IBM **Turbonomic**

Application Resource Management integration with **Red Hat Ansible**

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Turbonomic **continuously assures application performance at the lowest cost.** It supports a broad ecosystem of automation tooling to give customers flexibility and choice as they integrate application resource management into their operational systems and processes. Ansible is one such option.
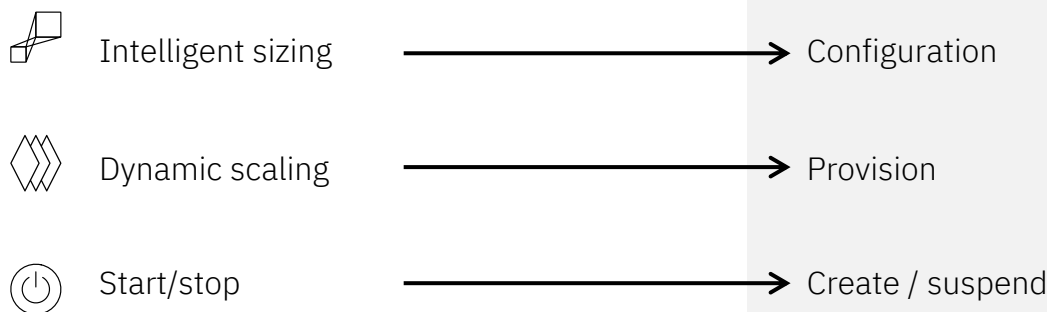
Turbonomic

Decision automation

Assure Application Performance. Software (not people) continuously makes complex resourcing decisions to ensure all applications get exact resources they need to perform.

Turbonomic is a **dynamic automation platform** that matches real-time application demand to infrastructure supply, unlocking elasticity at every layer of the stack.

Turbonomic infuses AI and Automation to determine the right resourcing changes for each app.

Turbonomic actions...

Intelligent sizing ⟶ Configuration

Dynamic scaling ⟶ Provision

Start/stop ⟶ Create / suspend

Turbonomic customers can *optionally* use **Ansible** to automate actions and ensure that each step of Turbonomic action execution is handled in the way that best suits their organization and business needs.

Ansible

Process automation

Automate IT easily. Users create 'playbooks'— blueprints of automation tasks—that they can use to create, provision, configure or manage applications and infrastructure.

Ansible is a **sequential automation tool** that gives operators and administrators (people) a way to define and implement workflows through code.
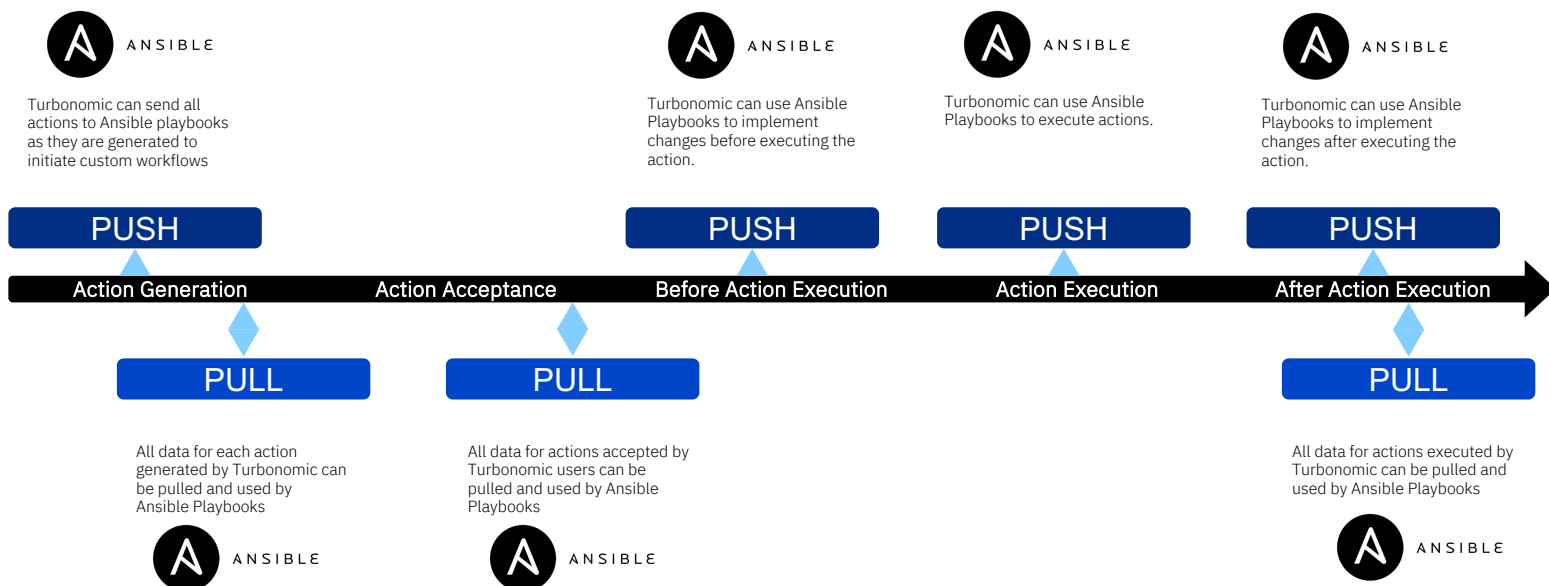
Ansible makes sure changes are executed the right way for each app.

