



Connect

Automation strategy



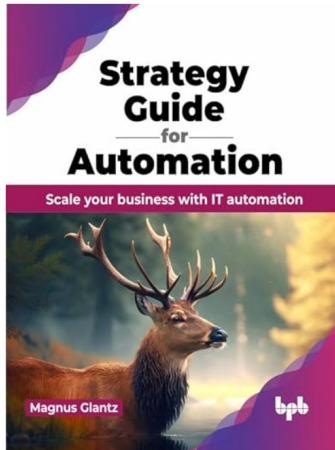
Hello, my name is Magnus

Worked with automation since 2001

Implemented several large global automation projects for tens of thousands of different things

Published author on subject of automation

Principal Specialist Solution Architect
EMEA Ansible launch team, Red Hat





EMEA Ansible Launch team

Red Hat Ansible specialists. Engages to super charge adoption at customers, for free, but are limited resources.

Can help with

- Assessment of maturity, including report
- Creating or assessing an automation strategy
- Development best practices
- AAP implementation best practices
- Security assessments
- Advisor services over a longer period of time
- Proof-of-concepts
- Helping customers to drive adoption of Ansible by delivering hands-on workshops and more.

Implementation

Availability

Security

Adoption best practices

Strategy

Development

Enablement



Implementation

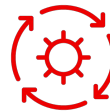
Availability

Security

Challenges

Teams

Solutions



Adoption best practices

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Enablement



Implementation

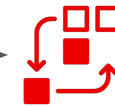
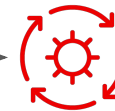
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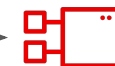
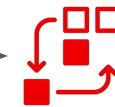
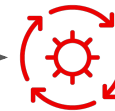
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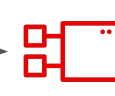
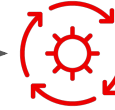
Availability

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Islands of automation :- (

Adoption best practices

Strategy

Development

Enablement



Implementation

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Automation strategy

Adoption best practices

Strategy

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Enablement





Implementation

Availability

Security

Automation strategy

Likely [a good owner]

CIO

CTO

IT director

Budget and
Ownership

Architects

Business
Dev

Service
Owners

Storage

Networking

Windows

Linux

Adoption best practices

Strategy

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Enablement



Implementation

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Automation strategy

Likely [has a business perspective]

CIO

CTO

IT director

**Budget and
Ownership**

Architects

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Adoption best practices

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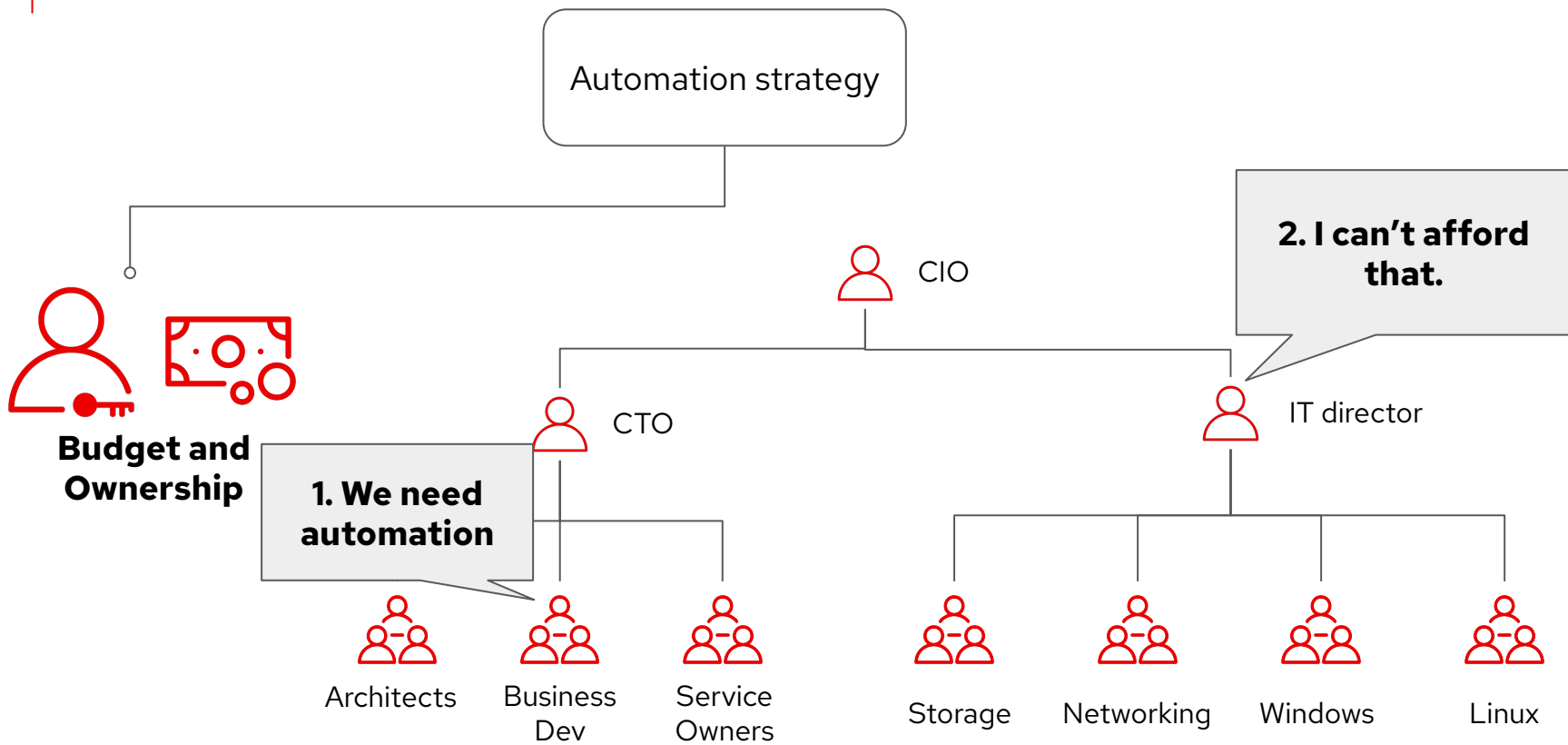
Enablement



Implementation

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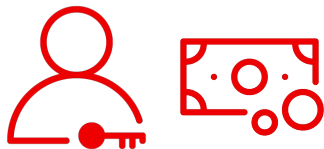


