

Red Hat Certified Specialist in Advanced Automation: Mastering Ansible Tower

Getting Advanced with Ansible Tower



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Course Introduction



Key environmental challenges

Fully integrated platform

Execution environments and automation mesh

Key Tower automation components

Troubleshooting paths

Control, governance and scalability

Demos!



Module Introduction



The need for an automation platform

Web server automation steps

How to start an advanced automation journey

How to control automation

Demos!



Environmental Landscape Challenges



The traditional world of scripting

Lack of network and security integration

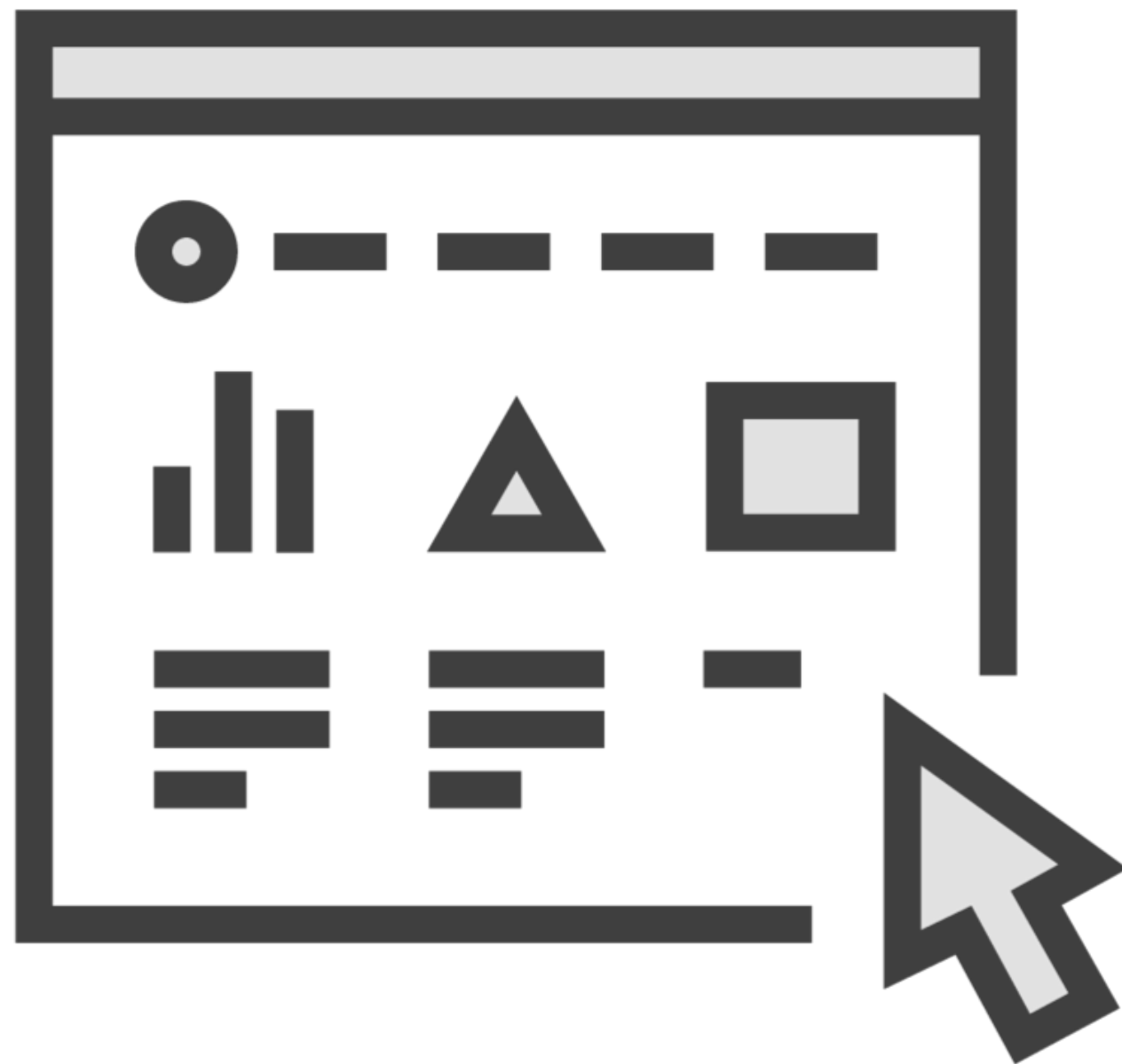
Advanced automation use cases

Control, governance and scalability



End-to-End Automation

Web Server Integration



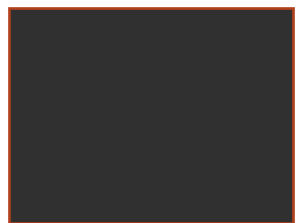
End-to-End Automation



Reserve IP



Assign DNS



Naming



Governance

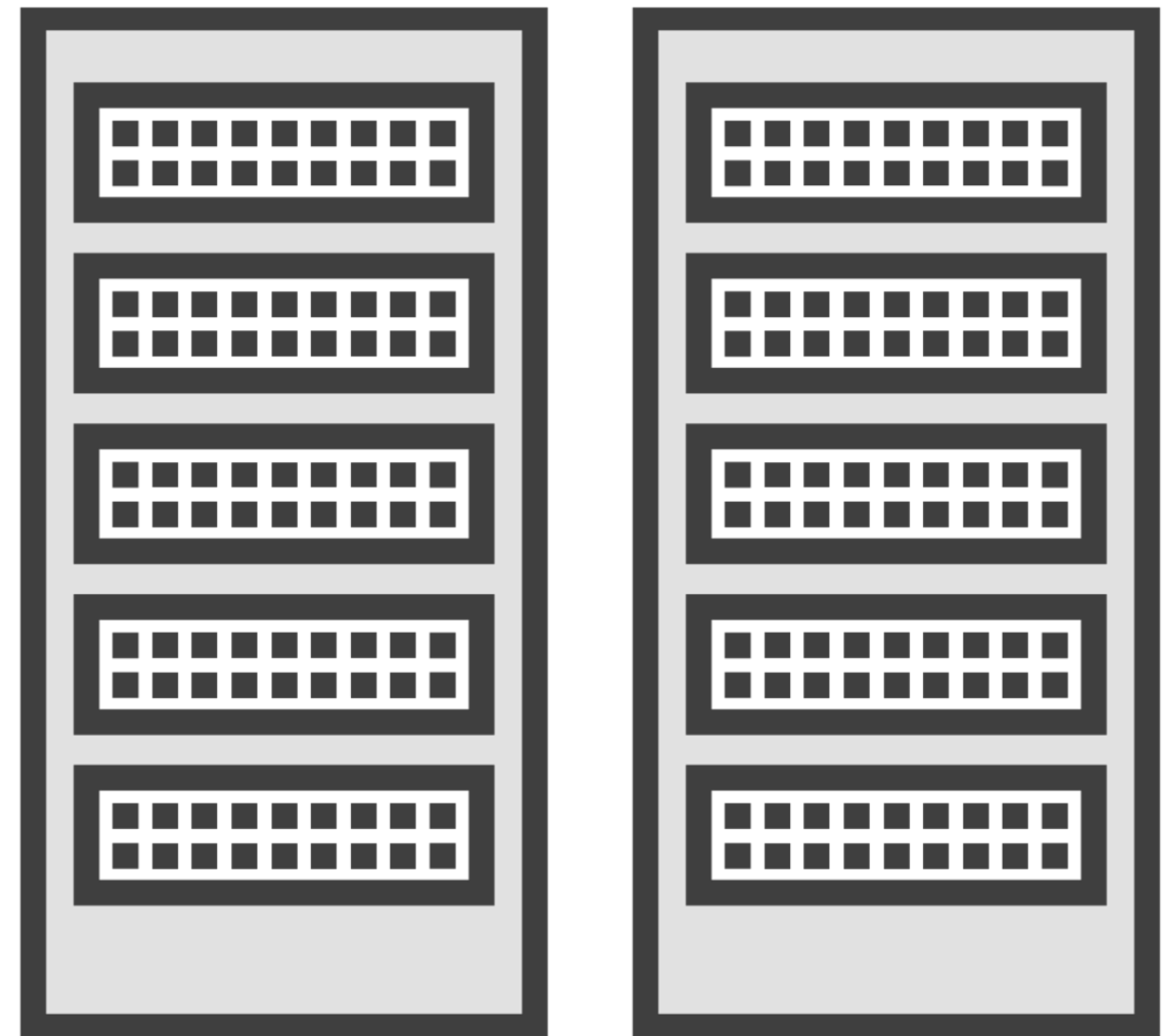




Integration steps

- 1 Firewall configuration
- 2 Load balancer VIP
- 3 WAN Edge & BGP
- 4 Segmentation
- 5 Virtual configuration

