

Ein Blick in die (nahe) Zukunft



\$ whoami

Tim Grützmacher

Senior Consultant

@ Computacenter since 2016

- started in Big Data Hadoop
 - Big Data needs Automation
- 6+ years in DevOps & Automation
- Puppet, Terraform, but mostly Ansible
- Contributor to ansible-builder and multiple Ansible Collections

















AAP gets bigger

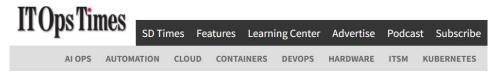
IaC, CaC and now PaC

Press releases > Red Hat Introduces "Policy as Code" to Help Address

Red Hat Introduces "Policy as Code" to Help Address AI Complexities at Scale

As a capability of Red Hat Ansible Automation Platform, automated policy as code will aim to drive policy-specific automation across the hybrid cloud, bringing governance and greater consistency to the AI boom and traditional IT operations alike

DENVER - RED HAT SUMMIT 2024 - May 7, 2024 - Red Hat, Inc., the LATEST - VIDEOS/PODCASTS open source solutions, today announced automated policy as code, a Al CLOUD CHICA CONTINUOUS TESTING future versions of Red Hat Ansible Automation Platform. The capabili and compliance across hybrid cloud estates that increasingly include possible to adhere to changing internal or external requirements and sprawling infrastructure in support of scaling AI workloads.



Red Hat to introduce 'policy-as-code' in Ansible **Automation platform**

Published: May 9th, 2024 - David Rubinstein

Red Hat is introducing 'policy-ascode' with its Ansible Automation platform to help enforce compliance within hybrid cloud environments that are leveraging an increasing number of applications powered by



Red Hat Plans to Add Policy-as-Code Tools to Ansible Platform

DevOps.com

number of Al applications. Another step in automation maturity, polici Red Hat Plans to Add Policy-as-Code Tools to Ansible Platform

BY: MIKE VIZARD ON MAY 13, 2024

Red Hat is previewing a policy-as-code capability for the Ansible Automation Platform that promises to make it simpler to apply and enforce governance and compliance policies.

Demonstrated at the Red Hat Summit and AnsibleFest 2024 conference. Matthew Jones, chief architect for Red Hat Ansible Automation Platform, told conference attendees this capability would, for example, make it possible to enforce policies that prevent artificial intelligence (AI) models from initiating actions beyond the scope of a set of policies defined as code

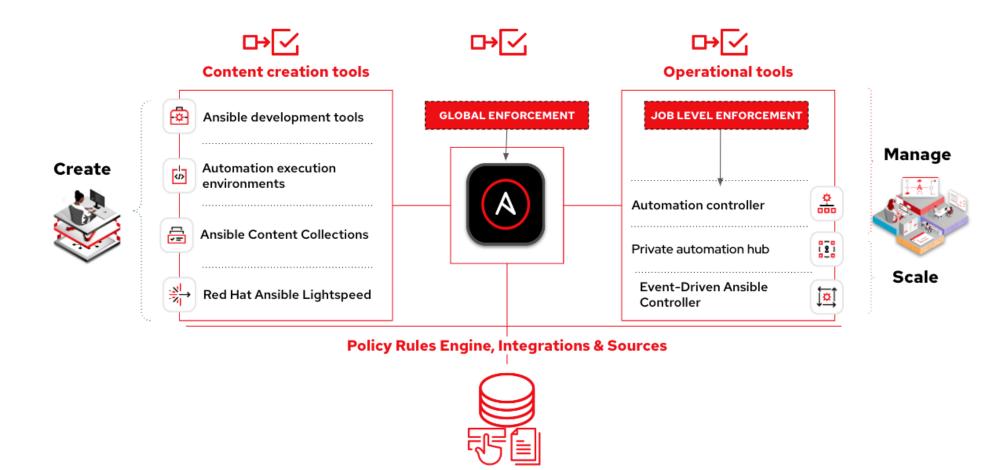
Scheduled to be added to the Red Hat Ansible Automation Platform in the coming months, Red Hat is in effect providing a declarative approach to implementing policy-as-code, in a way that eliminates the need to deploy and master a separate programming framework.

nore rapidly, the need for AI to manage policies across ncing the new capability, Red Hat wrote that "policy as practices into automation code, so that internal tes are built into every process."