Implementation

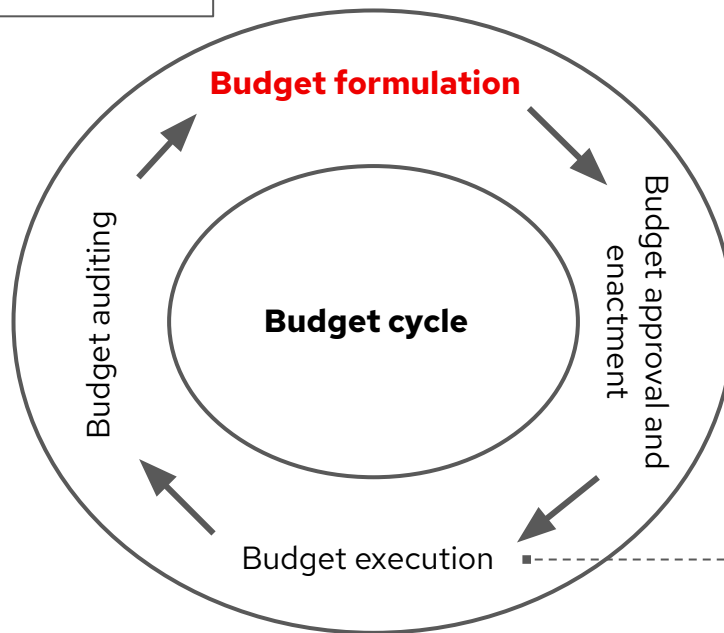
Availability

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Automation strategy



**Budget and
Ownership**



Can we have
organization-wide
enablement? No?



Adoption best practices

Strategy

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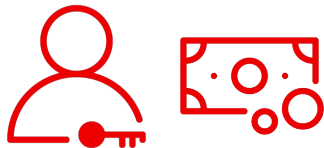


Implementation

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Budget and
Ownership



**Performance
monitoring**

Strategy

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Adoption best practices

Implementation

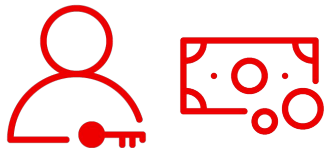
Availability

Security

Automation strategy

Business outcome

"Increase customer satisfaction by X%"



Budget and
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**Performance
monitoring**

Strategy

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Enablement



Adoption best practices

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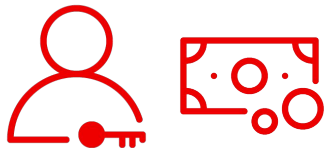
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Automation strategy

Business outcome

"Increase customer satisfaction by X%"



Budget and
Ownership



**Performance
monitoring**

Business objective

"Decrease time to
resolve customer
issues by Y%"

Business objective

"Increase delivery
precision for new
services by Z%"

Business objective

"Decrease delivery
time for new services
by Q%"

Adoption best practices

Strategy

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Enablement



Implementation

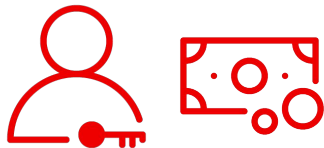
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Budget and
Ownership



**Performance
monitoring**

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"Decrease time to
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Business objective

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precision for new
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Automation

Automation

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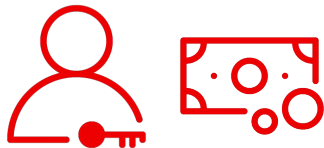
Implementation

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Automation strategy

Business outcome?



Budget and
Ownership



**Performance
monitoring**

Business objective?

Business objective?

Business objective?

Automation

Automation

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Adoption best practices

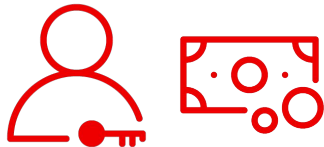


Implementation

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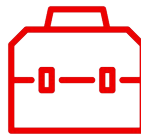
Automation strategy



Budget and
Ownership



Performance
monitoring



**Tools
strategy**

Strategy

Development

Enablement



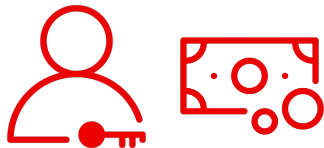
Adoption best practices

Implementation

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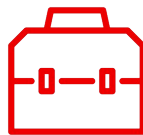
Automation strategy



Budget and
Ownership



Performance
monitoring



**Tools
strategy**

ROI



Ecosystem

Adoption best practices

Strategy

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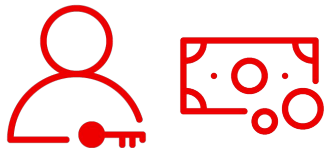


Implementation

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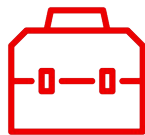
Automation strategy



Budget and
Ownership



Performance
monitoring



**Tools
strategy**

ROI



Ecosystem

Business agility



Hybrid compute

Adoption best practices

Strategy

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Enablement

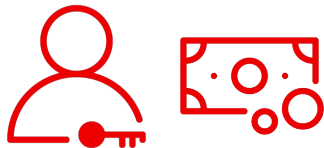


Implementation

Availability

Security

Automation strategy



Budget and
Ownership



Performance
monitoring



**Tools
strategy**

ROI



Ecosystem

Business agility



Security, availability,
scalability

Business agility



Hybrid compute

Adoption best practices

Strategy

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Enablement

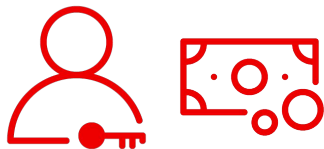


Implementation

Availability

Security

Automation strategy



Budget and
Ownership



Performance
monitoring



**Tools
strategy**

ROI



Ecosystem



Business agility



Hybrid compute



Business agility



ROI



Security, availability,
scalability



Sustainability



Adoption best practices

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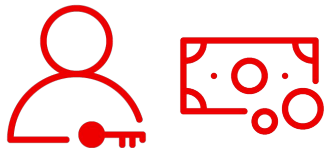


Implementation

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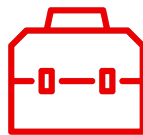
Automation strategy



Budget and
Ownership



Performance
monitoring



**Tools
strategy**

"
Strategy:
- Be a customer of vendor X
- Run product Y
"