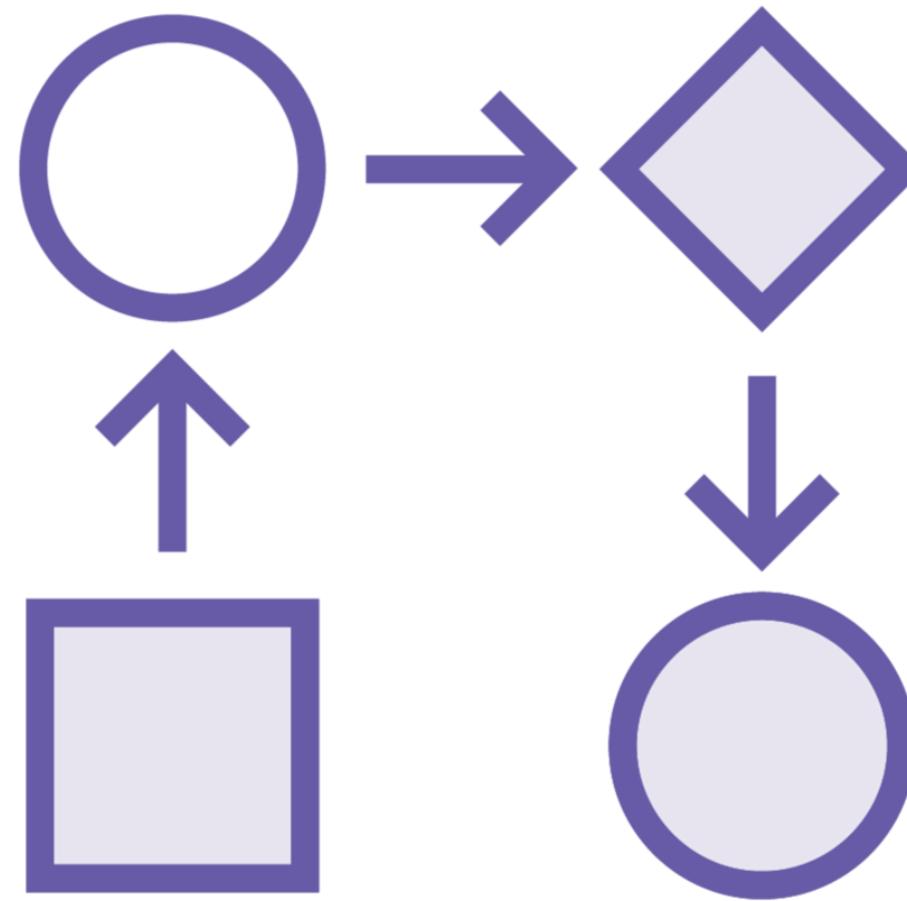
Network and security integration



The Correct Approach



**End-to-end
automaton**



**Control, governance,
and scalability**



Levels of automation



The Role of Ansible Tower



The four-stage automaton journey



Highlighting Tower features



Supports a variety of environments



Demo



Starting Advanced Automation



Focus on outcomes