...customized execution via **Ansible** Playbooks

With **Turbonomic** **Ansible** customers can **ensure** the changes they execute through playbooks support continuous application **performance at the lowest cost**, while **maintaining compliance**.
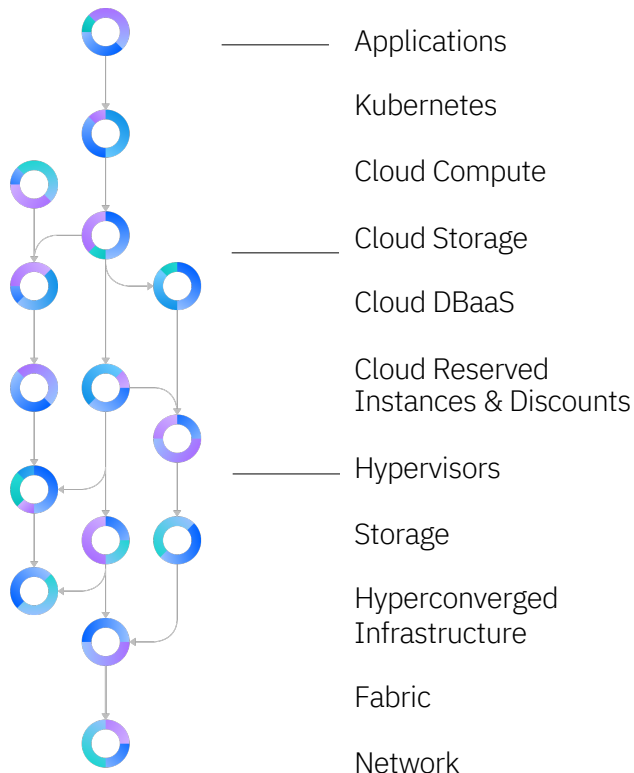
Turbonomic action lifecycle supports end-to-end automation

Turbonomic integrates with *all* tools in your environment. Ansible can be **optionally** leveraged at all points of the Turbonomic action lifecycle to execute and integrate the actions as suits your business.

ANSIBLE

Turbonomic can send all actions to Ansible playbooks as they are generated to initiate custom workflows

ANSIBLE

Turbonomic can use Ansible Playbooks to implement changes before executing the action.

ANSIBLE

Turbonomic can use Ansible Playbooks to execute actions.

ANSIBLE

Turbonomic can use Ansible Playbooks to implement changes after executing the action.

PUSH   **PUSH**   **PUSH**   **PUSH**

Action Generation   Action Acceptance   Before Action Execution   Action Execution   After Action Execution

PULL   **PULL**   **PULL**

All data for each action generated by Turbonomic can be pulled and used by Ansible Playbooks

All data for actions accepted by Turbonomic users can be pulled and used by Ansible Playbooks

All data for actions executed by Turbonomic can be pulled and used by Ansible Playbooks

ANSIBLE   ANSIBLE   ANSIBLE

App-first, full-stack automation unlocks elasticity

Turbonomic generates AI based resourcing decisions for every layer of the application stack and **automates those decisions**. **Ansible** can make sure each of those actions are executed the right way, as per defined business process workflow.

Applications

Kubernetes

Cloud Compute

Cloud Storage

Cloud DBaaS

Cloud Reserved Instances & Discounts

Hypervisors

Storage

Hyperconverged Infrastructure

Fabric

Network

KEY DIFFERENTIATORS

— **Application Performance Assurance -aware and full stack** dynamic resourcing improves end-user experience, while reducing cost.

— **Multidimensional analysis** ensures resourcing actions are trustworthy and safe to automate.

— **Operationalize automation** by integrating actions into pipelines, processes, and workflows. Executed the way you want with **Ansible**.