

Deployment Automation & Self-Healing with Dynatrace & Ansible

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Who we are

- **Bianca** has been using Ansible since June of 2017. She began her Red Hat journey in the Getting Started team, where she provided installation/configuration support for Ansible Tower to new users. Since October 2018 Bianca has been working within the Partner Engineering program, where she and her team assist with certifying modules, plugins and roles created by Red Hat business partners. She also teaches the monthly Ansible Essentials webinar.



- **Jürgen** is a Technology Strategist at Dynatrace. He is passionate about cloud technologies, self-healing applications, and automation. His job in the Innovation Lab is to research emerging technologies and to leverage them in his daily work. He loves sharing his experience with others by speaking at conferences and meetups around the globe. When he is not working, you can find him outdoors, biking, hiking or running.





See what makes Dynatrace unique



Automated

Zero-touch configuration,
continuous discovery and mapping,
effortless problem identification
and root cause



Full stack

Understand all the relationships and
interdependencies, top to bottom,
for your complex enterprise
cloud ecosystem



AI-powered

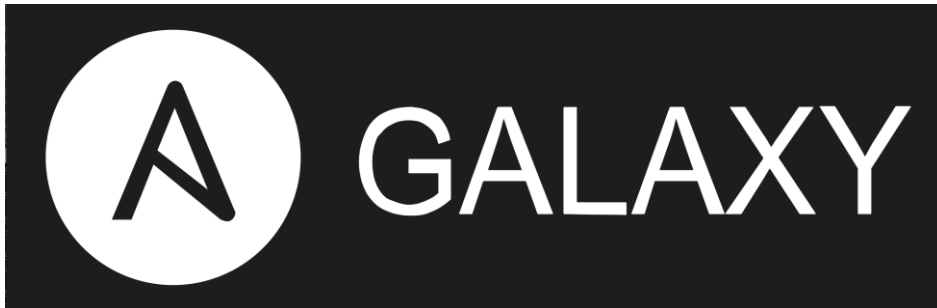
Deterministic, causation-based AI
for real-time insights, actions and
actionable answers, not just
more data

(Deployment) automation is key



Automate Deployments of Dynatrace OneAgent

- Automation is key to roll out hundreds of agents in only a couple of minutes to hundreds of hosts
- Dynatrace Role: <https://galaxy.ansible.com/dynatrace/oneagent>



The screenshot shows the Ansible Galaxy web interface. On the left is a dark sidebar with navigation links: Home, Search, Community, My Content, and My Imports. The main content area has a dark header with the 'A GALAXY' logo. Below the header, a breadcrumb trail reads 'Community Authors > dynaTrace > oneagent'. The role card for 'OneAgent' by 'dynatrace' is displayed, with a description: 'This Ansible role installs Dynatrace OneAgent.' Below the card are 'Details' and 'Read Me' buttons. Further down, the text 'OneAgent-Ansible' is followed by 'This Ansible role installs Dynatrace OneAgent on Linux systems.' and a 'Download' section stating 'The role is available via:' with links to 'Ansible Galaxy' and 'GitHub'.



Dynatrace OneAgent Role Example

- hosts: `webservers`

Group of all hosts you want to monitor with Dynatrace

tasks:

- include_role:
 name: `Dynatrace.OneAgent`

Dynatrace role taking care of installation of agent

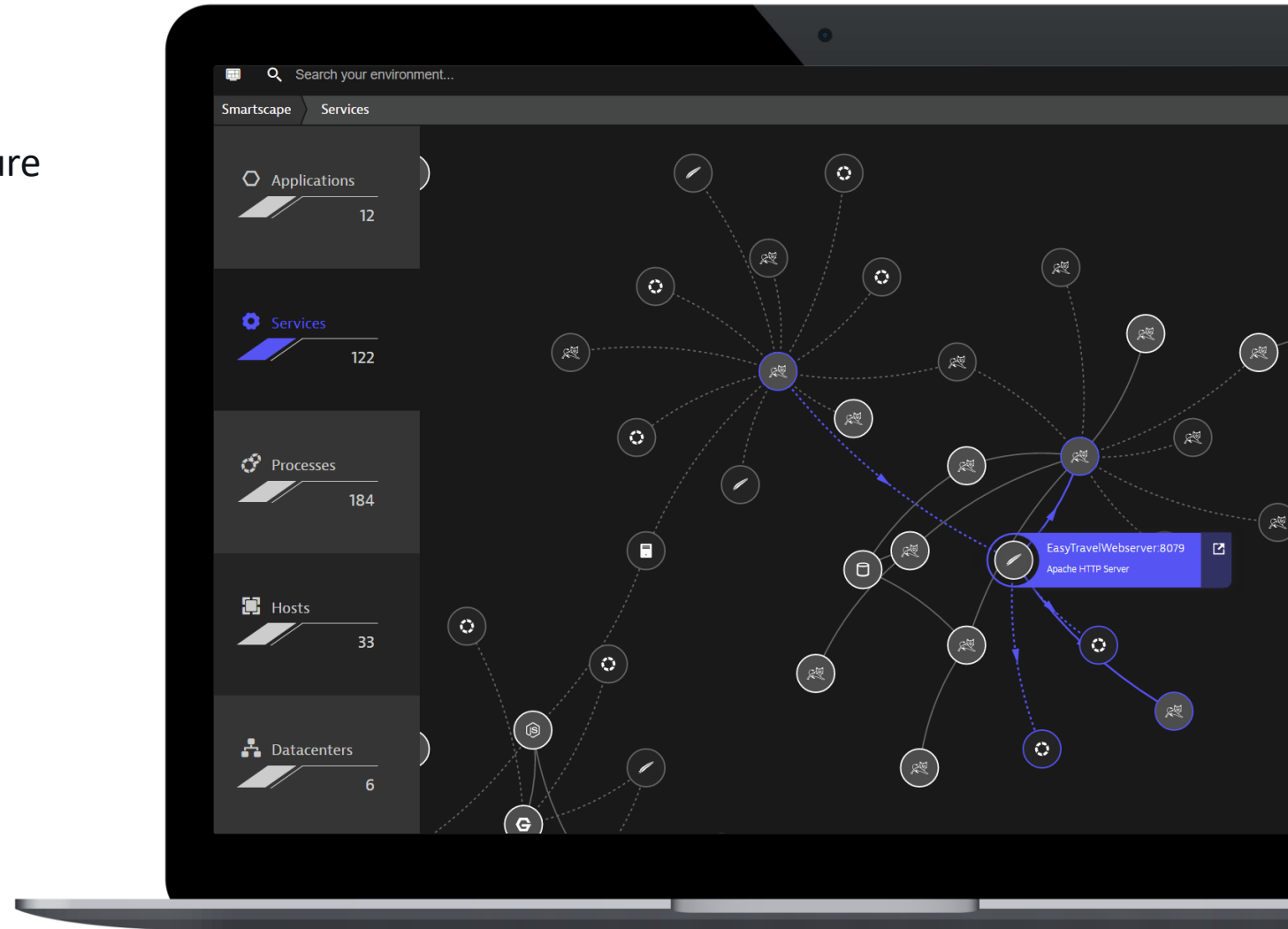
vars:

oneagent_installer_script_url:

`"https://mytenant.live.dynatrace.com/api/v1/deployment/installer/agent/unix/default/latest?Api-Token=mytoken&arch=x86&flavor=default"`

Full-Stack End-to-end Visibility

1. Deploy the OneAgent on your infrastructure
2. Dynatrace automatically discovers all
 - Processes
 - Services
 - Applications
3. Get full insight into your environment
4. Have the AI detect anomalies for you and provide root cause of detected problems