Adoption best practices

Strategy

Development

Enablement

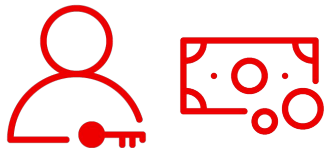


Implementation

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Budget and
Ownership



Performance
monitoring



Tools
strategy



**Skills
development**

Adoption best practices

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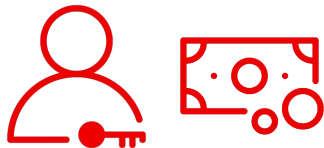


Implementation

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Budget and
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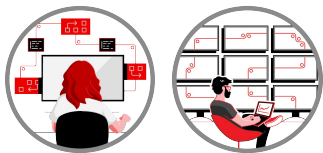
Performance
monitoring



Tools
strategy



**Skills
development**



Automation creators
(dev and ops)

Strategy

Development

Enablement



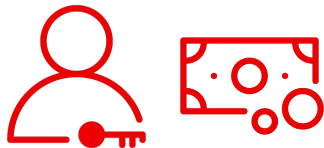
Adoption best practices

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Budget and
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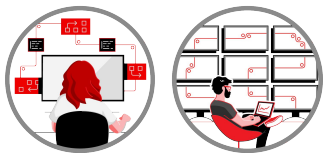
Performance
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Tools
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**Skills
development**



Automation creators
(dev and ops)



Managers

Strategy

Development

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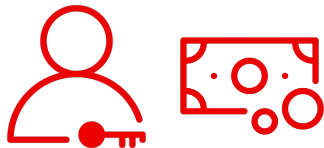
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Budget and
Ownership



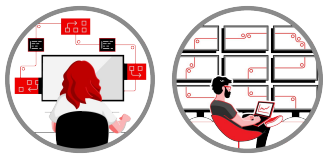
Performance
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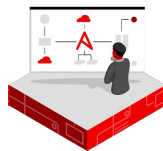
Tools
strategy



**Skills
development**



Automation creators
(dev and ops)



Managers



Service and platform
owners

Strategy

Development

Enablement



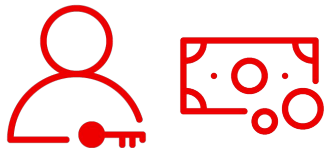
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Budget and
Ownership



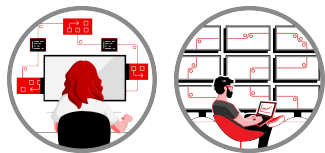
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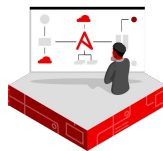
Tools
strategy



**Skills
development**



Automation creators
(dev and ops)



Managers



Service and platform
owners



Architects, project managers,
business devs, support staff

Strategy

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Enablement

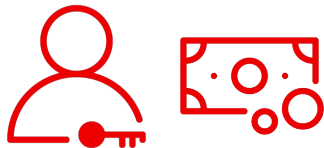
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Budget and
Ownership



Performance
monitoring

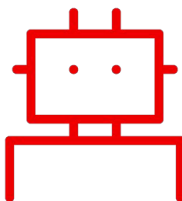


Tools
strategy



**Skills
development**

I am manager robot v5.
Announcement:
We now have the tool. No training.
Everyone needs to use the tool.



Development

Enablement

Strategy

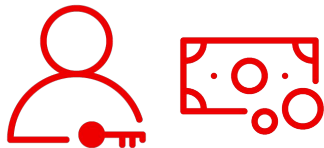
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Budget and
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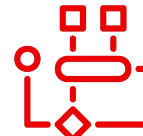
Performance
monitoring



Tools
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Skills
development



**Key
processes**

Adoption best practices

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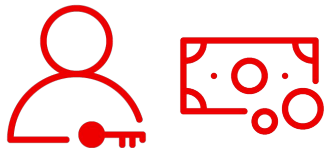


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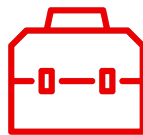
Automation strategy



Budget and
Ownership



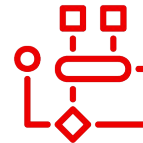
Performance
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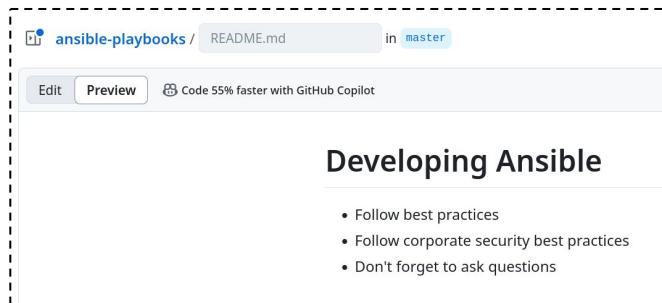
Tools
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Skills
development



**Key
processes**



Development

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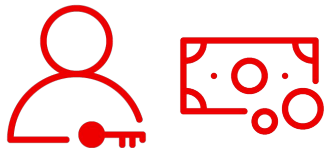
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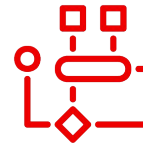
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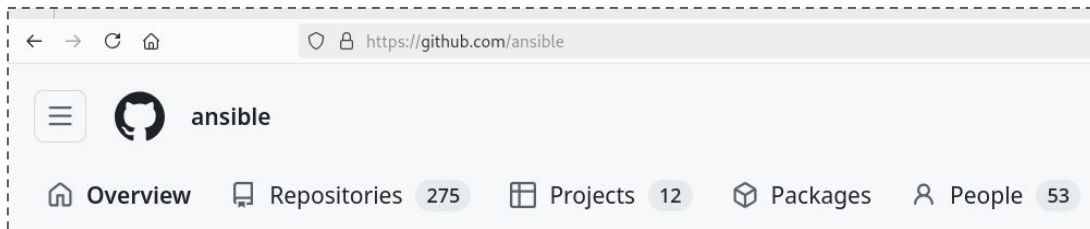
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Skills
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**Key
processes**



