Monitoring as Code and Dynatrace

JL Lormeau Septembre 2021

dynatrace

dynatrace

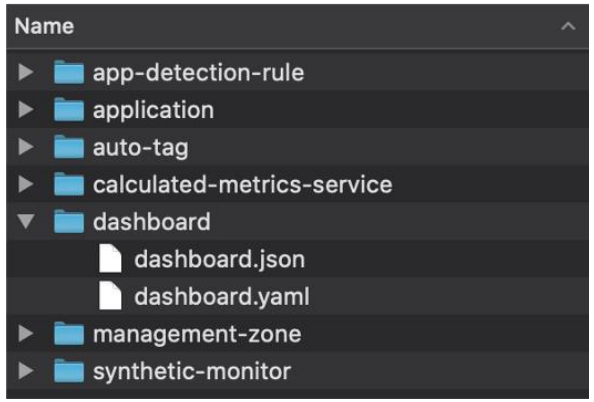
ACE

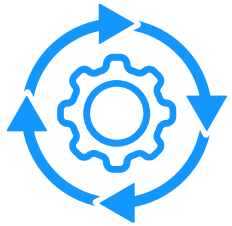
SERVICES

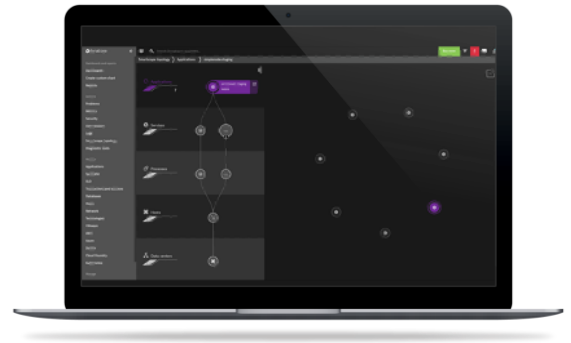
Use Cases

For Dynatrace Admin

Use Case 1 = Use Monaco to OnBoard all your applications from a generic template







1

Use a Monaco template for a new application onboarding

2

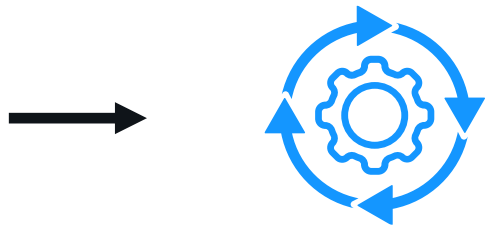
Run Monaco with the parameter of this application

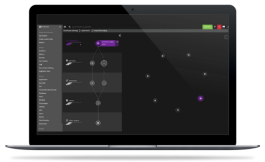
3

Monaco will deploy the config based on this template

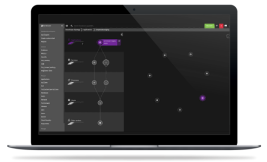
For Dynatrace Admin
Use Case 2 = Update all your tenant

- projects
  - ace
    - app-detection-rule
    - application
    - auto-tag
    - calculated-metrics-service
    - dashboard
    - management-zone
    - synthetic-monitor
  - infrastructure
    - auto-tag
    - request-attributes
    - synthetic-location

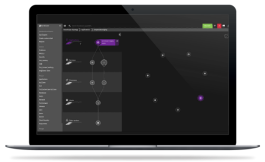




Environment 1



Environment 2



Environment n

1

Define your config in a Monaco project

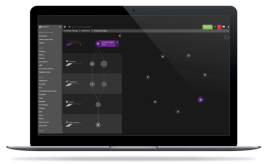
2

Use Monaco to apply this config to 1 or more environments

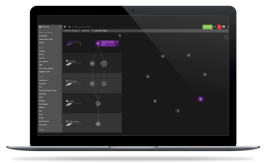
3

Monaco will synchronize the config to all environments

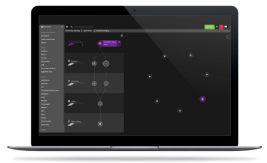
For Dynatrace Admin
Use Case 3 – Backup all your Json configuration for all your tenants



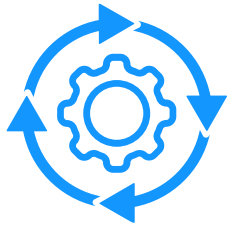
Environment 1



Environment 2



Environment n



- alerting-profile
- anomaly-detection-metrics
- app-detection-rule
- application
- application-mobile
- application-web
- auto-tag
- calculated-metrics-service
- conditional-naming-host
- conditional-naming-processgroup
- conditional-naming-service
- custom-service-java
- dashboard
- extension
- kubernetes-credentials
- maintenance-window
- management-zone
- notification
- request-attributes
- synthetic-location
- synthetic-monitor