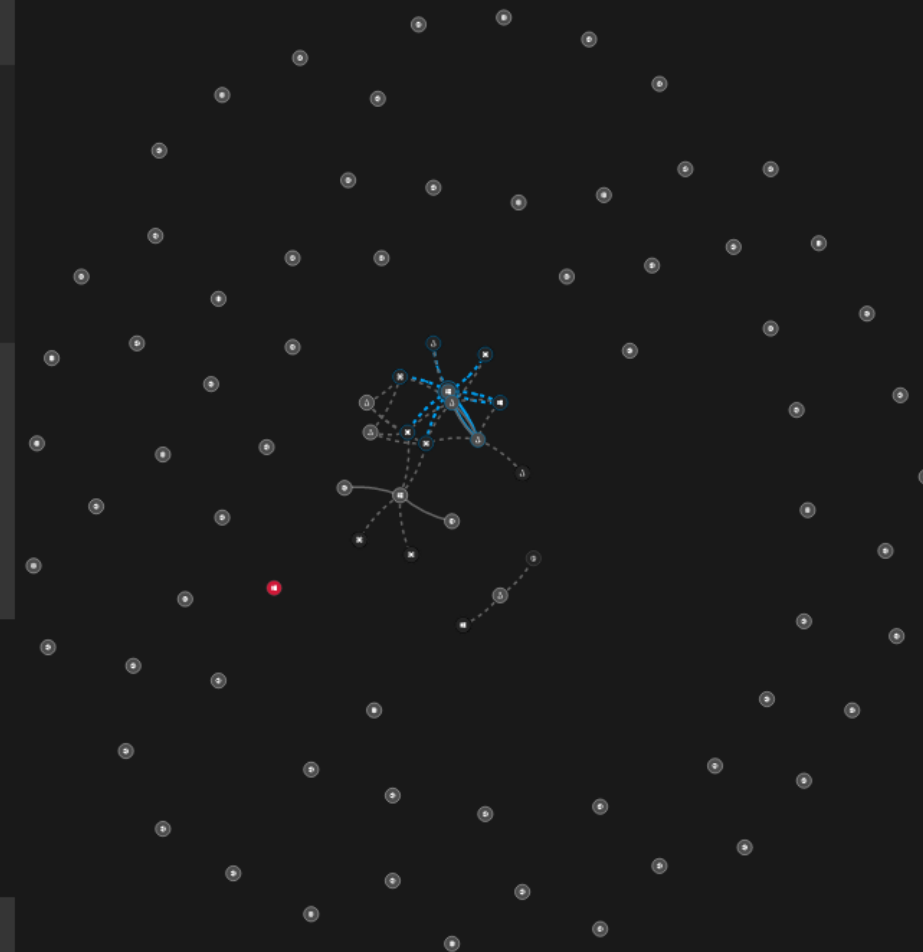
