

Cisco Services as Code

Available through Cisco Professional Services

Benefits

- **Automation:** Easily manage complex and dynamic environments by creating or modifying infrastructure programmatically, using code-based configuration for automated provisioning, deployment, and scaling.
- **Testing and validation:** Improve change reliability and quality with configuration code that can be tested, validated, and integrated into continuous integration and continuous deployment (CI/CD) pipelines.
- **Version control:** Enable IT teams to track changes, collaborate, and roll back to previous versions if needed.

Automation, DevOps consulting, and support

Traditionally, the configuration and provisioning of network services and infrastructure are executed manually and require a series of steps and interactions with various tools and platforms. But this approach can be errorprone, time-consuming, and difficult to reproduce consistently.

- Over 80% of network problems are due to improper configuration and issues with change management.¹

Cisco® Services as Code allows your organization to define its network infrastructure state and treat all elements as software that can be versioned and managed at scale. Automation and DevSecOps methodologies expedite the provisioning,

configuration, testing, and deployment processes to enable you to seamlessly operate and optimize your network, backed by 24x7 technical support.

Achieve faster success with Cisco:

- **Extensive expertise** with thousands of engineers and decades of experience in network transformations.
- **Proprietary IP** with intelligent insights amassed from millions of devices in production and Cisco AI and machine learning.
- **Knowledge transfer** to upskill your organization and help you maximize the customer experience with hands-on training.

Service overview

By combining Cisco Customer Experience (CX) expertise with open-source communities, we can align Services as Code with your change management cycle to improve efficiency, accuracy, and scalability.

Services as Code includes the following:

- **Readiness assessment** to provide insight into functional specifications and help you get from the current state to desired state of CI/CD with seamless automation.
- **People, process, and solution enablement** that accelerates the adoption and operation of your networks for improved efficiency, accuracy, and scalability.
- **Solution setup and continuous integration** to allow your network teams to rapidly and reliably build, deploy, and manage network infrastructure as code.
- **Automated deployment** that delivers continuous deployment of changes.
- **Release management** for planning, coordinating, and deploying software releases to production environments.
- **24x7 support** throughout the lifecycle.

Applicable technologies

Services as Code is currently available for the following technologies:

- **Cisco Application Centric Infrastructure (ACI®)** is an advanced software-defined networking (SDN) solution designed for data centers that enables automation, agility, and security by centrally managing network policies based on application requirements.
- **Cisco SD-WAN** connects any user to any application with integrated capabilities for multicloud, security, predictive automation, and enhanced network visibility – all on a Secure Access Service Edge (SASE)-enabled architecture.
- **Cisco Nexus® Dashboard Fabric Controller (NDFC)** is a key component of Cisco's data center solutions. It provides comprehensive automation and management capabilities for the deployment and operation of network fabrics, particularly in large-scale data centers.
- **Cisco Identity Services Engine (ISE)** is the policy decision point in zero-trust architecture. It gathers intel from the stack to authenticate users and endpoints, automatically containing threats.
- **Cisco Catalyst® Center** is a powerful network management system that leverages AI to connect, secure, and automate network operations across wired and wireless infrastructures.
- **Cisco Meraki®** is a cloud-managed IT solution that simplifies network management by providing a comprehensive portfolio of products managed through a single web-based dashboard.
- **Cisco Unified Branch** is a comprehensive solution designed to simplify and unify networking, computing, and communication services at branch office locations into a single platform.
- **Cisco AI Assistant for Services as Code**, currently available for ACI, NDFC, and SD-WAN, with more coming.

Next steps

Cisco Services as Code are available through Cisco Professional Services as an annual subscription service. To get started, contact your account representative or authorized Cisco partner today.