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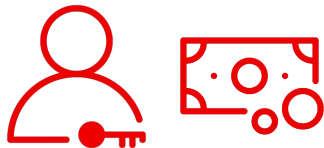
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Budget and
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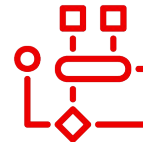
Performance
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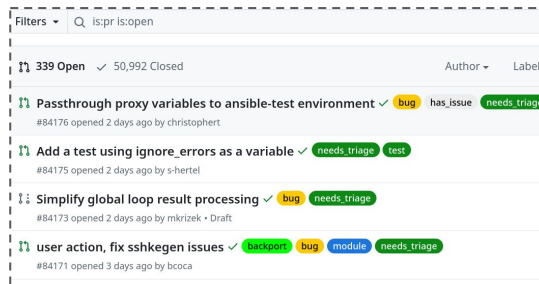
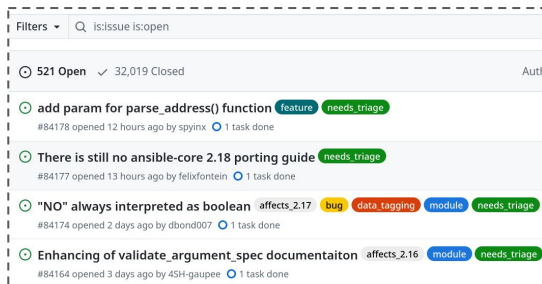
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**Key
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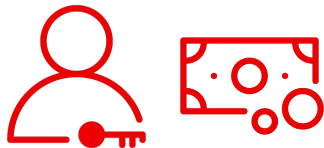


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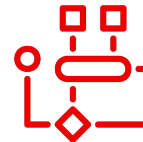
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development



**Key
processes**

Developer Guide

Note

Making Open Source More Inclusive

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. We ask that you open an issue or pull request if you come upon a term that we have missed. For more details, see our CTO Chris Wright's message.

Welcome to the Ansible Developer Guide!

Who should use this guide?

If you want to extend Ansible by using a custom module or plugin locally, creating a module or plugin, adding functionality to an existing module, or expanding test coverage, this guide is for you. We've included detailed information for developers on how to test and document modules, as well as the prerequisites for getting your module or plugin accepted into the main Ansible repository.

Module format and documentation

If you want to contribute your module to most Ansible collections, you must write your submission checklist, programming tips, and strategy for maintaining Python 2 and Python 3.

Every Ansible module written in Python must begin with seven standard sections in a particular order.

- Python shebang & UTF-8 coding
- Copyright and license
- `ANSIBLE_METADATA` block
- `DOCUMENTATION` block
- `EXAMPLES` block
- `RETURN` block
- Python imports
- [Testing module documentation](#)

Strategy

Development

Enablement



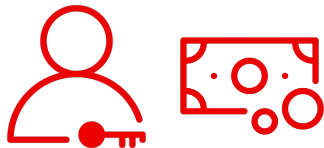
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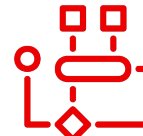
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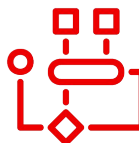
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**Key
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Integration



Automatic changes

Strategy

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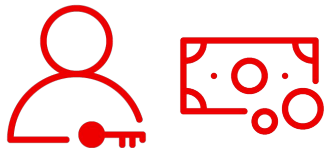
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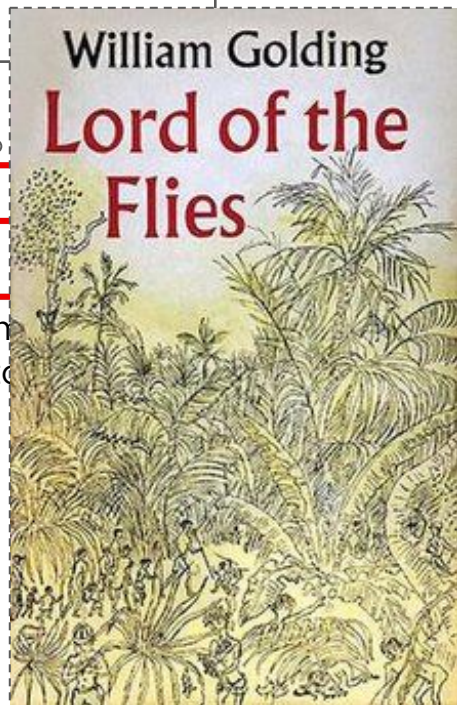
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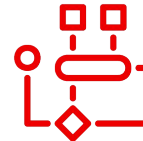
Budget and
Ownership



Perform
monito



Skills
development



**Key
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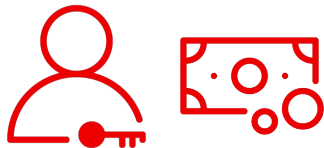
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Budget and
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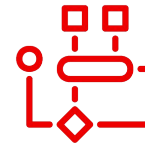
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Skills
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Key
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Implementation

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Creation of an
Automation strategy