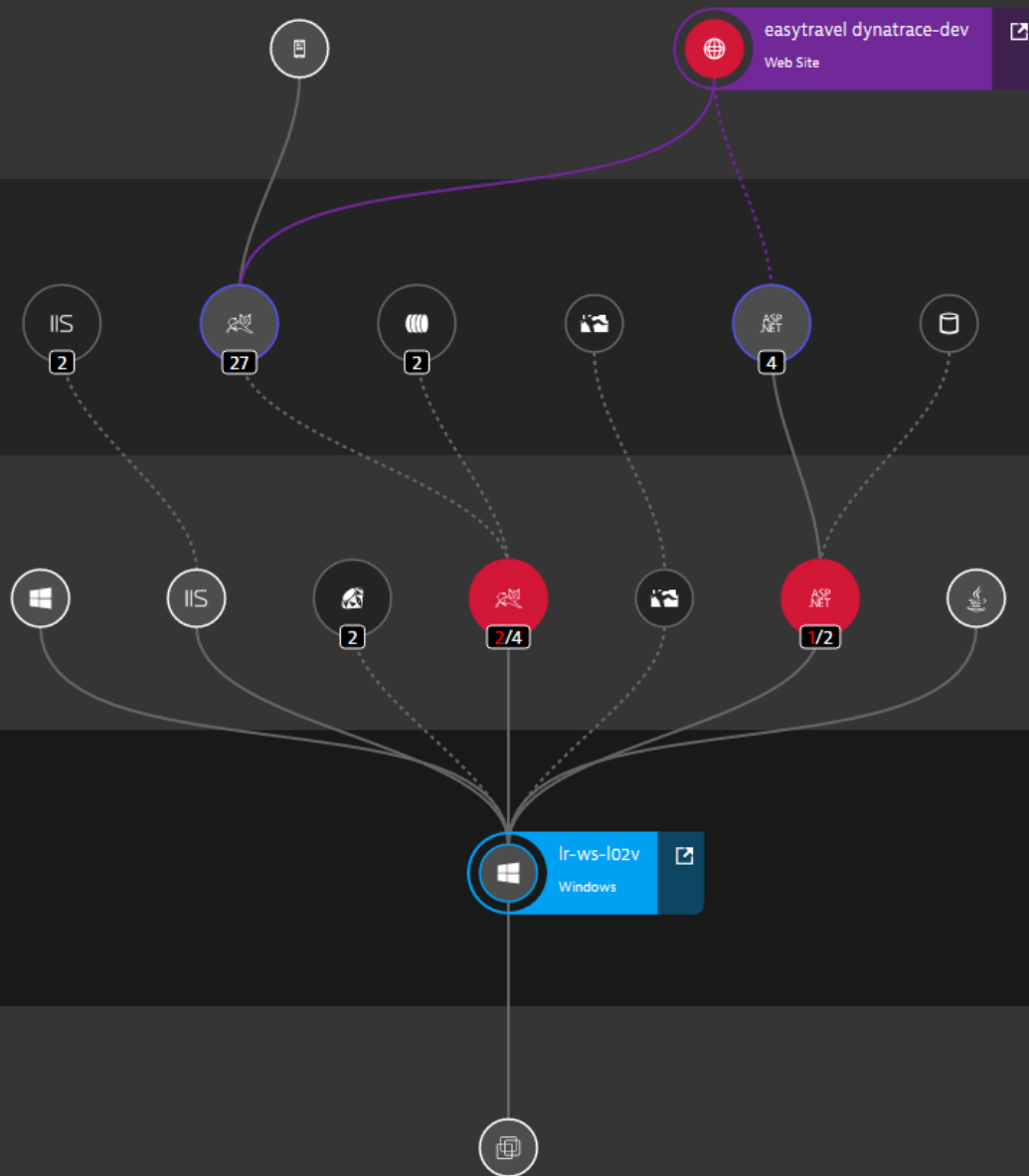
Applications