1

Define your config in a Monaco project

2

Use Monaco to backup all your json configuration file

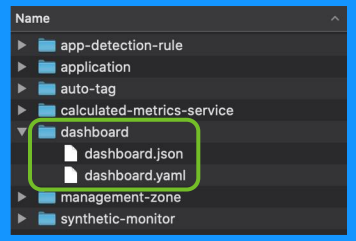
For SRE
Use Case 4 =« self service » monitoring – manage your configuration from git

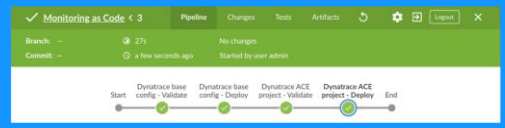
As an SRE, I need a dashboard to visualize my Service Level Objectives for my project!

gitops

```
config:
   - application-overview: "kubernetes-dashboard.json"

application-overview:
   - name: "My application overview"
   - time: "-6h"
   - management ZoneId: "/ace/management-zone/management-zone-prod.id"
   - managementZoneName: "/ace/management-zone/management-zone-prod.name'
```





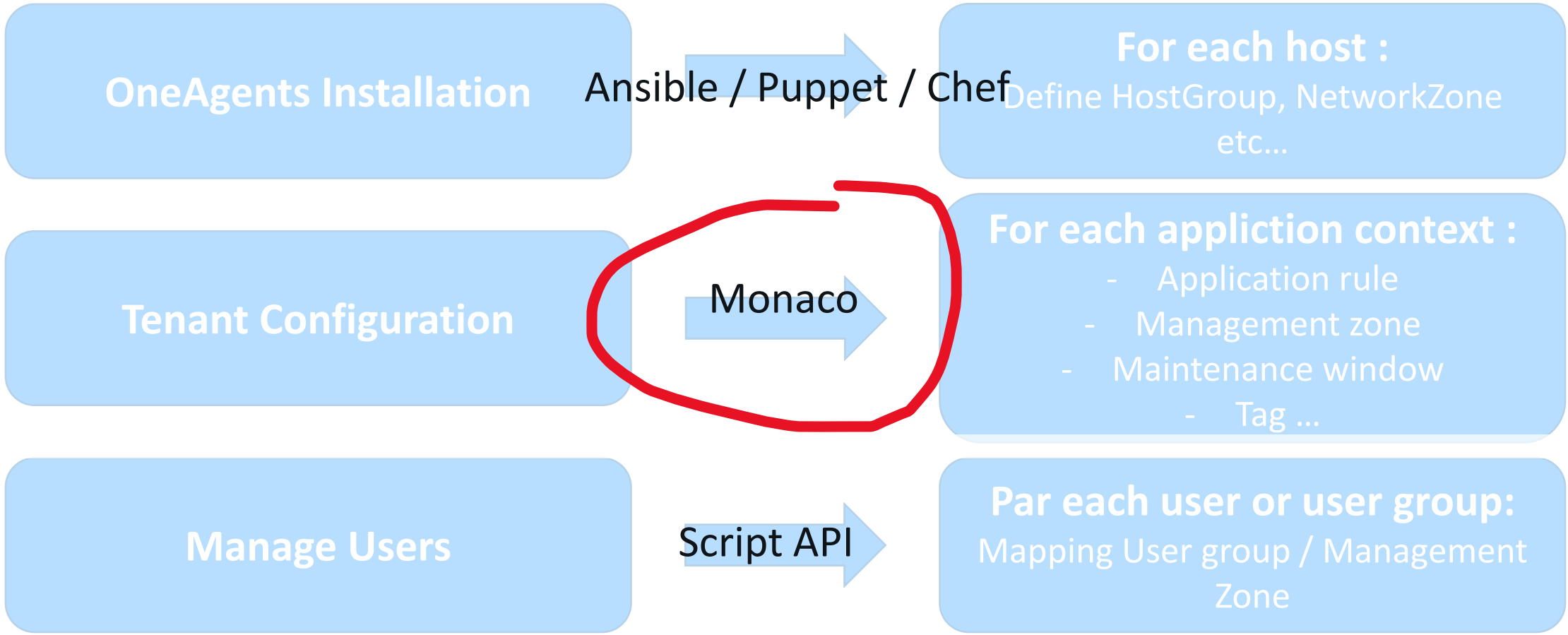
1. Define your dashboard in a file
2. Store your dashboard definition along with your application code
3. Run Monaco through pipeline
4. Monaco configures Dynatrace

Modify the json

Trigger by git

Overview

Onboarding Path



Monaco

- Access to Dynatrace API

➔Monaco allows you to deploy the configuration json on each environment.