Example: Security patching

Example: Firewall rules

Increase the number of use cases



Advanced Tower Use Cases

**Manage
configuration and
mitigate drift**

**Supported
environments**

**Infrastructure
awareness**

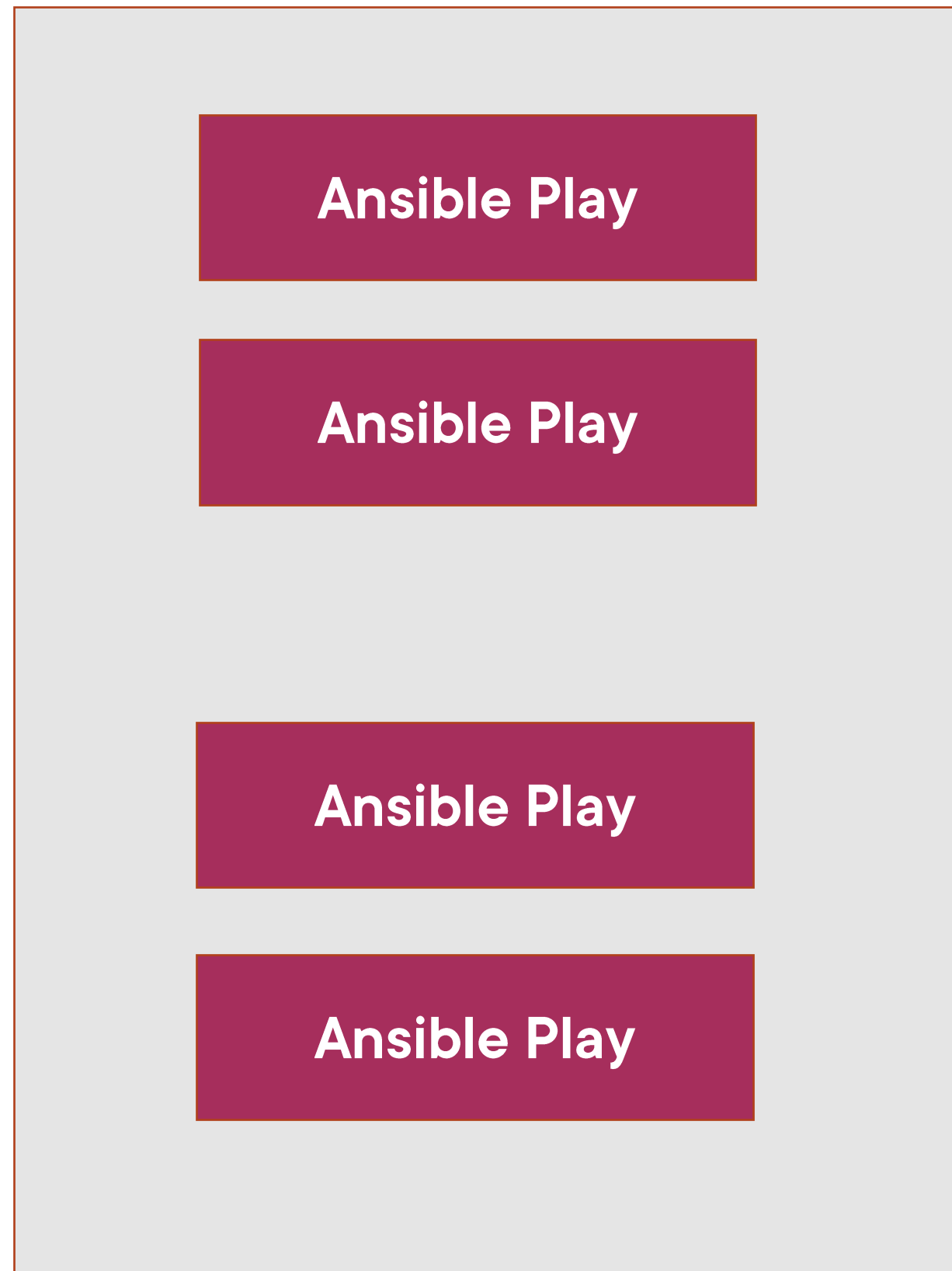
Network automation

Security automation

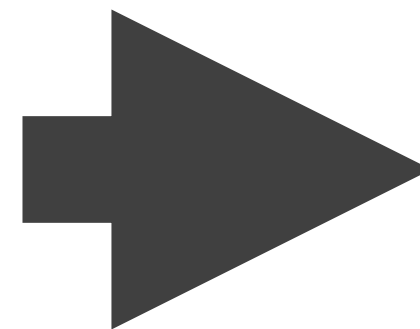
Cloud automation



What am I automating?