Services

Processes

Hosts

Datacenters



„We deploy

900 Dynatrace agents

in

5 minutes

with Ansible“

„We deploy

Dynatrace to about

1300 servers

in

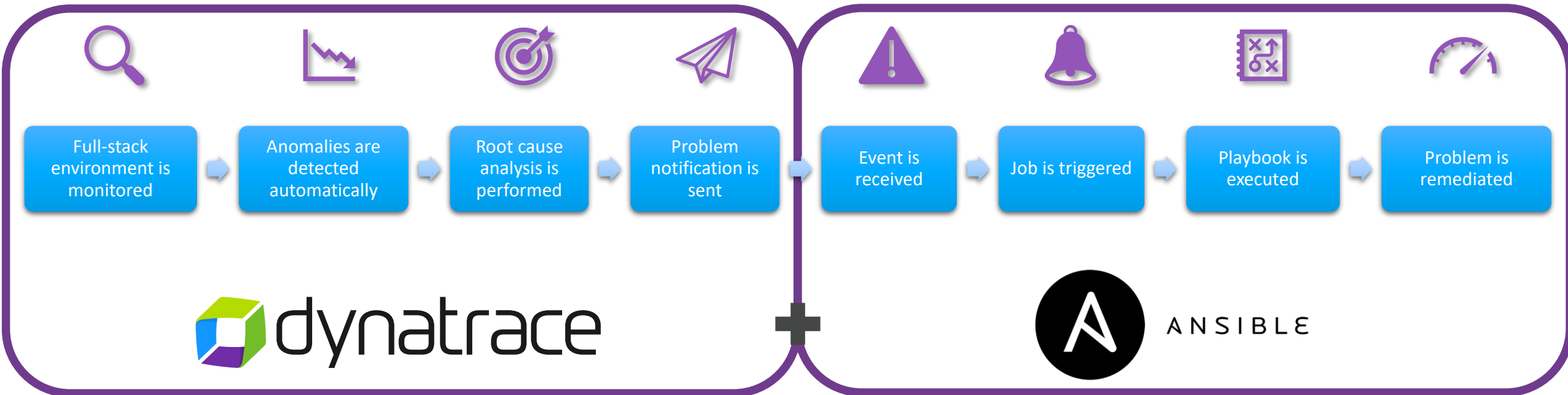
a couple of minutes

with Ansible“

