Services as Code for Application Centric Infrastructure

Automate IT infrastructure management

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

Cisco® Services as Code for Application Centric Infrastructure (ACI®) allows enterprises to define their network infrastructure state and treat all network elements as software that can be versioned and managed at scale. Automation and DevSecOps methodologies expedite the provisioning, configuration, testing, and deployment process that enables the customer to seamlessly operate and optimize their network, backed by 24x7 technical support.

- Organizations that automate more than 70% of their network change activities will reduce the number of outages by at least 50% and deliver services to their business constituents 50% faster.
- More than 4 out of 5 developers expect artificial intelligence (AI) coding tools will make their team more collaborative.
- 70% of developers say AI coding tools will offer them an advantage at work and cite better code quality, completion time, and resolving incidents as some of the top anticipated benefits.

Outcomes

- **Version control**: Enable IT teams to track changes, collaborate, and roll back to previous versions of configuration files.
- **Automation**: Manage complex and dynamic environments easily by creating or modifying infrastructure programmatically using code-based configuration for automated provisioning, deployment, and scaling.
- **Test 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.
Service overview

Services as Code for ACI includes the following:

- **Readiness assessment** provides insight into functional specifications to get from current state to the desired state of CI/CD with seamless automation.

- **People, process, and solution enablement** to accelerate the adoption and operation of your networks for improved efficiency, accuracy, and scalability.

- **Solution setup and continuous integration** that allows network teams to rapidly and reliably build, deploy, and manage network infrastructure as code.

- **Continuous deployment** that automates the process of deploying changes.

- **Release management** for planning, coordinating, and deploying software releases to production environments.

- **24x7 support** throughout the lifecycle.

Why Cisco?

Leverage the unrivaled expertise and network optimization experience of Cisco Lifecycle Services to drive your business forward.

- **Extensive expertise** with thousands of engineers and decades of experience in network transformations.

- **Proprietary IP** with intelligent and actionable insights amassed from millions of devices in production and Cisco AI and machine learning.

- **Best practices, customer insights, and expert recommendations** from over 35 years of experience.

- **Proven track record** with over 50M network devices installed and more than 2.2M customer issues resolved annually.

- **Leverage the talent you need**, and trust Cisco to act as an extension of your team to provide the application performance skillsets you require.

- **Knowledge transfer** to upskill your organization and help you maximize customer experience with hands-on training.

Next steps

Services as Code for ACI is consumed via Lifecycle Services as an annual subscription service, bringing together expertise from our CX and open-source communities and aligning them into the customer’s change management lifecycle.

To get started, contact your Cisco representative or partner today.