➔Monaco replaces the long lines of code for importing these configs via API.

Advantage over API scripts

- Easy to use
- Idempotent
- Creation
- Update

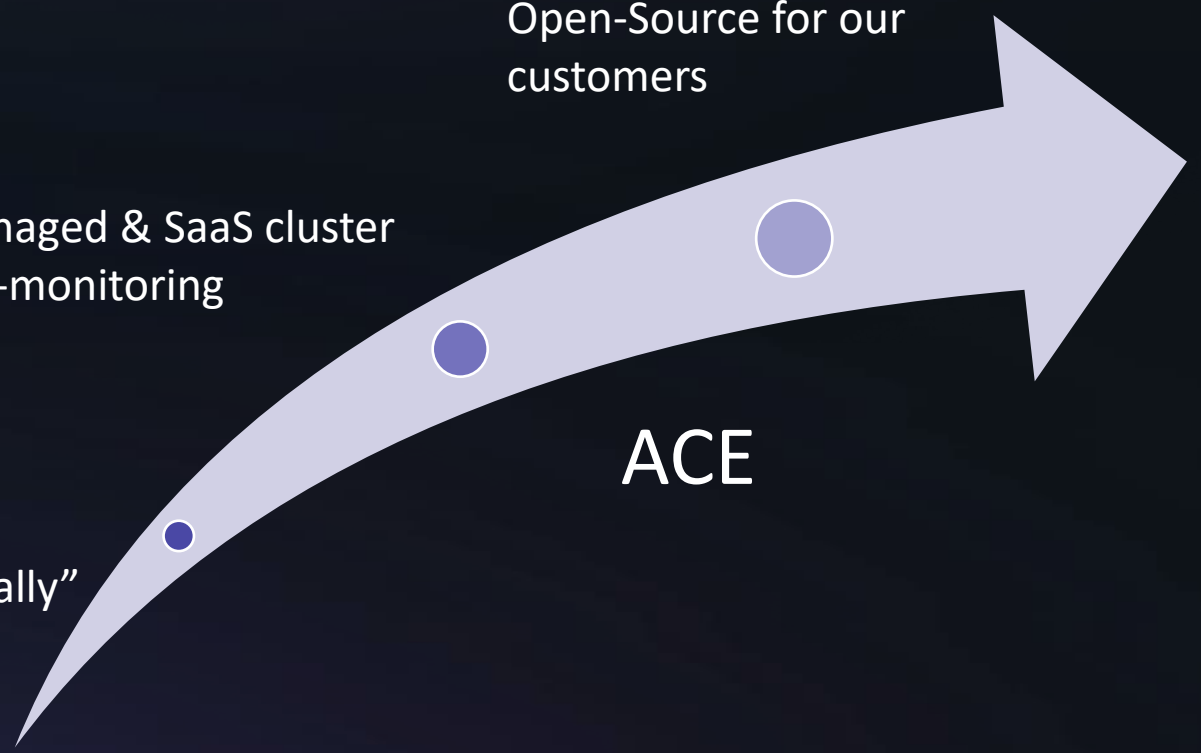
Manages API request limitations

API update management (no need to rewrite the code)