Self-healing applications with Dynatrace & Ansible

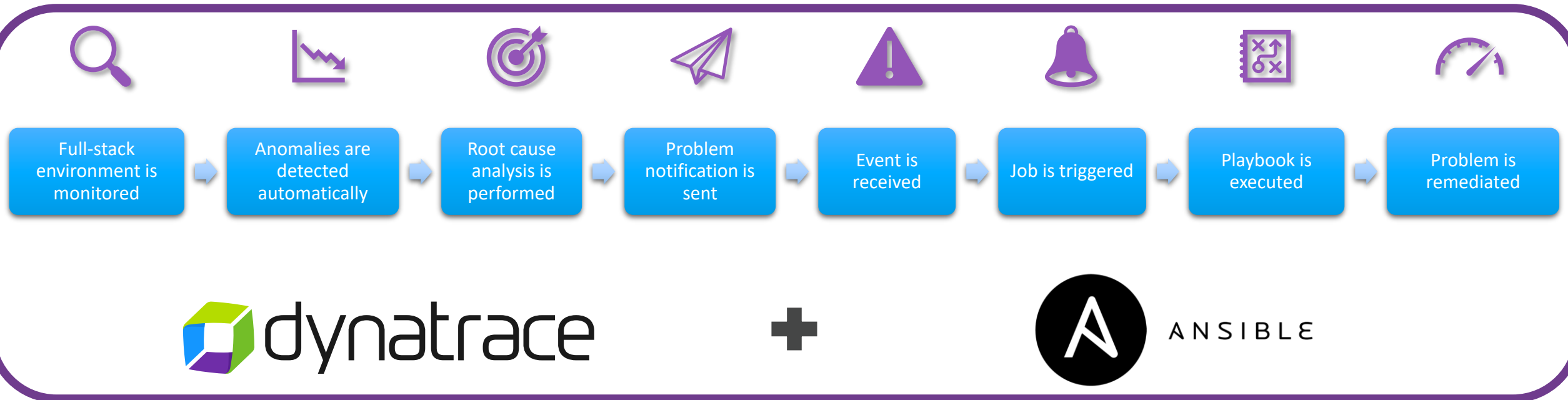


How to enable auto-remediation





How to enable auto-remediation



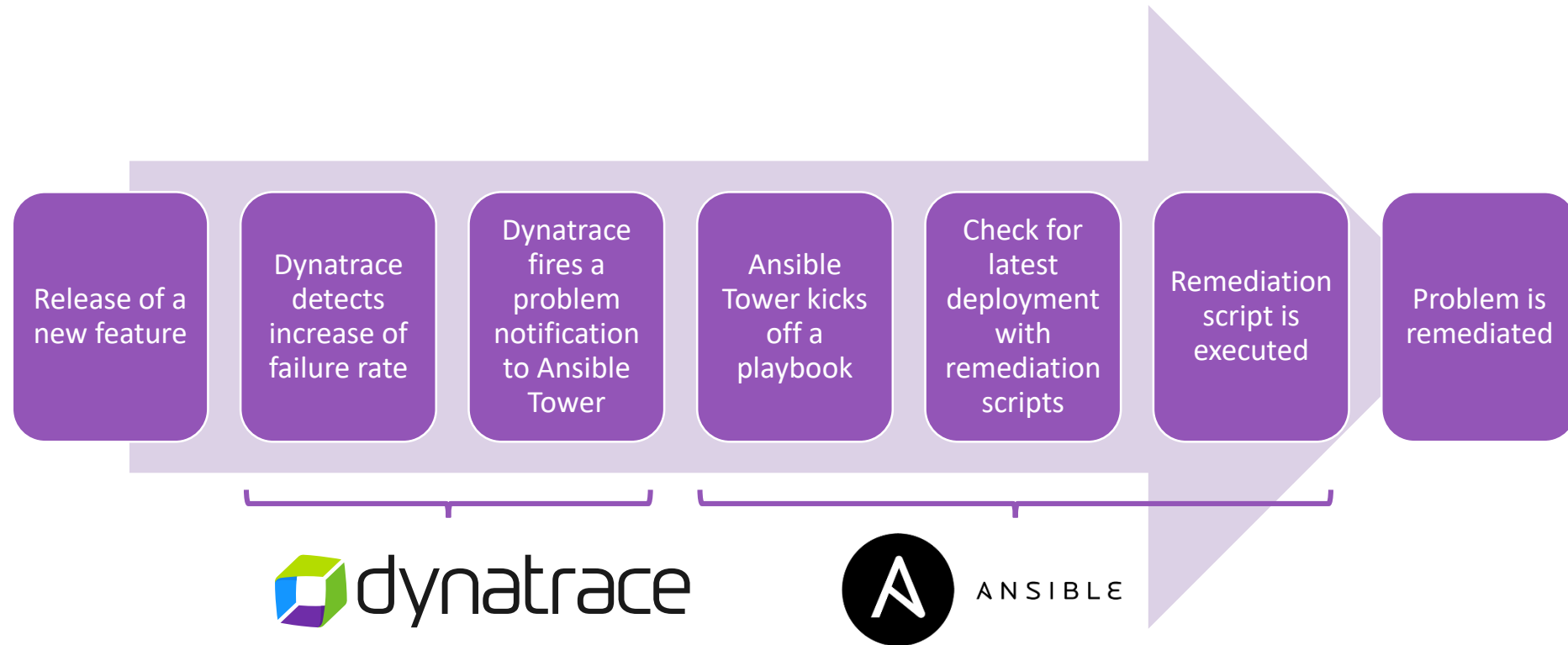


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Demo Time :)

