

# Cisco DevNet Scales a Global Developer Platform for Sandbox Environments



## Overview

Cisco DevNet provides the global community of Cisco developers access to the resources they need to build services leveraging Cisco's products.

Cisco DevNet Sandboxes are a critical part of this experience, providing developers access to launch sandbox environments pre-configured to run code for common development use cases.

### 800K+

Members

Cisco DevNet members

### 10K+

Monthly Deployments

Sandbox environment  
deployments every month

### 24/7

Global Availability

Availability needed for Cisco  
DevNet members globally

## The Challenge

With a community of more than 800K users located across the globe, delivering the Cisco DevNet Sandbox experience is a massive undertaking.

The Cisco DevNet team would need a way to ensure environments are reusable, easy to launch, and 100% reliable around-the-clock.



# The Solution



## Self-Service Catalog



## Environment as Code Blueprints



## Visibility & Optimization



### Reusable Environment as Code Blueprints

Torque creates a single definition containing the code to provision all components needed to generate each environment so users can launch them repeatedly, on-demand



### Self-Service Catalog

Cisco DevNet Sandboxes feature an easy-to-use catalog where users can filter and search to find the sandbox environments they need and access detailed instructions on how to use them, making environments accessible even for those with limited expertise in infrastructure.



### Visibility & Optimization

Torque provides the Cisco DevNet team visibility into how the infrastructure supporting environments are performing and a single blueprint to manage when correcting errors or pushing critical updates needed to ensure reliability, security, and efficiency.



### Intuitive Environment Experience

Cisco DevNet developers can launch environments in just a few clicks and access the active outputs quickly and easily, providing a valuable service to a global community of developers building digital solutions leveraging Cisco products and services.

# Results

## Streamlined

Developer Experience

## Performance

Optimal Environment

## Visibility & Automation

The Cisco DevNet team built its Sandbox platform on Torque to simplify the creation and maintenance of Sandbox environments using Torque's proprietary Environment as Code blueprints and self-service catalog. This enabled the DevNet team to provide an intuitive platform for its global community of developers to run the infrastructure they need on-demand, while simplifying maintenance of environments by providing a single definition for the DevNet team to manage continuously.

## Best Practice

- **Democratizing access** to infrastructure doesn't need to sacrifice control or governance.
- Creating reusable environment blueprints can serve as the foundation for a **self-service deployment approach** while ensuring end users only launch environments that are built correctly.