Nautobot Cloud

Enabling NetDevOps & Data-Driven Network Automation for Everyone

The Challenge

Deploying a new application often seems straightforward and easy. However, this is usually just in a lab or non-production environment and gives a false sense of what is needed to deploy a hardened and highly available application for production. The same is true for Nautobot. It is possible to spin up Nautobot in minutes or hours. However, these deployments are not suited for production.

Based on the organization, production deployments take weeks to months requiring advanced skills and involvement from numerous teams, including Security, IP Services, Networking, Database, Storage, Cloud, and DevOps. Beyond the one-time deployment, the infrastructure and applications require ongoing monitoring, alerting, automation, and upgrades. The rise of cloud computing has shown the world how simple IT should be.

Nautobot Cloud is the latest innovation by Network to Code to streamline network automation deployments. Nautobot Cloud delivers a self-service turnkey solution that fully automates the deployment and management of Nautobot. Network teams should be liberated from cloud architectures, deployments, and maintenance allowing them to focus on core business and automation activities that drive growth.

## Network to Code's Cloud Offering to Accelerate Network Automation

Nautobot, the leading open source Network Source of Truth and Network Automation Platform for Enterprises, has been deployed by hundreds of organizations. Nautobot unlocks the power of Data-Driven Network Automation and showcases the importance of the relationship between data and network automation. In order to simplify the adoption of Nautobot and overall adoption of network automation, Network to Code created Nautobot Cloud.

Nautobot Cloud Overview

Nautobot Cloud is a SaaS platform that offers self-service and allows organizations to manage their Nautobot infrastructure in the most efficient manner possible. From one-click deployments and database snapshots to rich dashboards that trend Nautobot adoption and usage, organizations are now able to focus less time on deploying and managing infrastructure and tools and more time on consuming tools and building automation.
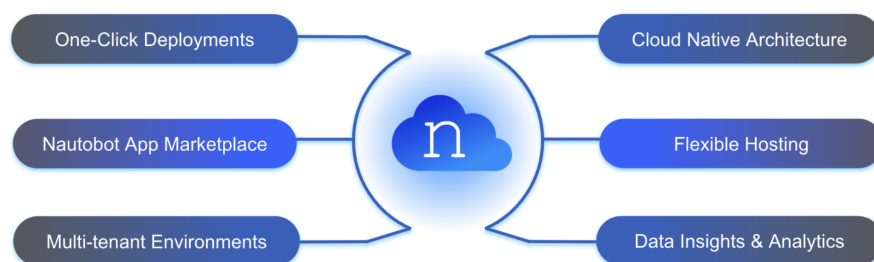
Nautobot Cloud empowers organizations to take full advantage of Nautobot as quick as possible. By managing the infrastructure and Nautobot in the cloud, clients can access as many Nautobot instances as they need without concerning themselves with infrastructure setup and maintenance. Nautobot Cloud heralds a new era of network management and automation by supercharging an organization's tools, processes, and people without the infrastructure management obstacles.
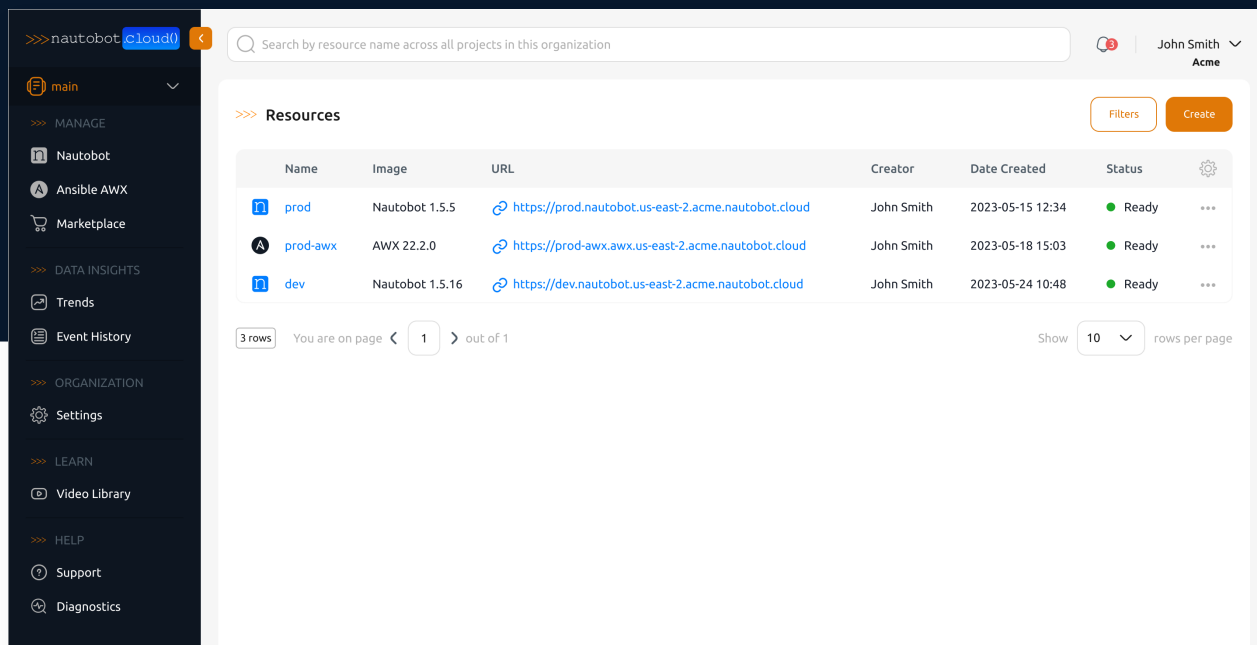
Nautobot Cloud Summary