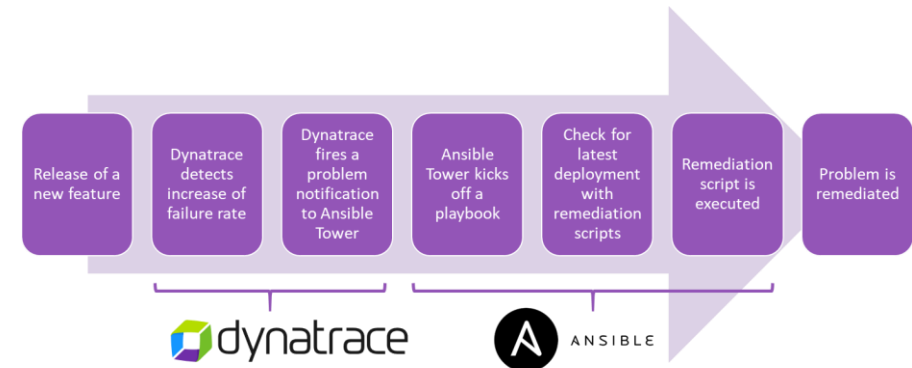
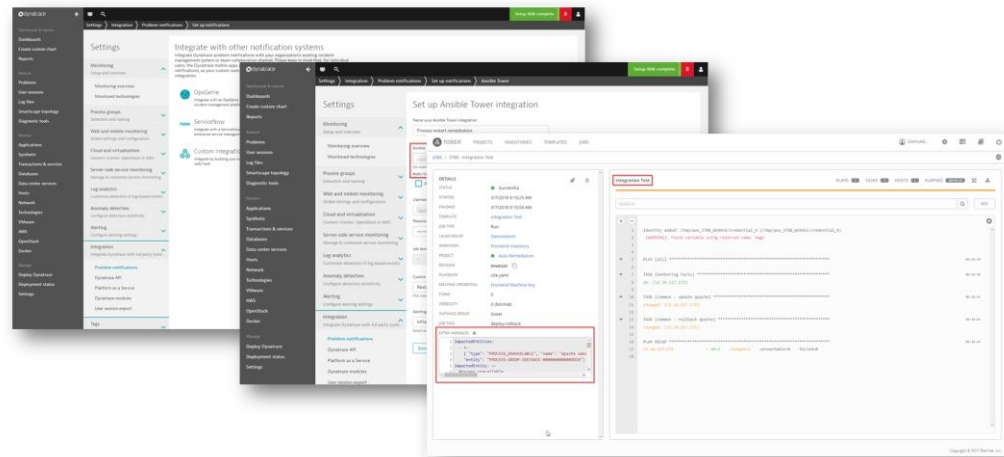
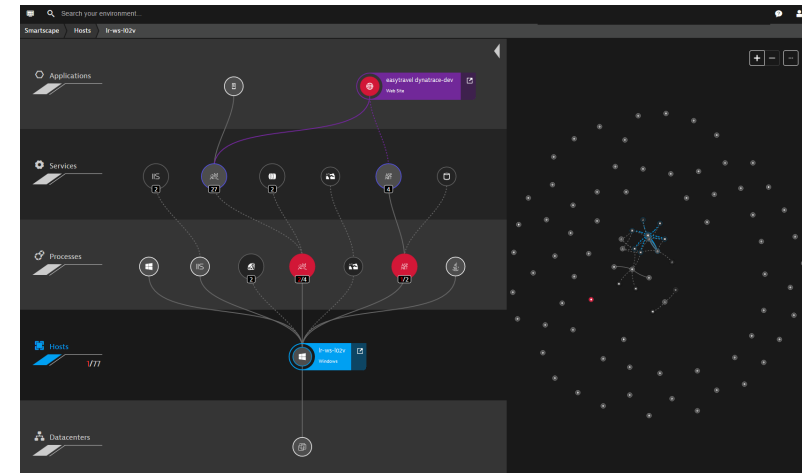
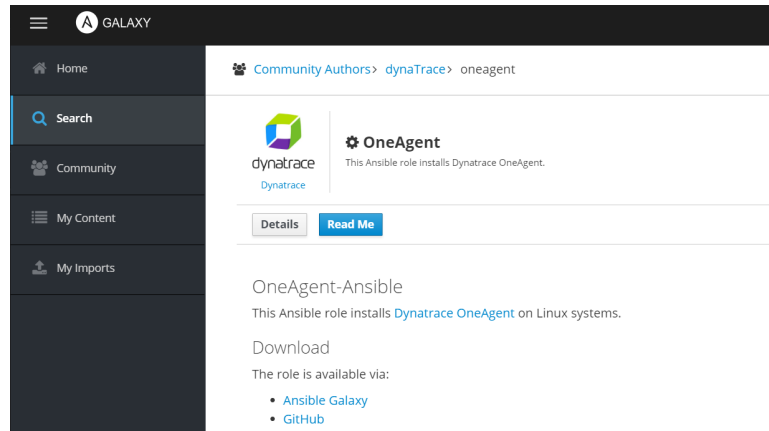


What we have seen in the demo





Summary





Links & Resources

- Set up Ansible Tower with Dynatrace to enable your self-healing applications
<https://www.dynatrace.com/news/blog/set-up-ansible-tower-with-dynatrace-to-enable-your-self-healing-applications/>
- Self-healing: Ansible Tower fixes Dynatrace-detected problems in real time
<https://www.dynatrace.com/news/blog/self-healing-ansible-tower-fixes-dynatrace-detected-problems-in-real-time/>
- Enable self-healing applications with Ansible and Dynatrace
<https://www.ansible.com/blog/enable-self-healing-applications-with-ansible-and-dynatrace>
- Dynatrace roles in Ansible Galaxy
<https://galaxy.ansible.com/dynatrace> and
https://galaxy.ansible.com/dynatrace_innovationlab
- Dynatrace free trial
<http://dynatrace.com/trial>



Get ready to be amazed
in 5 minutes or less

dynatrace.com/trial

