# Monitoring as Code and Dynatrace

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## **Main 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



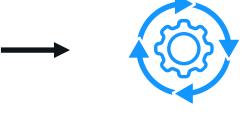
Monaco will deploy the config based on this template

## For Dynatrace Admin Use Case 2 = Update all your tenant





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





**Environment 1** 





**Environment 2** 

**Environment n** 



Define your config in a Monaco project



Use Monaco to apply this config to 1 or more environments



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** 



**Define your config** in a Monaco project



Use Monaco to backup all your json configuration file

- 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

#### For SRE



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

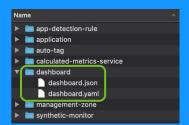
As an SRE, I need a dashboard to visualize my Service Level Objectives for my project!



- name: "My application overview"

application-overview:









**Define your dashboard** in a file

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

- management ZoneId: "/ace/management-zone/management-zone-prod.id" - managementZoneName: "/ace/management-zone/management-zone-prod.name

- Store your dashboard definition along with your application code
- **Run Monaco** through pipeline

Monaco configures **Dynatrace** 

Integrated to the pipeline

## Overview



#### **Onboarding Path**

OneAgents Installation Ansible / Puppet / Chef<sub>Define HostGroup, NetworkZone etc...</sub>

**Tenant Configuration** 

Monaco

For each appliction context:

- Application rule
- Management zone
- Maintenance window
  - Tag ...

**Manage Users** 

Script API

Par each user or user group:

Vlapping User group / Management
Zone



#### **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

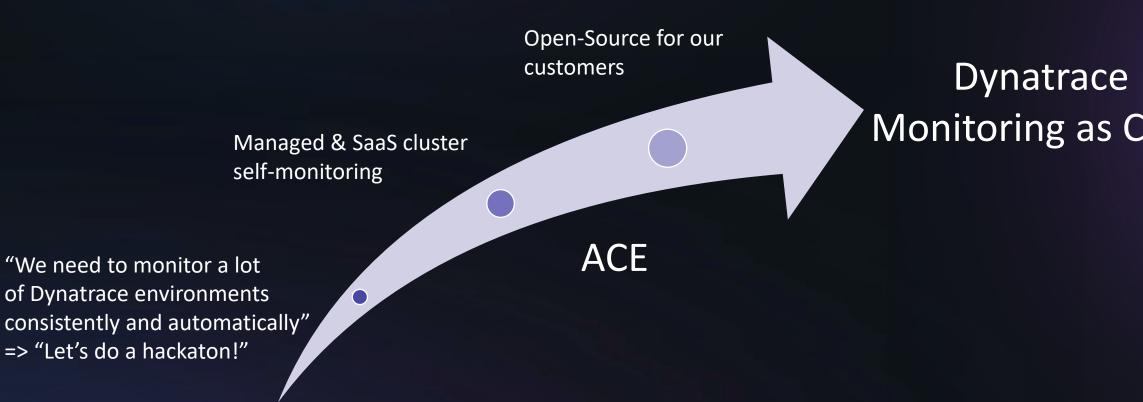
API update management (no need to rewrite the code)

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

# **Dynatrace community**



#### We have the same needs as you!



Monitoring as Code

Dynatrace R&D



Q Search... [1.6.0]

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



#### Why monaco?

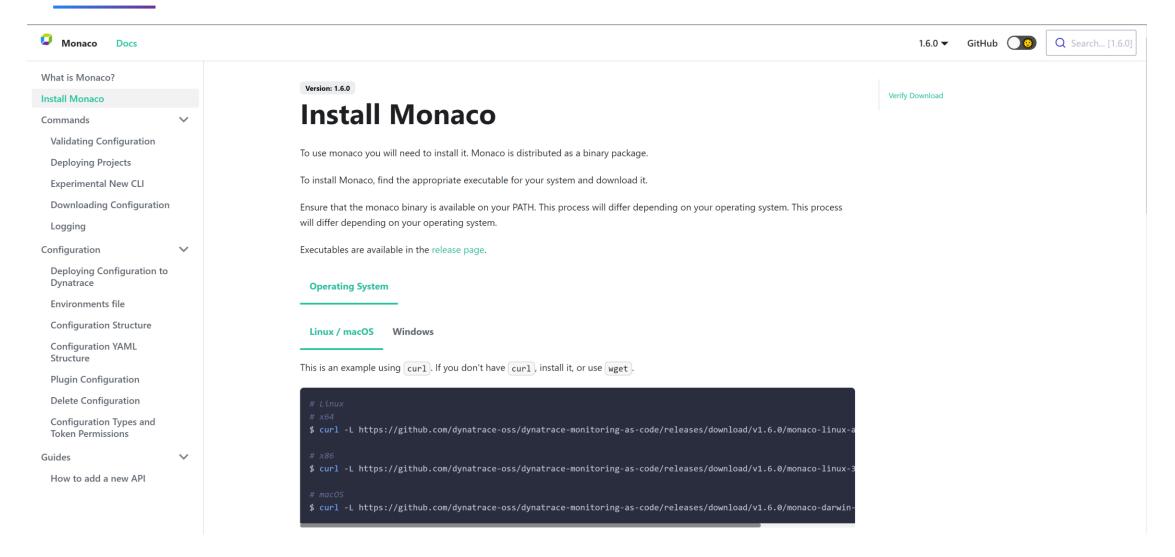
Configuring monitoring and observability be both hard and time consuming to do at scale. Monaco enables Application Teams through self-service capabilities to setup and configure Monitoring and Alerting without causing manual work on the team responsible for monitoring.

With monaco, defining what to monitor and what to be alerted on is easy for developers as checking in a monitoring configuration file into version control along with the applications source code. With the next commit or Pull Request the code gets built, deployed and the automatically get the monitoring dashboards and alerting notifications. This self-service model will ensure teams can focus more time on building business services. Monaco eliminates the need of building a custom monitoring solution that fits into a team's development process and mindset.

#### **Features**



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



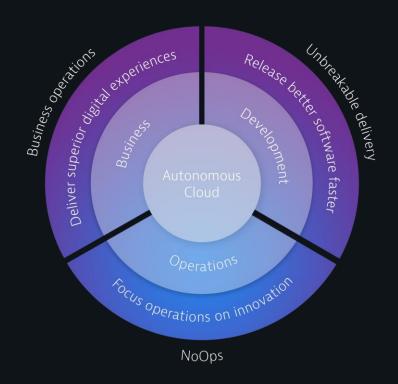


#### Installation

- Linux or windows no particular prerequisite
- Can be installed on an activegate or on your laptop ©
- Monaco must have access to the cluster API
  - Monaco => port 443 of the Cluster OR to the Activegate (depends to your architecture : tcp9999 or 443)

#### **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

15



#### **Useful links**

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

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

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

