optional)	Yearly support	1 (for up to 100 CCUs)	12–60
STKAUTO-SAAS-AD	Stack Automation SaaS Subscription Advantage	CCUs	100–999,999	12–60

Note: Ordering support is optional for the Stack Automation Essentials tier.



OS and platform blueprint – deployment prerequisites

Bare-metal OS and platform blueprints (Category: “OS and Platform” in the Stack Automation catalog) provision Cisco UCS® servers directly through Cisco Intersight. Prerequisites differ by server form factor:

Cisco UCS B-Series and Cisco UCS X-Series (Intersight-managed, fabric interconnect-attached)

- Boot storage: M.2 (MSTOR-RAID mirrored) or SD/SAS (SDA/FMEZZ1-SAS) RAID controller, selectable at launch
- Networking: the blueprint provisions dual vNICs across the A and B fabric paths.
- Virtual volumes created by the boot/RAID policy: to be confirmed against the install-script output
- Supported from Cisco UCS M6-generation servers and later

Cisco UCS C-Series (standalone, non-fabric-interconnect)

- All physical network ports must be cabled and connected for server discovery and provisioning to complete successfully.
- Disk/RAID and OS install prerequisites follow the same M6-and-later support boundary as Cisco UCS B-Series/X-Series.

For more information

For the latest documentation, blueprint catalog, and how-tos, visit stackautomation.cisco.com/help.

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Disclaimer

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