Zero Infrastructure Operations

Nautobot Cloud drastically reduces the overhead required to deploy and manage data-driven network automation, extending beyond Nautobot to include tools like Ansible AWX and Batfish. Yes, that's right, Nautobot Cloud allows users to instantly spin up and manage Ansible AWX too!

Network Automation Marketplace

Nautobot Cloud incorporates a Nautobot App marketplace featuring the most common Nautobot Apps such as Golden Configuration and Device Lifecycle Management. With just a few clicks, new functionality is added to an existing Nautobot deployment.

Enterprise Data Analytics

Nautobot Cloud features enterprise grade dashboards ensuring that decisions are informed by empirical data. Users can see trends of their network and automation data across all Nautobot instances.

Robust APIs for NetDevOps Pipelines

Everything in Nautobot Cloud has an API. Engineers can integrate Nautobot Cloud into their pipelines using the programming language or DevOps tool of their choice.

Direct Access to Experts

With Nautobot Cloud, users get direct access to both Nautobot and Network Automation Experts ready to assist organizations on their network automation journey.

Click to Deploy Network Automation in Minutes

Adoption's largest hurdle has been eliminated. Nautobot Cloud does not require engineers from several domains to collaborate across extended timelines in order to deliver a world-class Source of Truth and Automation Platform. Quite simply, Nautobot Cloud delivers as many instances of Nautobot and Ansible as needed in minutes all while ensuring high availability in an auto-scaling Multi-AZ and multi-tenant cloud.

Furthermore, Nautobot instances can be upgraded with a single click (minor and patch releases), ensuring that it is as seamless as possible to test and deploy the latest feature set all while being free of the infrastructure and tooling maintenance.
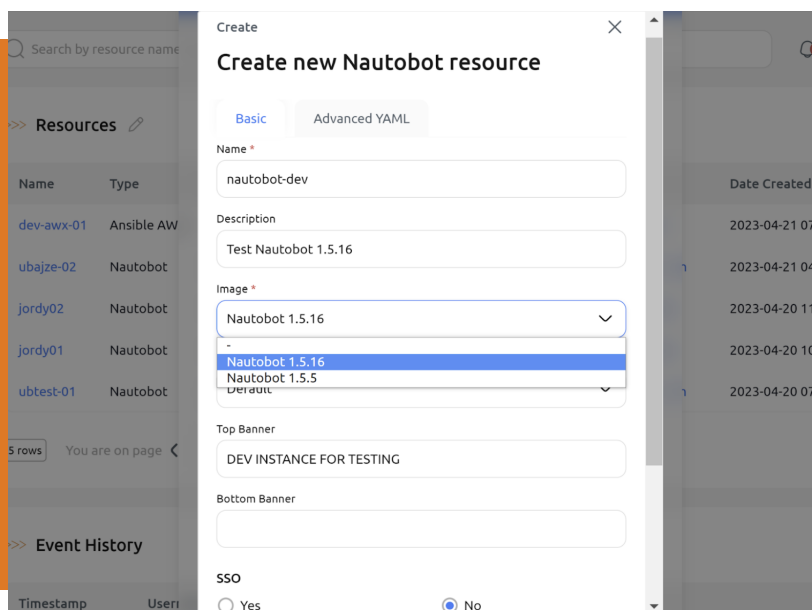
Full Stack Network Automation with Nautobot Cloud