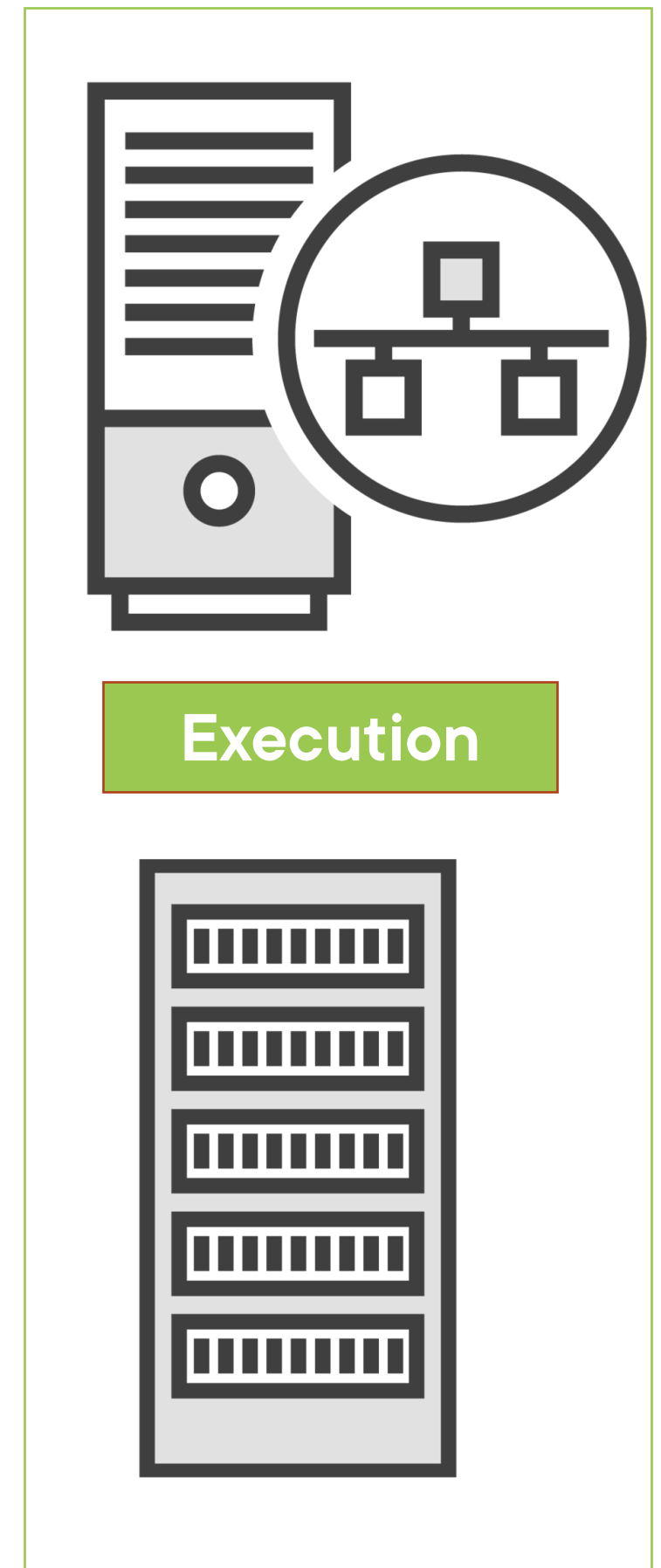