Adoption best practices

Strategy

Development

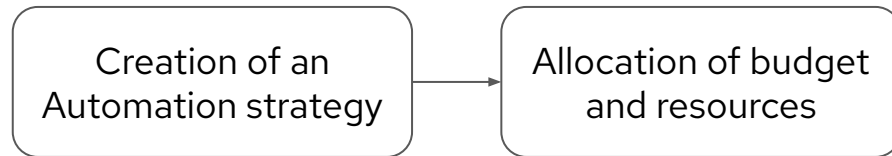
Enablement



Implementation

Availability

Security



Adoption best practices

Strategy

Development

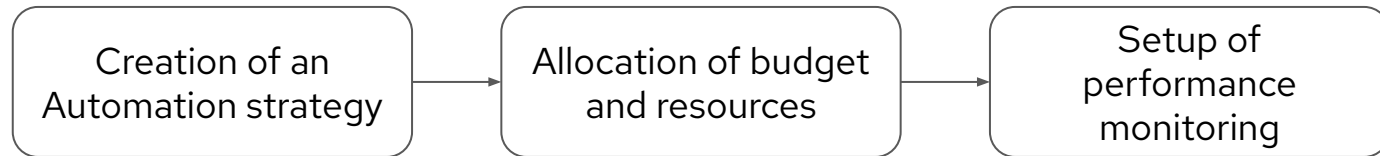
Enablement



Implementation

Availability

Security



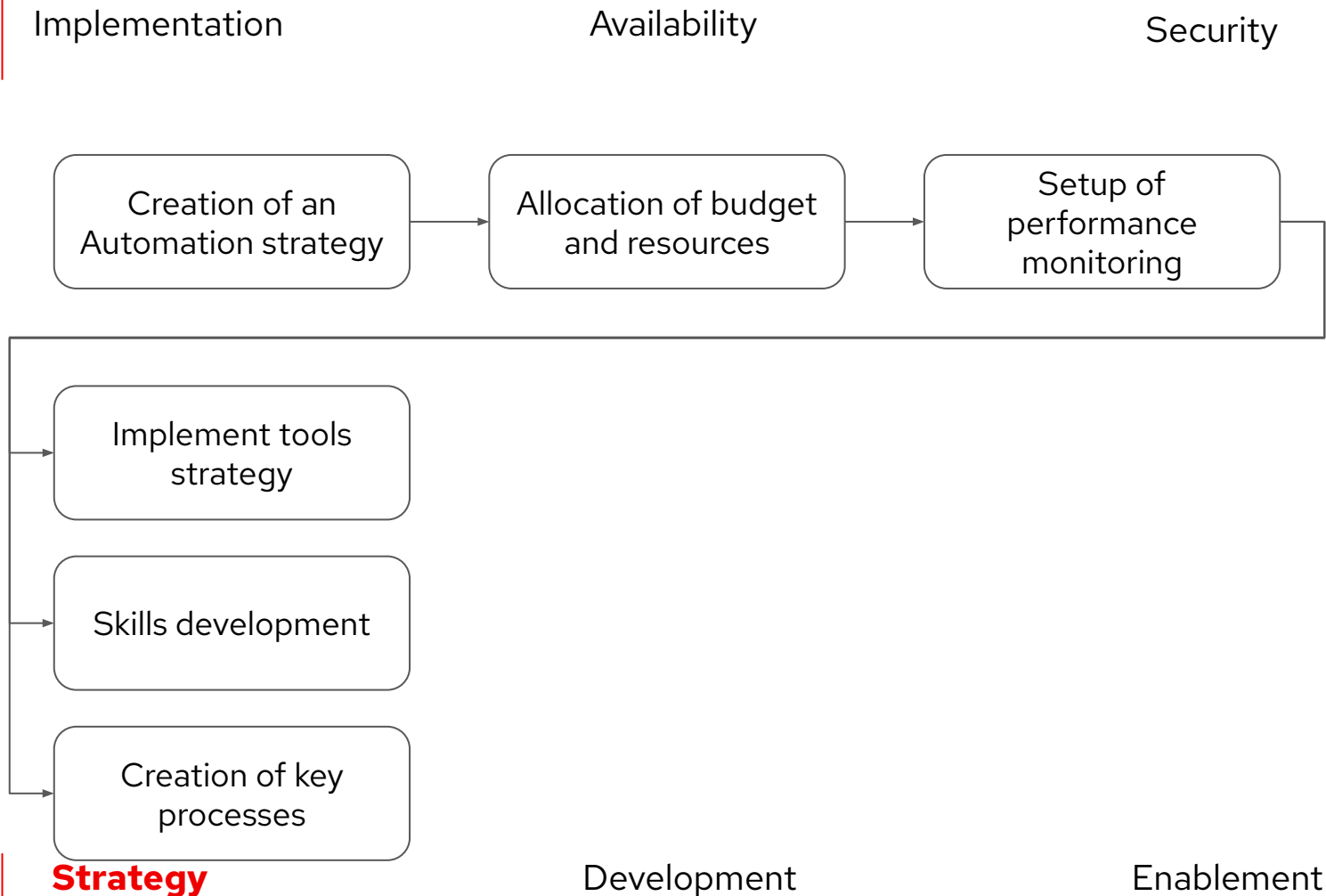
Adoption best practices

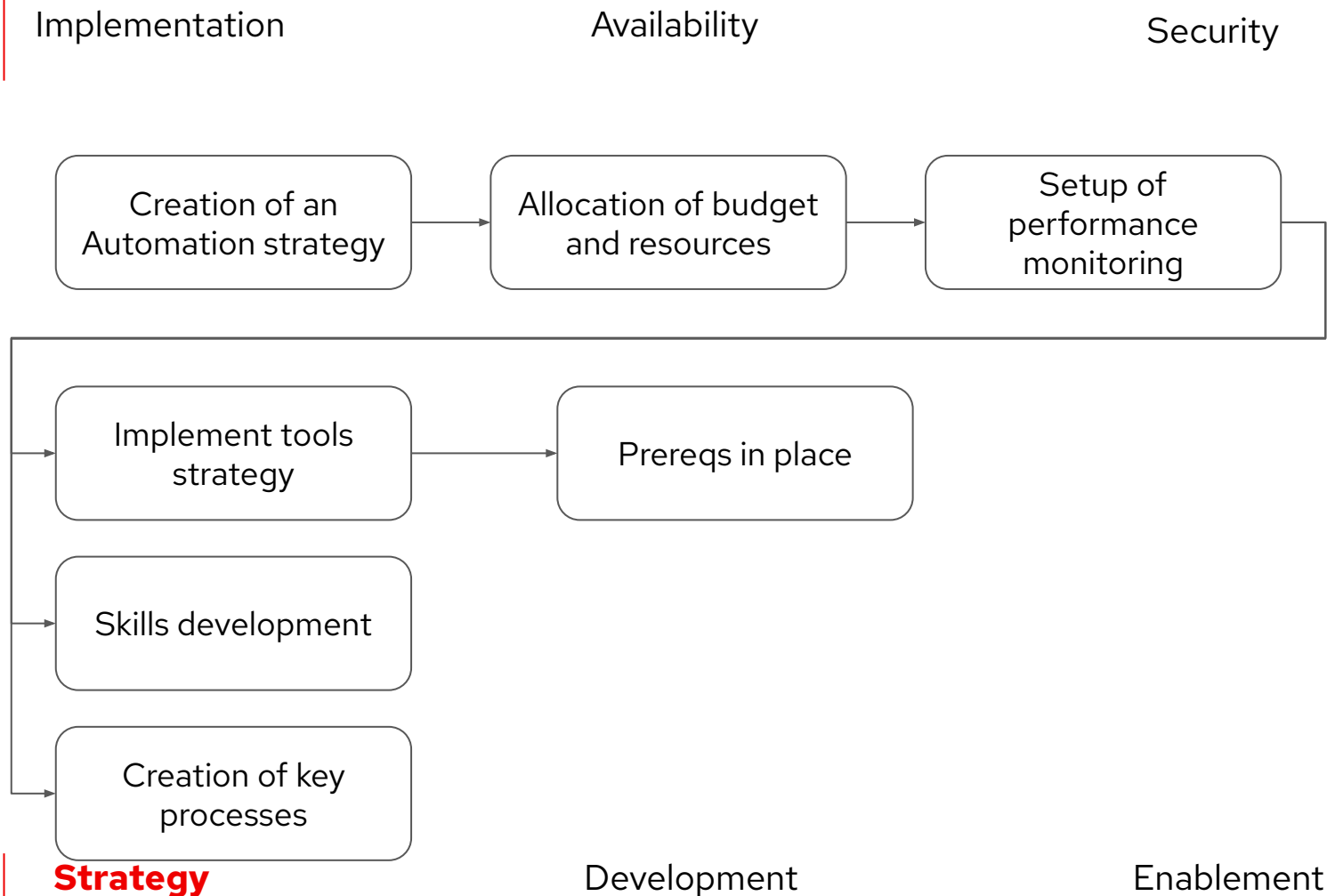
Strategy

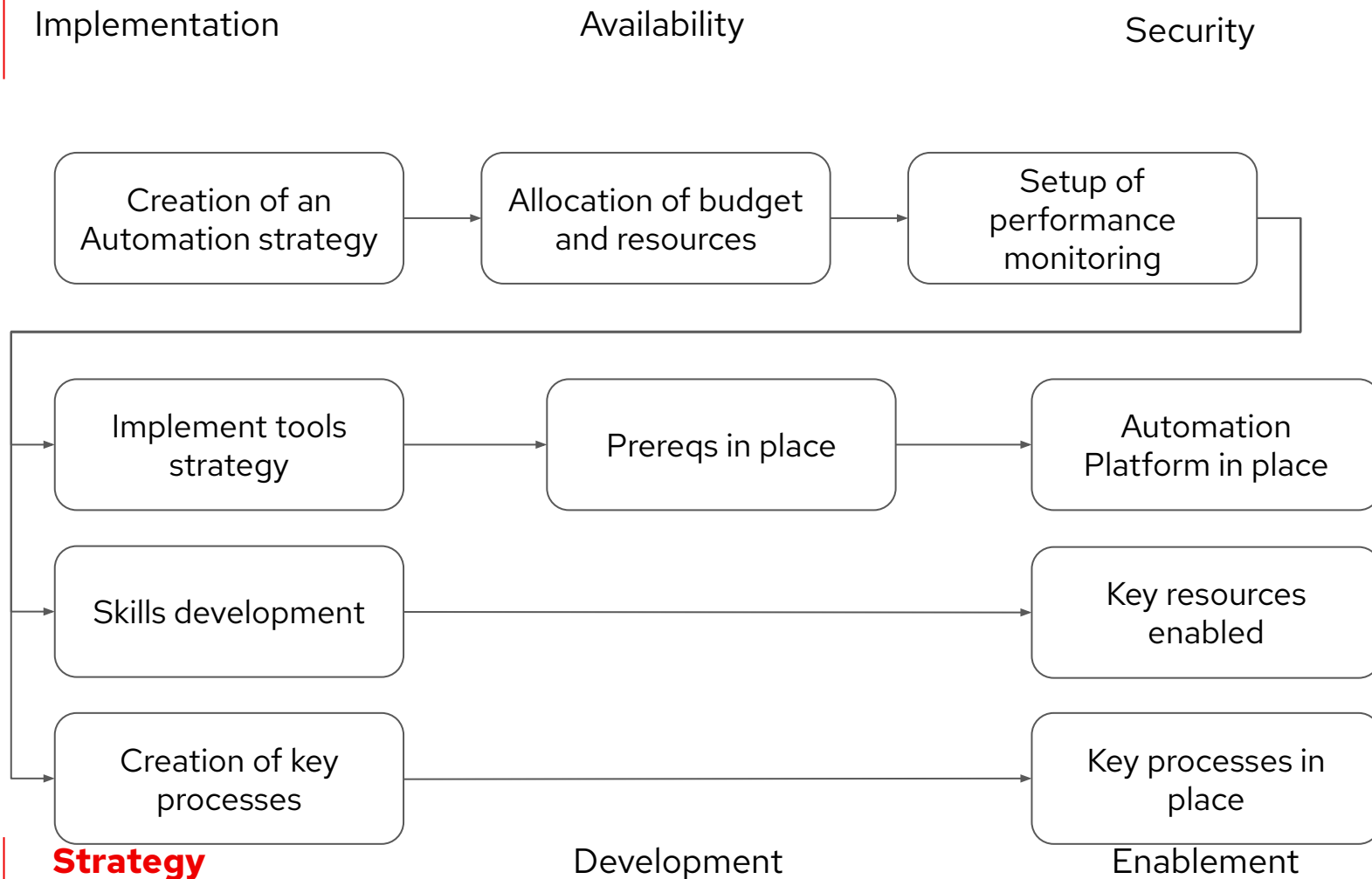
Development

Enablement

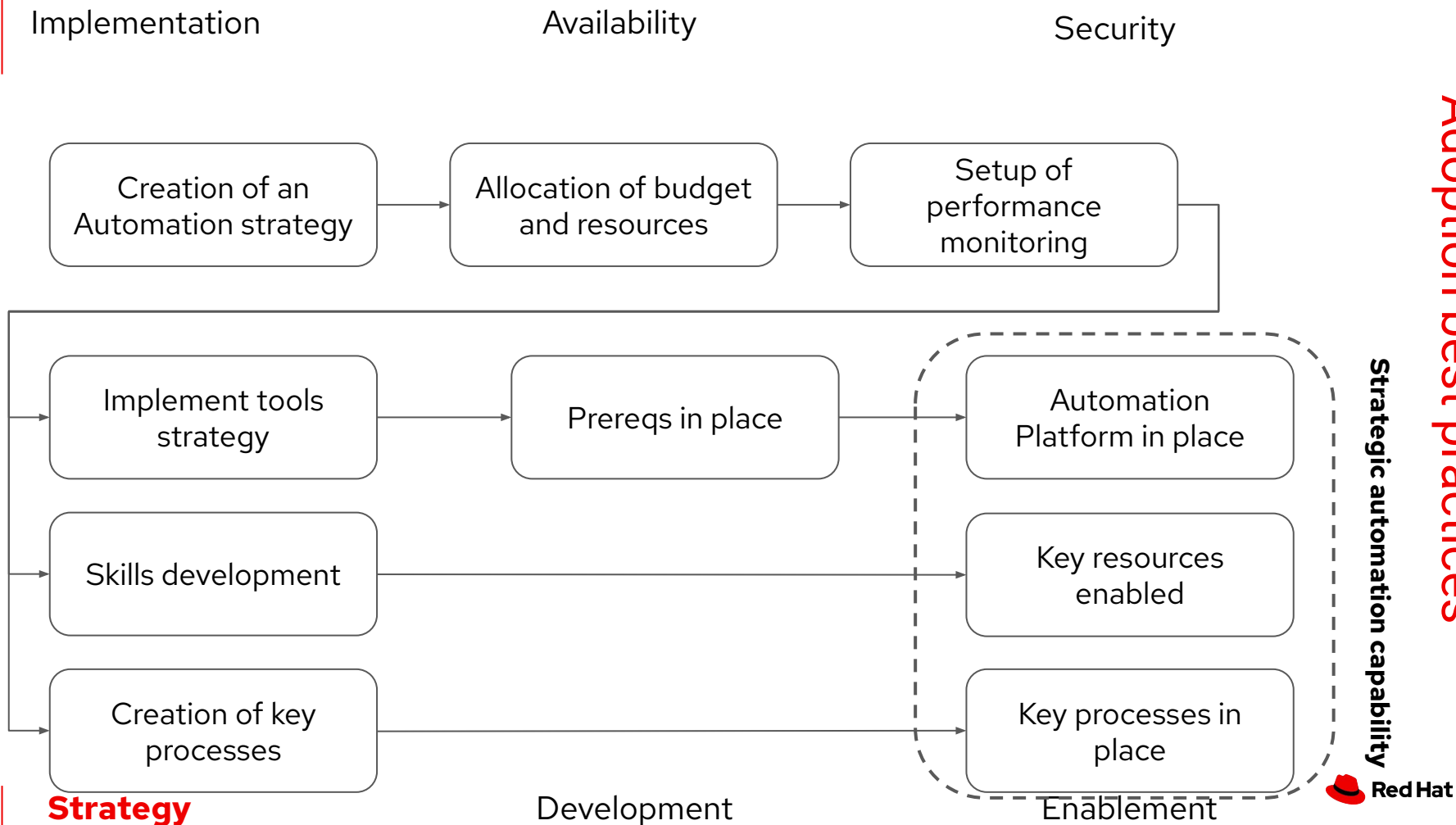








Adoption best practices



Implementation

Security

Availability

Adoption best practices

Strategy

Development

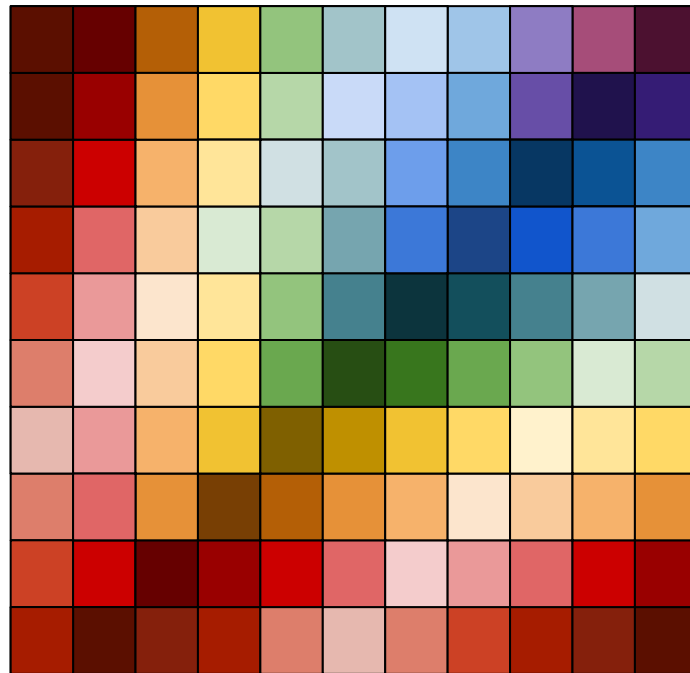
