



Red Hat Ansible Automation Platform

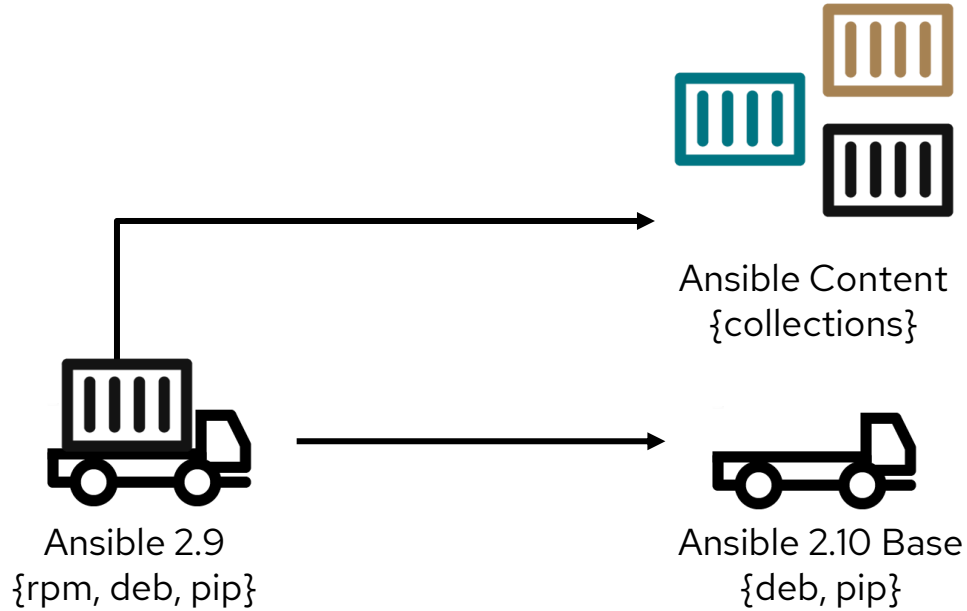
NGINX Controller with Ansible Collections

June 18, 2020

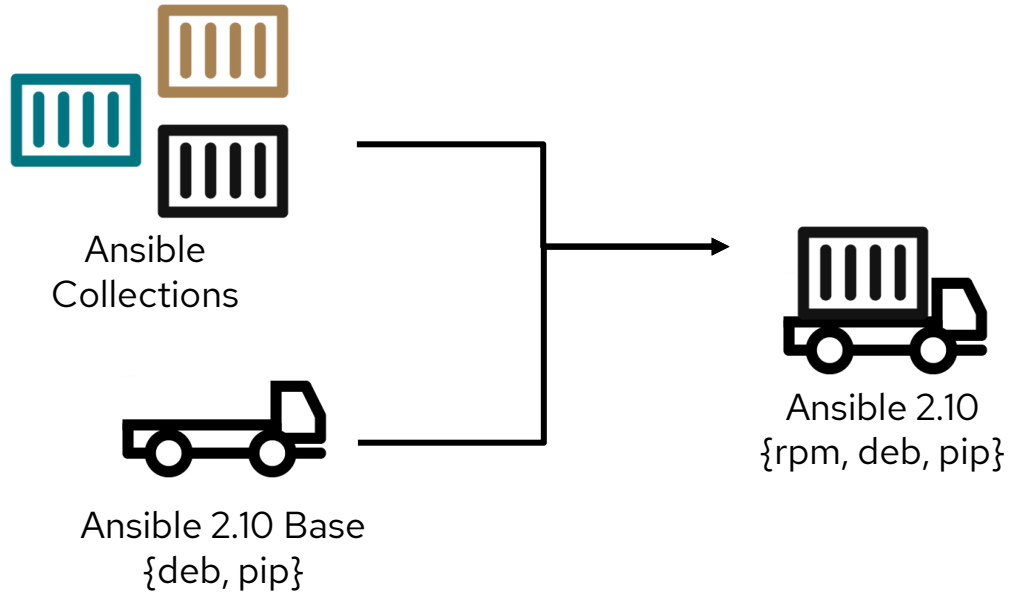
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Red Hat Ansible