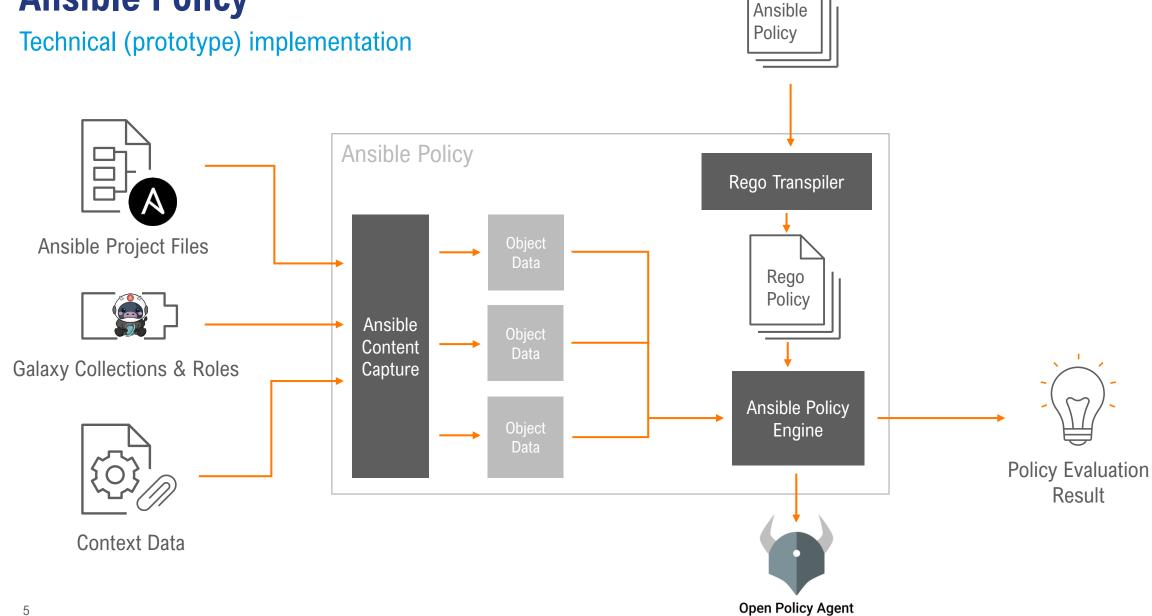
Trusted Automation Supply Chain

Step 1: Policy Enforcement at content creation





Ansible Policy



YAML



Policybook

New type next to playbooks and rulebooks

Different types of Ansible content

- Playbooks Ansible Core
 - How to automate stuff
- Rulebooks Event-Driven Ansible
 - Trigger automation when certain conditions occur
- Policybooks Ansible Policy as Code
 - What is allowed in automation
- Policybooks contain a list of policysets
 - Looks very similar to playbooks, policies key instead of tasks or roles
- Policies decide to run actions by evaluating the condition(s)
 - Targets play, roles or task
 - Conditions support many (but not all/and additional) well-known operators
 - Action can be deny, allow, info, warn or ignore
- Only minimal (and incomplete) documentation available
 - It is tech-preview and will improve over time

```
name: Compliance policies for Ansible automation
hosts: localhost
vars:
   allowed users:
     - ansible
     - postgres
     - ec2-user
policies:
  - name: Check for using become in play
    target: play
    condition: input.become == true
    actions:
      - deny:
          msg: Use become at task-level only!
    tags:
      - compliance
  - name: Check for using become in task
    target: task
    condition:
      any:
        - input.become == true and input.become user not in allowed users
        - input.become == true and input lacks key become_user
    actions:
      - deny:
          msg: Allowed users for are one of {{ allowed_users }}
    tags:
      - compliance
```

Demo

Ansible Policy Walkthrough: Check playbook against a set of policies

https://github.com/TimGrt/anwendertreffen-03-2025-demo



Danke