Enablement



Implementation

Availability

Security



Adoption best practices

Strategy

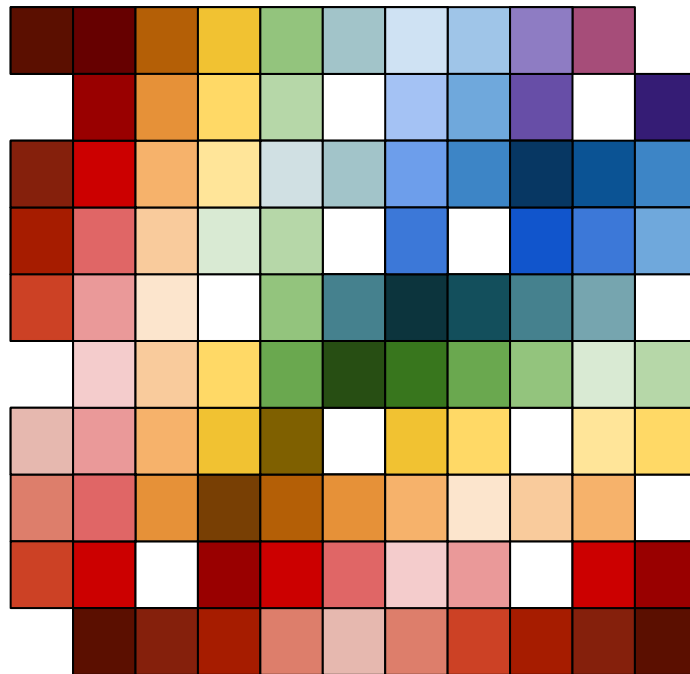
Development

Enablement

Implementation

Availability

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Adoption best practices

Strategy

Development

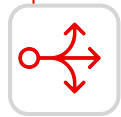
Enablement

Implementation

Availability

Security

Adoption best practices



Gateway



Controller



Execution node



Hop node



Database



Private
Automation Hub

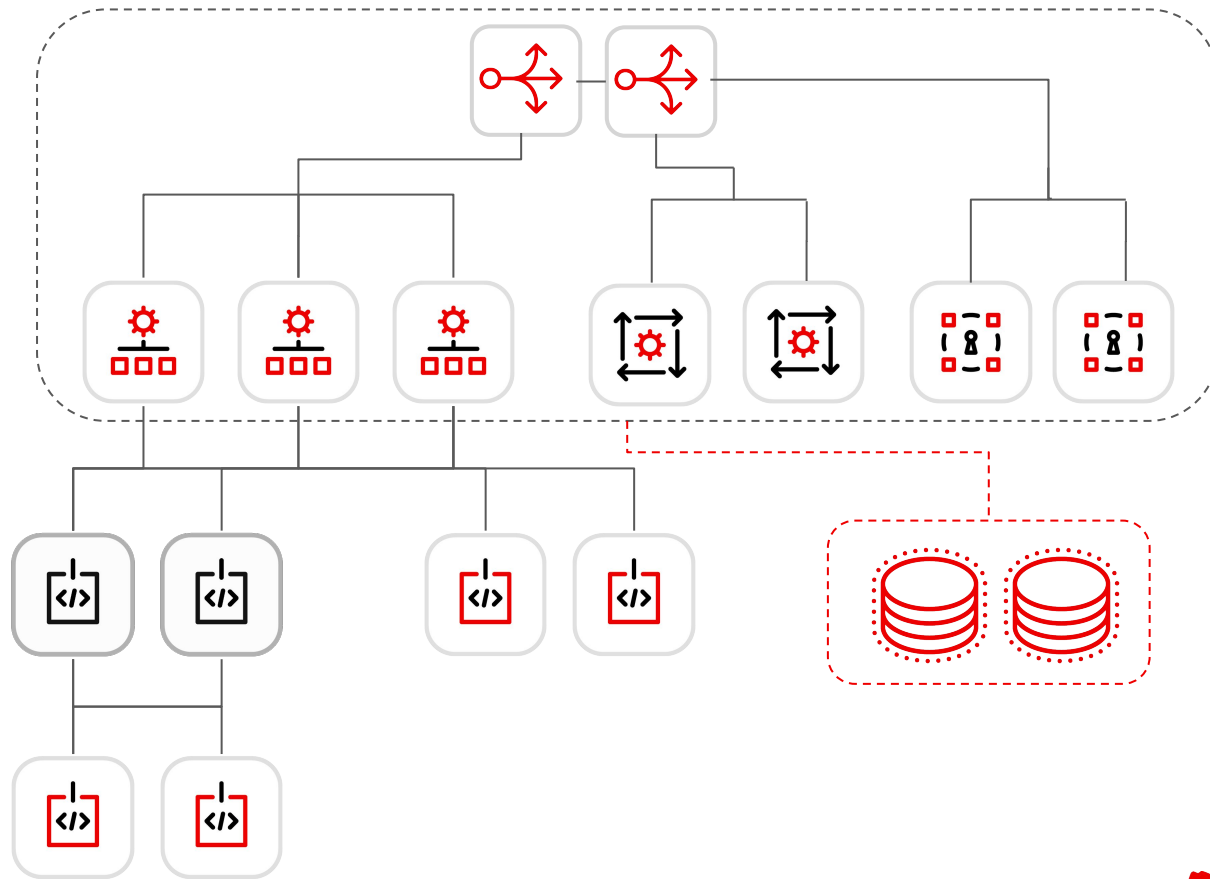


Event-Driven
Ansible

Strategy

Development

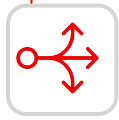
Enablement



Implementation

Availability