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F5 Networks / NGINX

Ansible Project Status



Building Ansible 2.10



Introducing the Ansible Collection

Simplified and consistent content schema



- A standardized way to organize and package Ansible content
- Include roles, modules, module utilities, plugins, documentation
- Semantic versioning
- Portable and flexible delivery

Step 2: Simplify Ansible Distribution Channels

Ansible Galaxy

galaxy.ansible.com

- Community supported
- Extended to leverage Collections framework
- “Latest and greatest”

Ansible Automation Hub

cloud.redhat.com

- Certified, jointly supported by Red Hat and Partner
- Access to advanced analytics
- “Slow and steady”

Step 2: Distribution Example, Nginx Controller

Ansible Galaxy

galaxy.ansible.com

[https://galaxy.ansible.com/
\\$namespace/\\$collection](https://galaxy.ansible.com/$namespace/$collection)

https://galaxy.ansible.com/nginxinc/nginx_controller

namespace.collection_name.module
nginxinc.nginx_controller.nginx_controller_install

Ansible Automation Hub

cloud.redhat.com

[https://cloud.redhat.com/ansible/automation-hub/
\\$namespace/\\$collection](https://cloud.redhat.com/ansible/automation-hub/$namespace/$collection)

https://cloud.redhat.com/ansible/automation-hub/nginxinc/nginx_controller/

namespace.collection_name.module
nginxinc.nginx_controller.nginx_controller_install

Step 3: Let's Go! (The Developer TL;DR)

1. Init collection: `ansible-galaxy collection init foo.bar`
2. Sanity testing: `ansible-test sanity`
3. Unit tests: `ansible-test units`
4. Integration tests: `ansible-test integration`
5. Build the collection: `ansible-galaxy collection build`
6. Publish the collection: `ansible-galaxy collection publish`
7. Install the collection: `ansible-galaxy collection install
foo.bar`

NGINX (Handoff!)

