

# Ansible Policy as Code

Ein Blick in die (nahe) Zukunft



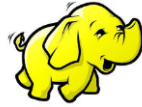
# \$ whoami

## 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



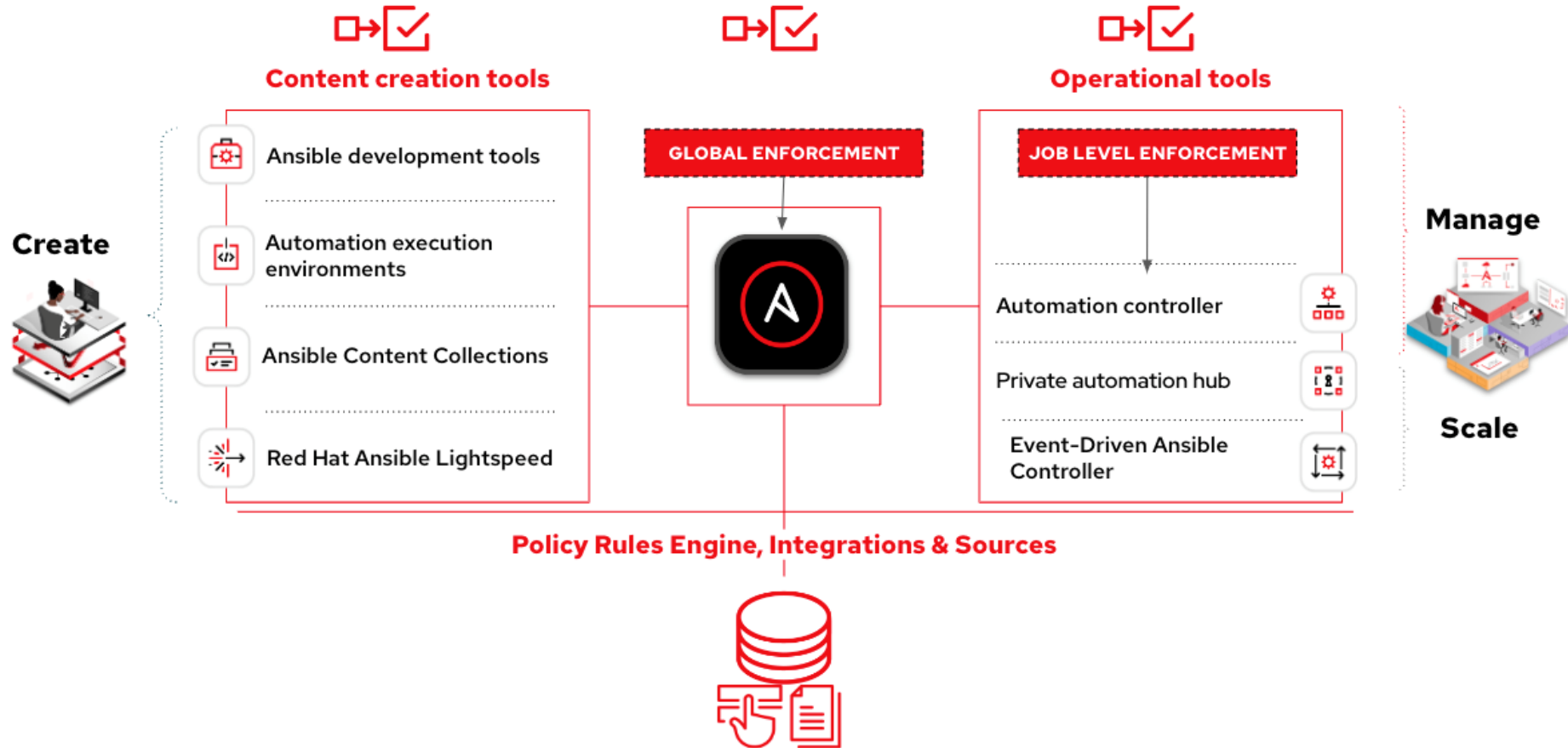
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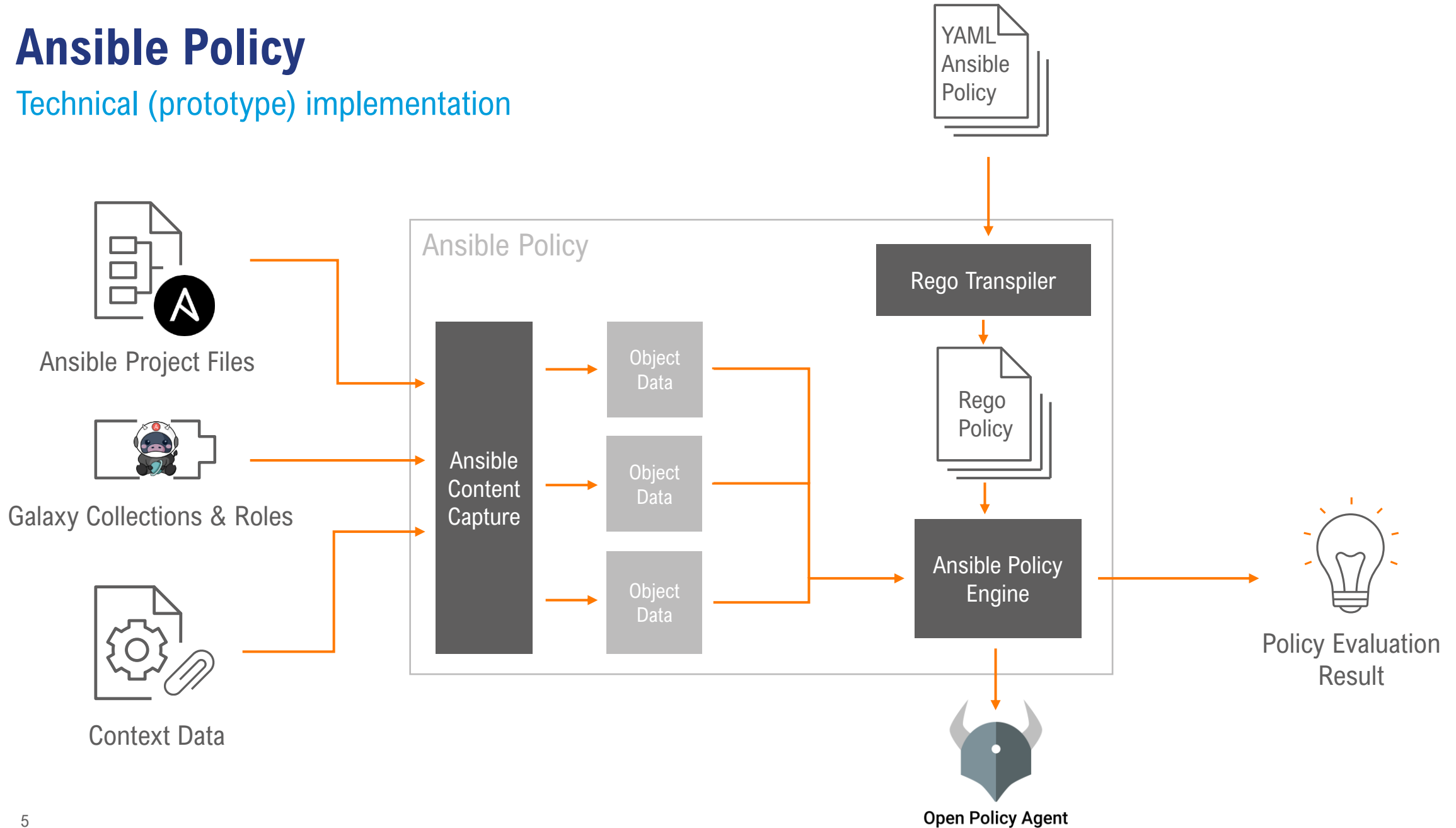
# Trusted Automation Supply Chain

## Step 1: Policy Enforcement at content creation



# Ansible Policy

Technical (prototype) implementation



# 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**

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