Security



Gateway



Controller



Execution node



Hop node



Database



Private Automation Hub

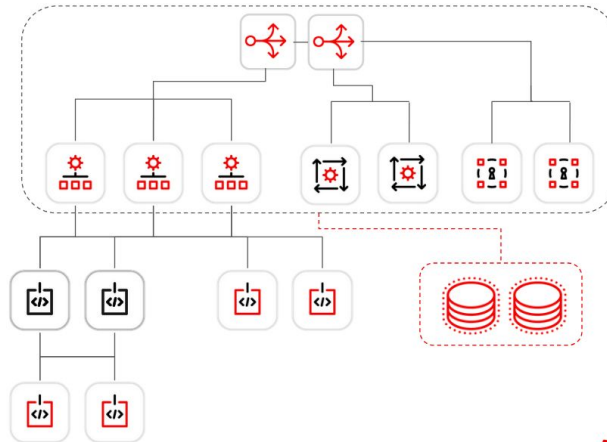
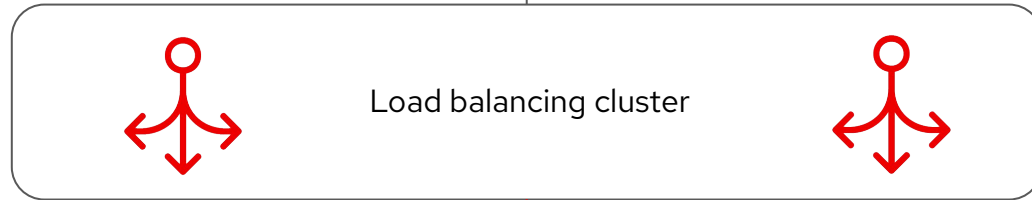


Event-Driven Ansible

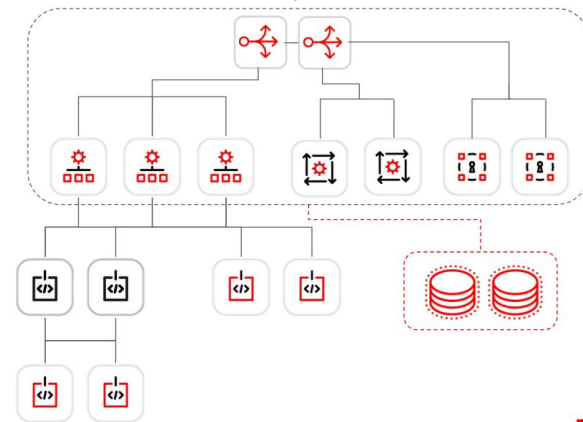
Strategy

Site A

Site B



Development



Enablement

Adoption best practices



Implementation

Availability

Security

Adoption best practices

Site A

Site B

Version control system

Git repository + hook, action or CI



Job template



AAP
config



Job template



AAP
config

```
---
- name: Playbook to configure ansible controller post installation
  hosts: localhost
  connection: local
  tasks:
    - name: Include vars from configs directory
      ansible.builtin.include_vars:
        dir: "{{ aap_configs_dir | default((lookup('env', 'AAP_CONFIGS_DIR'), '') | default('/etc/ansible/vars')) }}"
        ignore_files: [controller_config.yml.template]
        extensions: ["yaml"]
      tags:
        - always

    - name: Call dispatch role
      ansible.builtin.include_role:
        name: infra.aap_configuration.dispatch
  ...
```

Strategy

Development

Enablement



Implementation

Availability?

Security

Adoption best practices

Questions?

Strategy?

Development

Enablement



Red Hat
Summit

Connect

Thank you



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