High-Performance App Delivery

THE VALUE OF NGINX PLUS

Secure

JWT Authentication

OpenID Connect and OAuth token validation

FIPS-Compliance

Verifiable FIPS mode for audit-friendly TLS

WAF Options

Stop SQL injection, LFI, RFI, and almost any L7 attack

Strengthen

Active Health Checks

Detect and work around a much wider variety of problems

Supported High Availability

Avoid single points of failure on-prem and in clouds

Real-Time Monitoring

Create live dashboards and connect to NGINX/3rd-party tools

Scale

DNS-Based Service Discovery

Automate discovery and load balancing of new servers

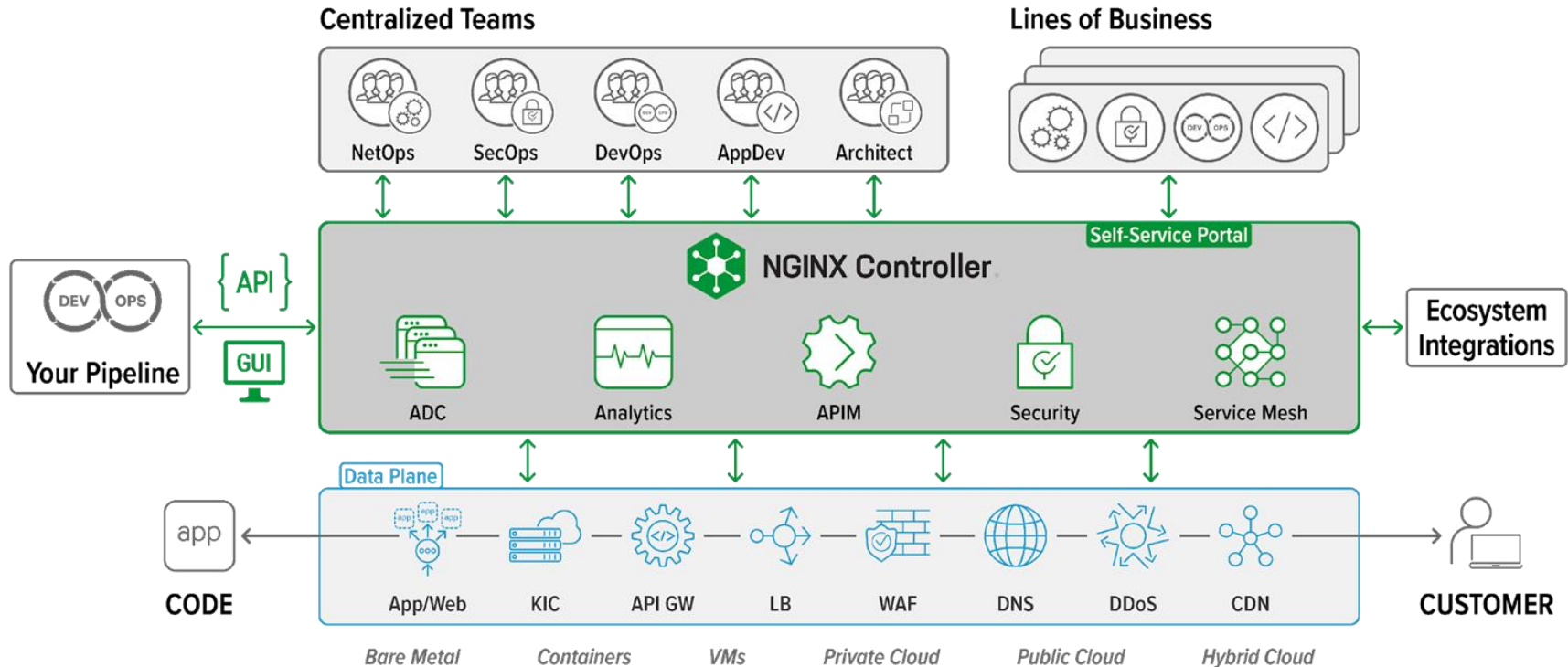
Key-Value Store

Dynamically control traffic flow through RESTful API

Clustering

Share runtime state across multiple instances

NGINX Controller 3+ Built for Modern App Teams



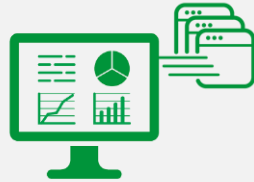
Capabilities of NGINX Controller

Automation-Driven API



Automates services deployment across pipelines reducing overhead & complexity

App-Centric



Configuration and visibility aligned to how teams develop applications

Self-Service



Delivers self-service to line of business without compromising enterprise-wide compliance