Managing desired state

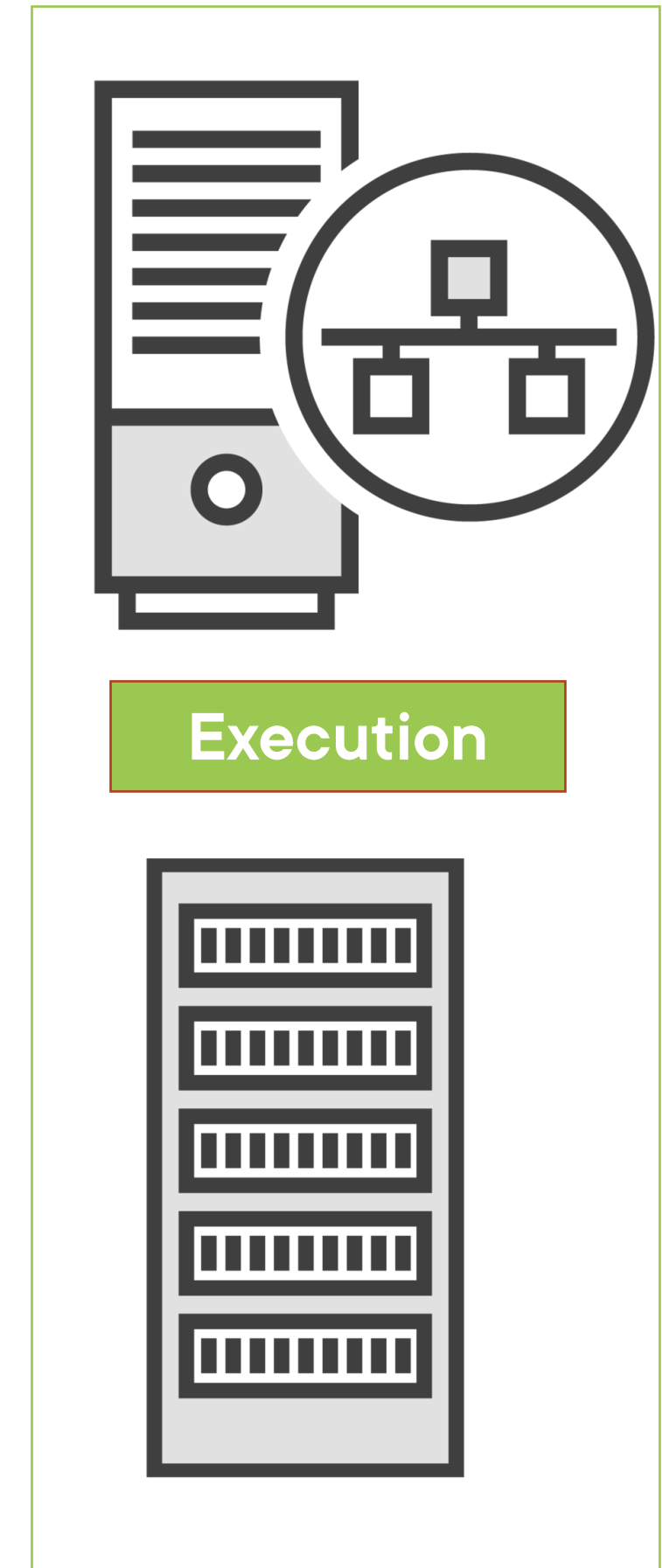