In addition to Nautobot, Nautobot Cloud streamlines the deployment and management of Ansible AWX, Batfish, a Telemetry stack, and Linux automation utilities. Users can truly deploy and manage a full network automation stack directly from Nautobot Cloud. With Managed Services, it is also possible to package custom images and utilities for commercial or custom software.

Nautobot
- Single Source of Truth Platform
- Network Automation Platform

Ansible AWX
- Automation Playbooks, Inventories & Job Templates.

Network Automation Utils (Linux)
- Jump hosts
- Pre-packaged apps to suit your needs

Batfish
- Network Modeling & Analysis
- Configuration Testing

Grafana / Prometheus / Telegraf
- Rich data collection, storage and visualization tooling

Golden Configuration
Automate configuration backups, perform configuration compliance, and generate intended

Version Control
Allows users to have change (workflow) management with approvals when managing data

BGP Models
Allows users to model ASNs and BGP Peerings (internal and external) within Nautobot.

Capacity Metrics
Exposes key data in Nautobot as Prometheus endpoints to be later consumed and visualized in tools

Circuit Maintenance
Helps manage and view maintenances for circuits directly in Nautobot.

Data Validation
Ensure proper data hygiene and that corporate standards are enforced when adding new data

Device Lifecycle Management
Helps manage lifecycle related data such as end-of-life dates, viable software versions, and

Device Onboarding
Simplifies onboarding and re-onboarding devices into Nautobot.

Nautobot Cloud Marketplace

Enhancing Nautobot's core functionality with Nautobot Apps is easier than ever with just a click-to-install of an app in the Marketplace. From tracking configuration compliance with the Golden Configuration App to modeling firewall policies with the Nautobot Firewall Models App, it is all available in the Marketplace. With just a few clicks, the most popular Nautobot Apps can be onboarded to any Nautobot instance.