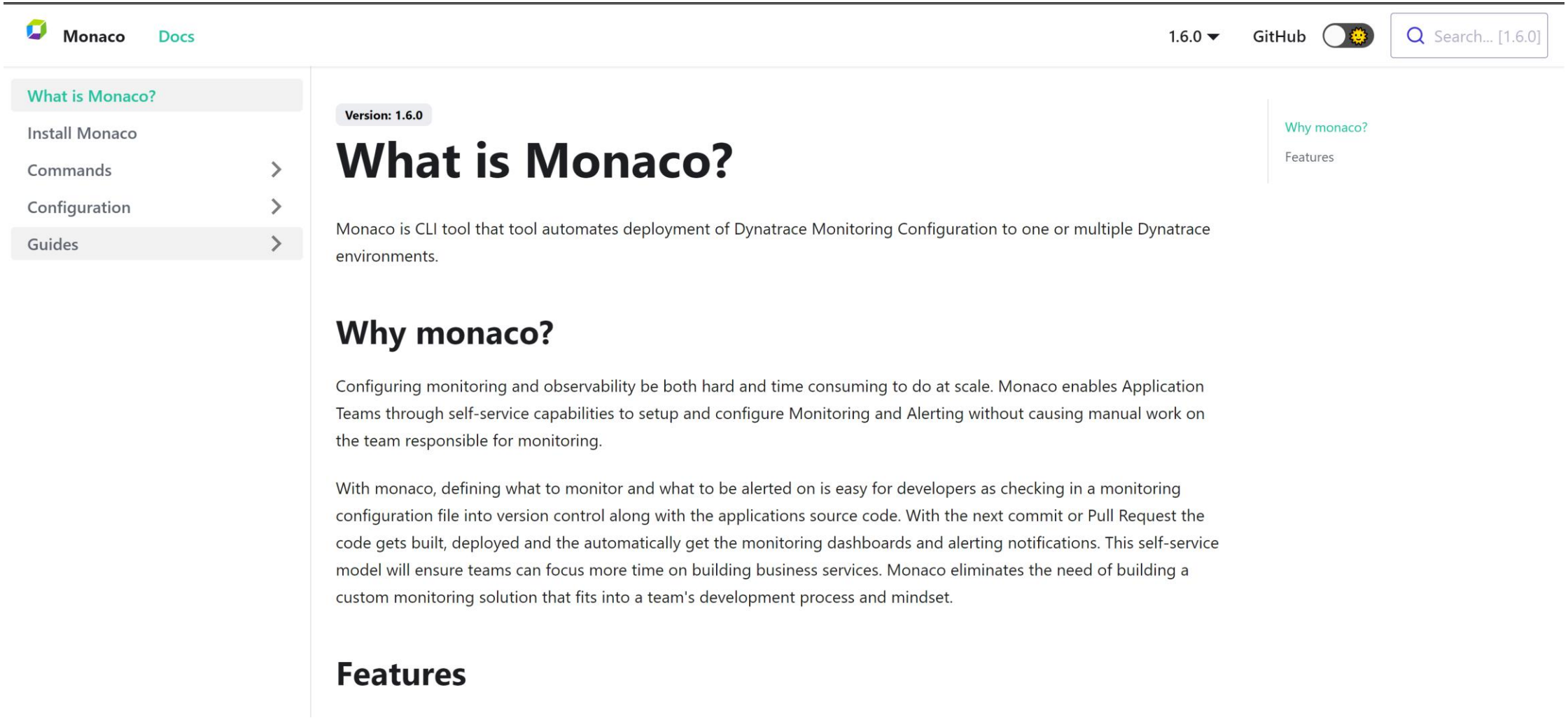
Integrated ID correlation. No need to write lines of code to pass IDs as parameters.

Dynatrace community

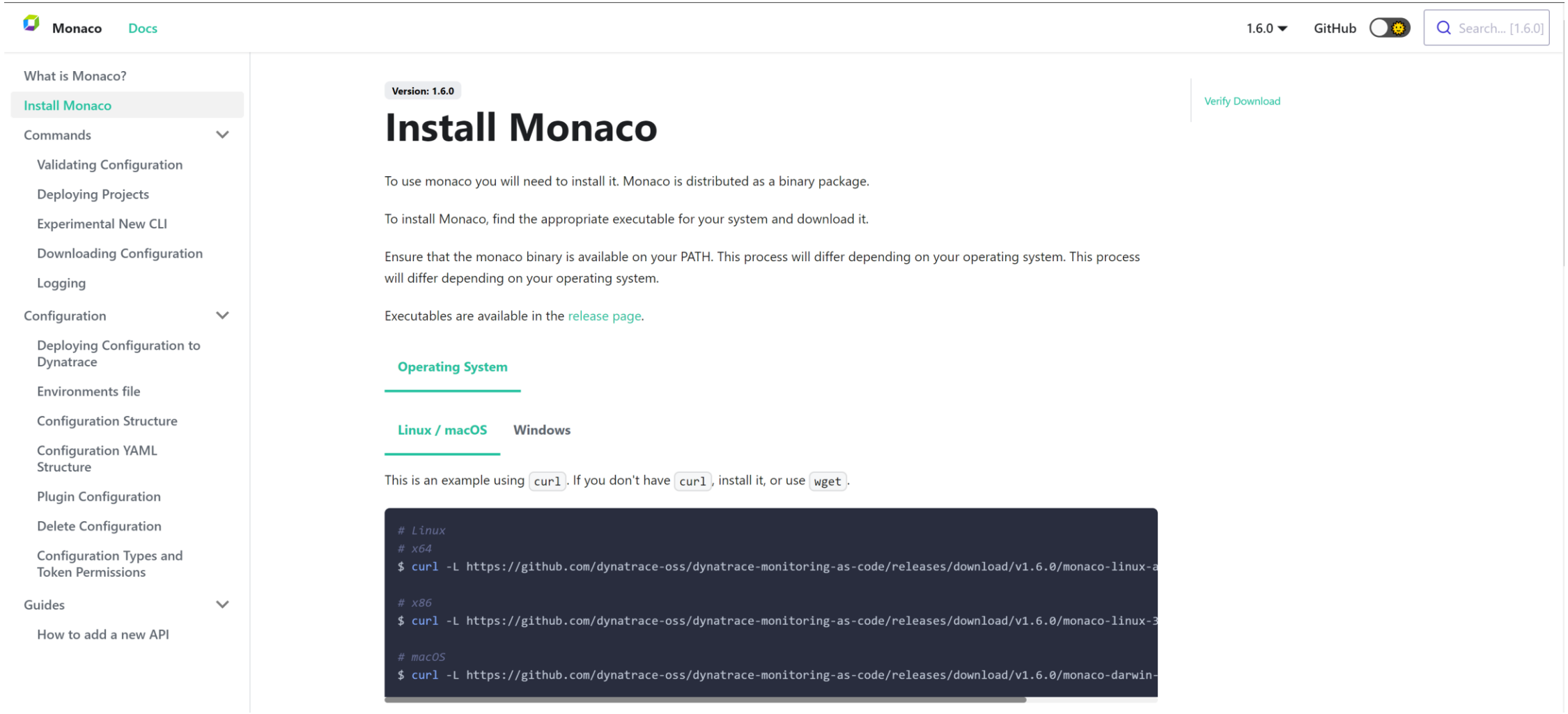
We have the same needs as you!