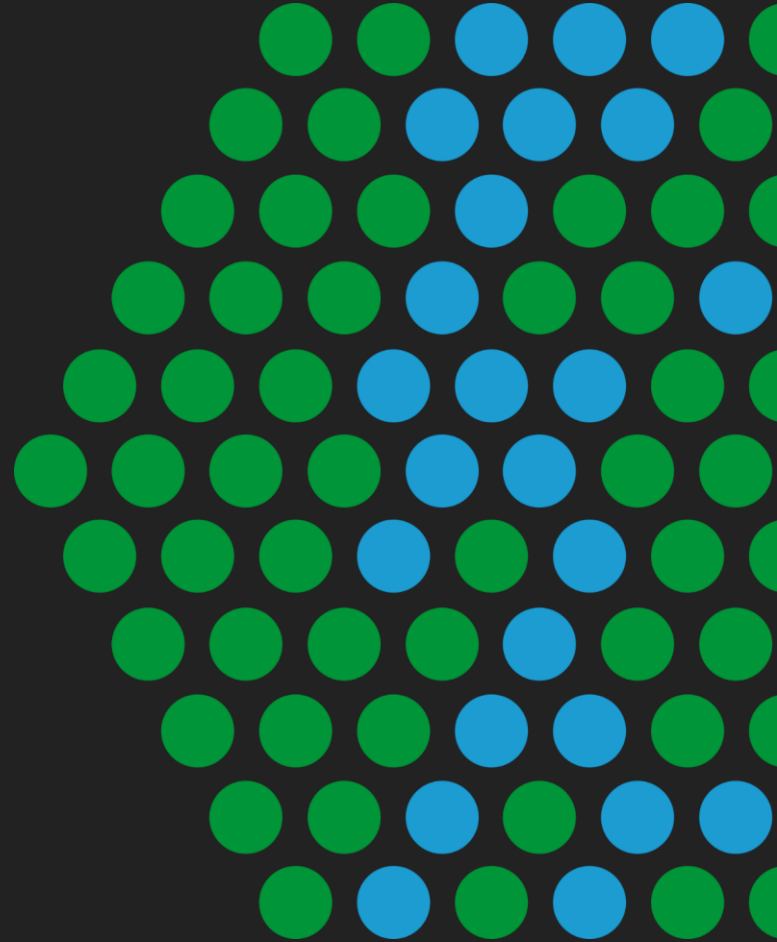
Workflow Across Teams



Consolidates team workflows and use cases across ADC and API Management

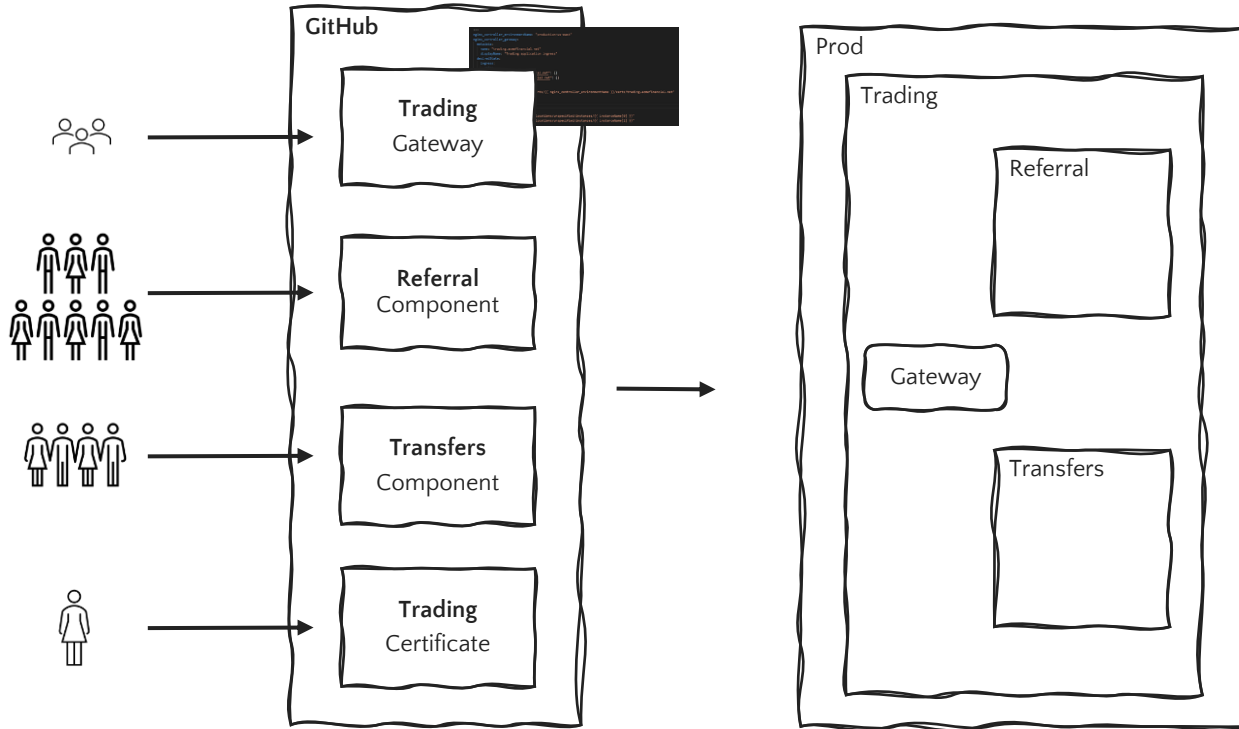


Deploy NGINX PLUS



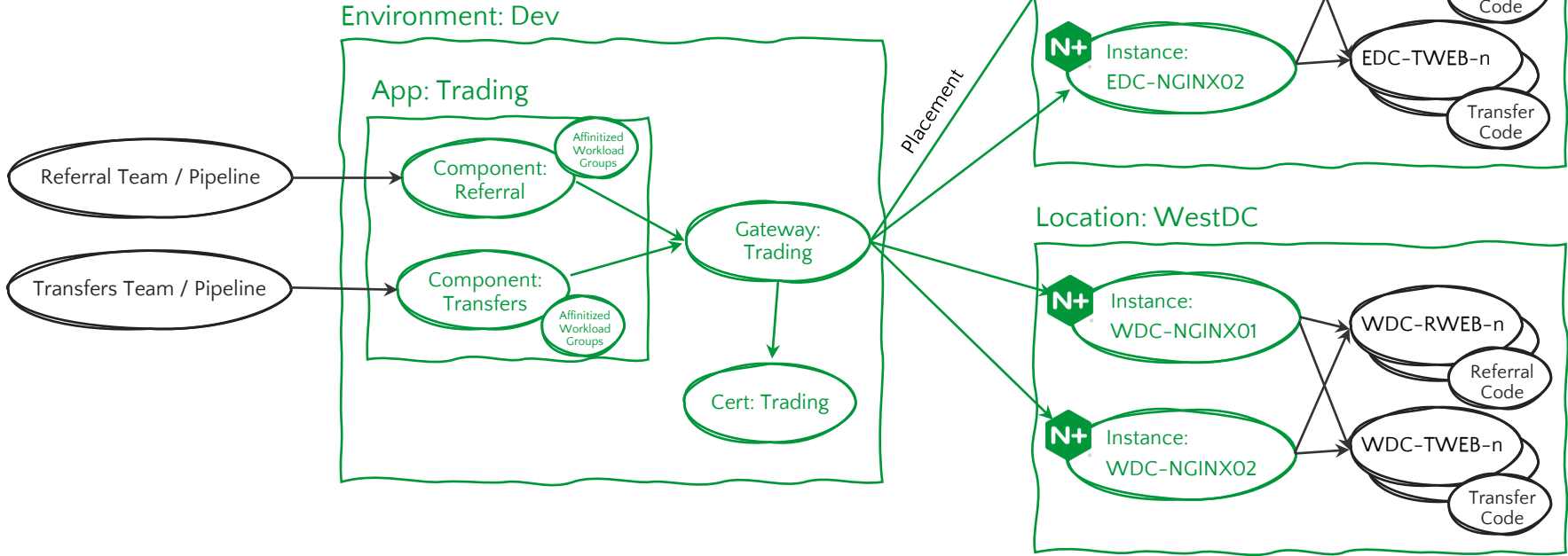
Pipeline Build of Config

ECOSYSTEM PROGRAM



Information Architecture