Network Automation Trends

The dashboards are designed to deliver the information you need to make business decisions informed by empirical data. Spanning a diverse range of datasets to include devices, jobs, performance information and more.
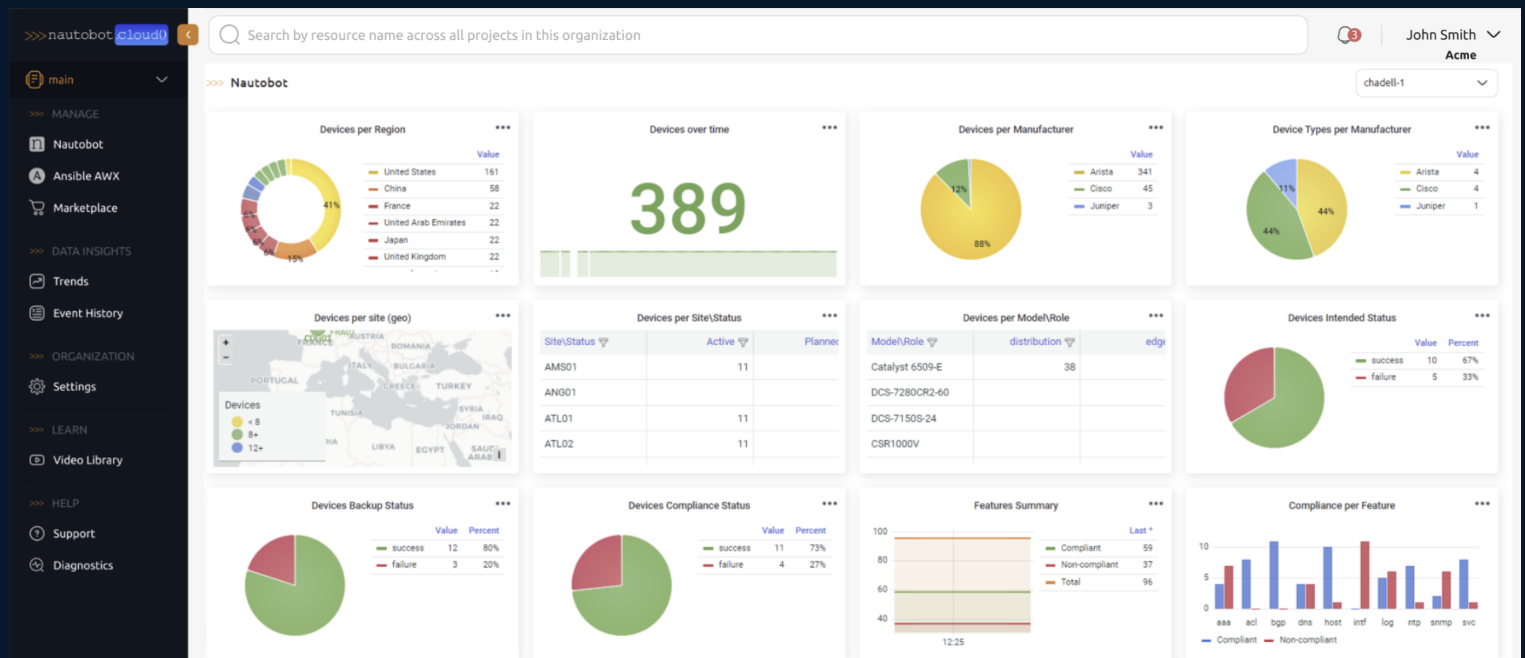
Nautobot Cloud Offers

There are two main offers for Nautobot Cloud. The difference between them is based on the decision to use Nautobot as a Network Source of Truth or a Network Automation Platform. There are also some differences around SLAs, SSO, and using custom images required for custom Nautobot Apps.

Plan Features	Basic	Premium
Global Support Network Automation Operations Center	Standard 8x5xNBD	Enterprise 24x7x365
Nautobot Instances Each with HA	Up to three (3)	Unlimited
Single Sign-On	GitHub or Google Auth	Any SSO/SAML Provider
Access to Marketplace	Source of Truth Apps	All Apps
One Click Deployments Snapshots & Restores Global Deployment Options (Multi-AZ HA) Dedicated Clusters w/ Autoscaling Dashboards Secrets Mgmt pre-integrated (Hashicorp)	✓	✓
Custom Nautobot App Images	✗	✓
Ansible AWX Instances Each with HA	✗	✓

Network Automation as a Service

All Premium Features

Configuration Compliance

OS Upgrades

Automation SME Credits

Nautobot Tasks	Ansible Tasks
Create & Manage: ● Jobs ● Export Templates ● GraphQL Queries	Create & Manage: ● Playbooks ● Templates & Filters ● Modules
Perform Nautobot Upgrades	Perform Ansible AWX Upgrades

Custom Automation Tasks

Want to learn more?

Use the following links for additional information:

- **Check out the 3-Min Nautobot Cloud demo on YouTube**

- **Contact Us for a Live Demo and Overview**

About Network to Code:

Network to Code is a network automation services and solutions provider that helps companies transform the way their networks are deployed, managed, and consumed. Through managed and professional services, Network to Code enables enterprises across all industries and geographies to deploy data-driven network automation based on NetDevOps principles to improve reliability, efficiency, and security while reducing costs.

NTC is the sponsor of Nautobot, an open source Network Source of Truth and Network Automation Platform with a growing ecosystem of integrations and partners. Nautobot is the leading Network Source of Truth for Enterprises looking to adopt a data-driven approach to network automation and a platform that complements any network automation journey.