https://dynatrace-oss.github.io/dynatrace-monitoring-as-code



https://dynatrace-oss.github.io/dynatrace-monitoring-as-code/installation



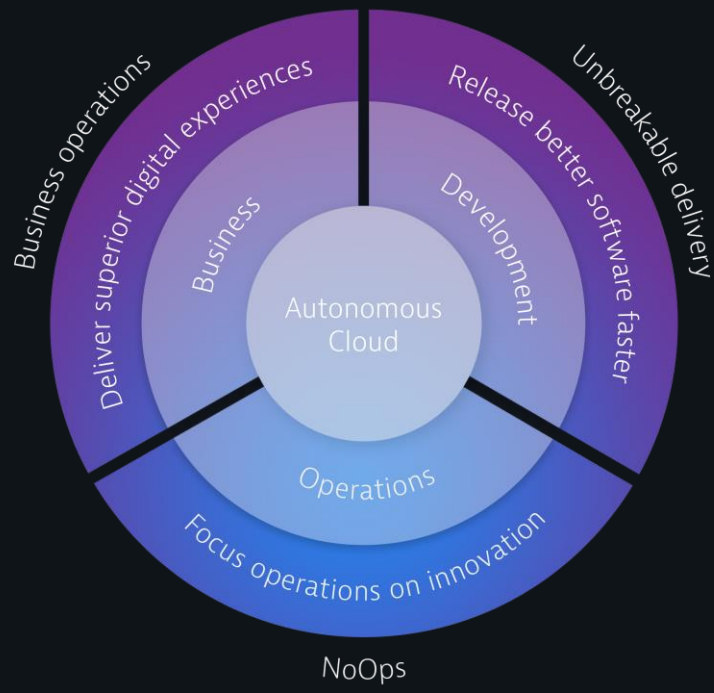
Installation

- Linux or windows - no particular prerequisite
- Can be done on an activegate
- Monaco must have access to the cluster API
  - Monaco => port 443 of the Cluster (which is already an activegate prerequisite)

Autonomous Cloud Enablement

Automation Services

- ✓ Monitoring as a Service
- ✓ Automated Quality Gates
- ✓ Automated Incident Management
- ✓ Automated Problem Remediation



Like what you saw today?

Get in touch with us and let's talk! ACEServices@dynatrace.com

www.dynatrace.com/services-support/autonomous-cloud-enablement/

Useful links

- What is Monaco? | Monaco (dynatrace-oss.github.io)

- Monitoring-as-code through Dynatrace's Open-Source Initiative | Dynatrace news
- dynatrace-oss/dynatrace-monitoring-as-code: This tool automates deployment of Dynatrace Monitoring Configuration to one or multiple Dynatrace environments. (github.com)

- dynatrace-ace-services/easy-dynatrace-with-monaco: LAB - Getting Started with dynatrace : easy configuration with Monaco (github.com)
- dynatrace-ace-services/quickstart-ace-configurator: Package - Getting Started your automatic configuration with QuickStart-Ace-Configurator (github.com)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