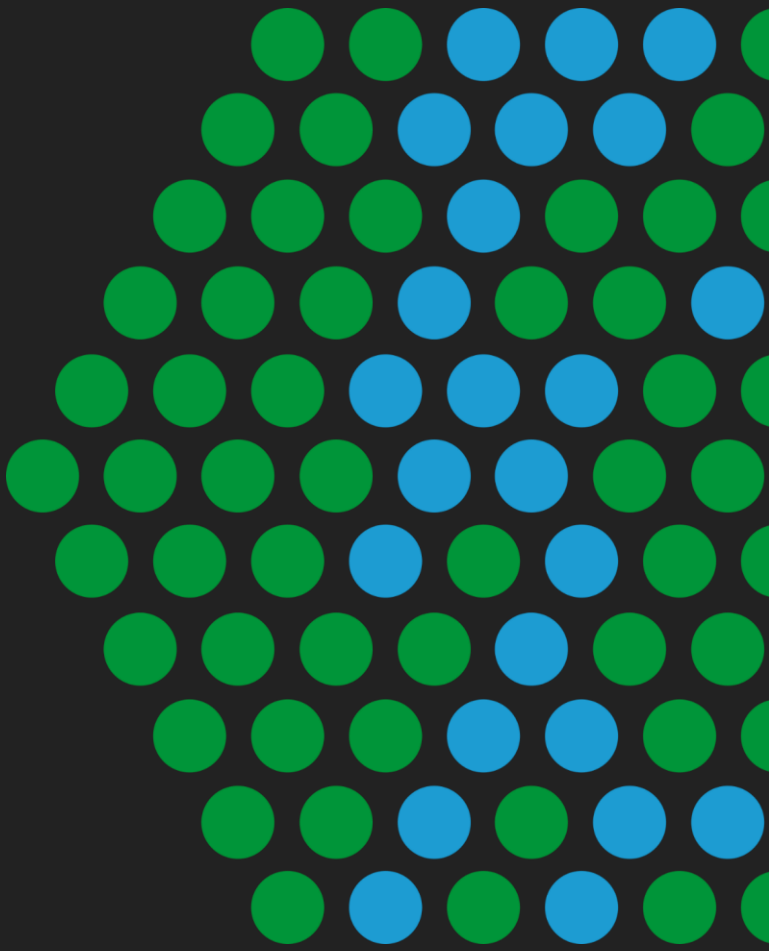
ENABLING THE WORKFLOWS





Deploy Configurations

FROM VALIDATION TO PRODUCTION



Automate the Toil, Shorten Release Cycles

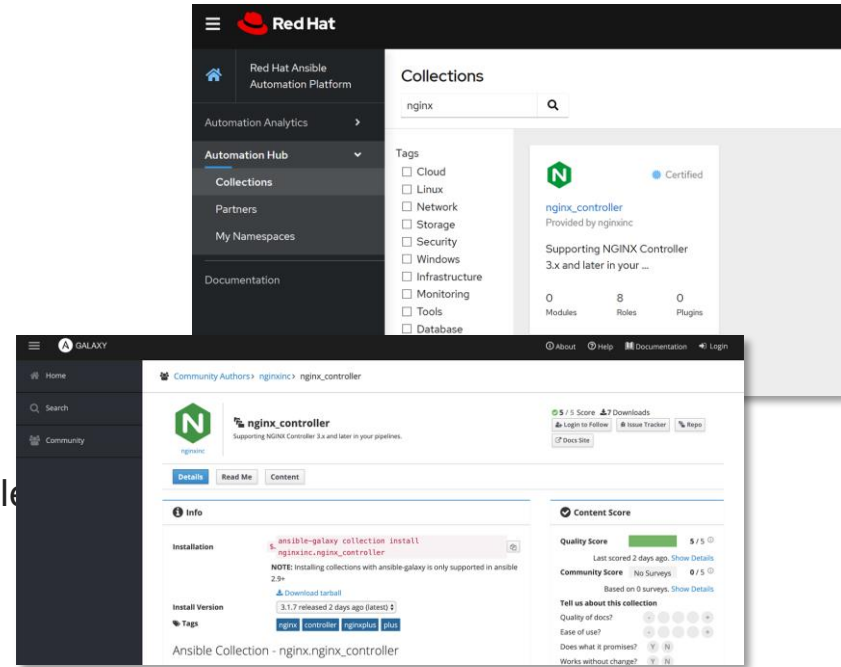
WITH ANSIBLE, NGINX CONTROLLER & NGINX PLUS

Roles in Ansible Galaxy

- NGINX OSS / Plus / Unit
- *Coming soon!* NGINX App Protect

Certified Collection in Galaxy and Ansible Automation Platform

- Deploy your NGINX Plus instances with Ansible
- Manage your NGINX Plus instances with NGINX Controller





AnsibleFest

October 13-14, 2020 | Virtual Experience



Q&A



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