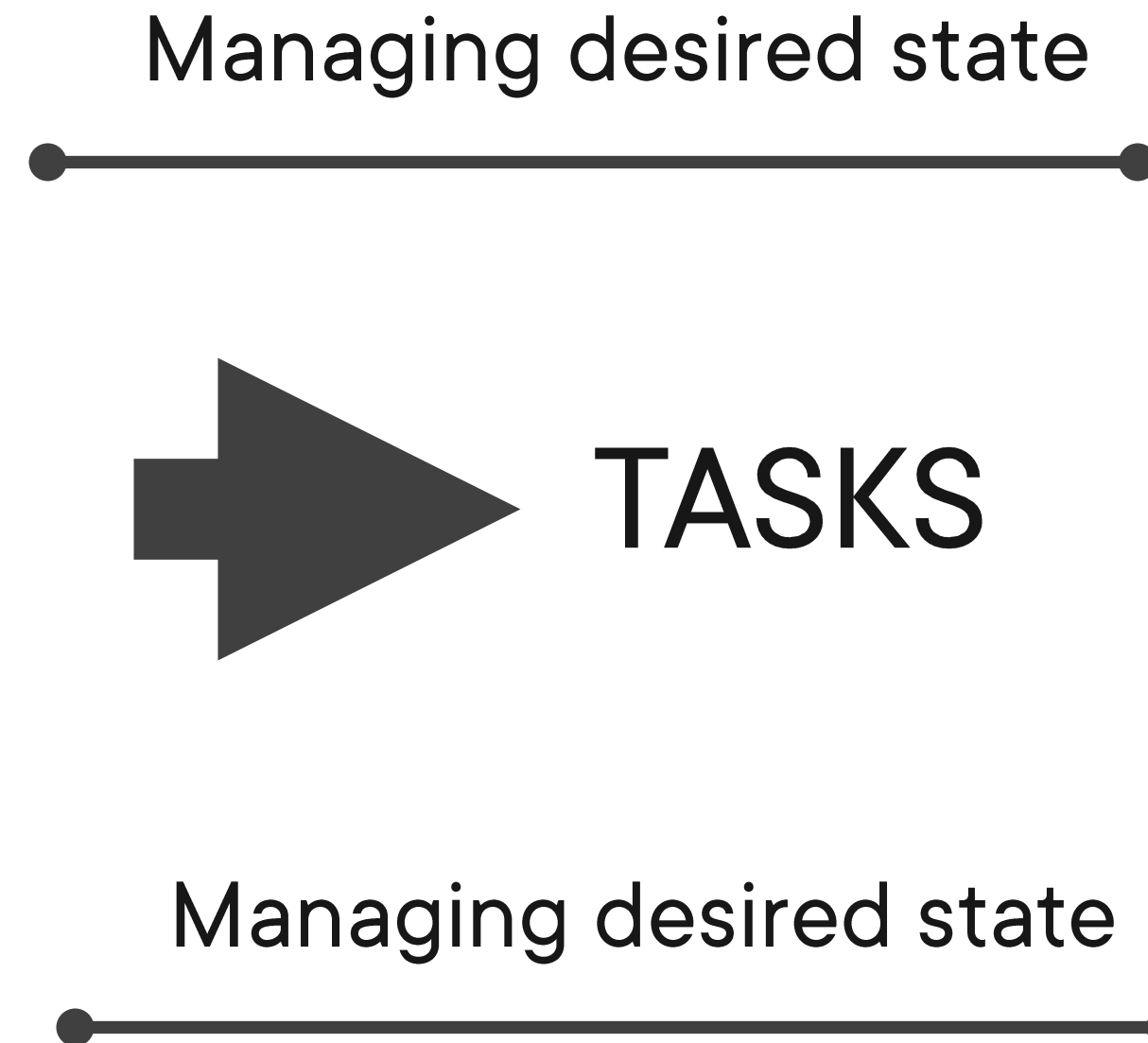
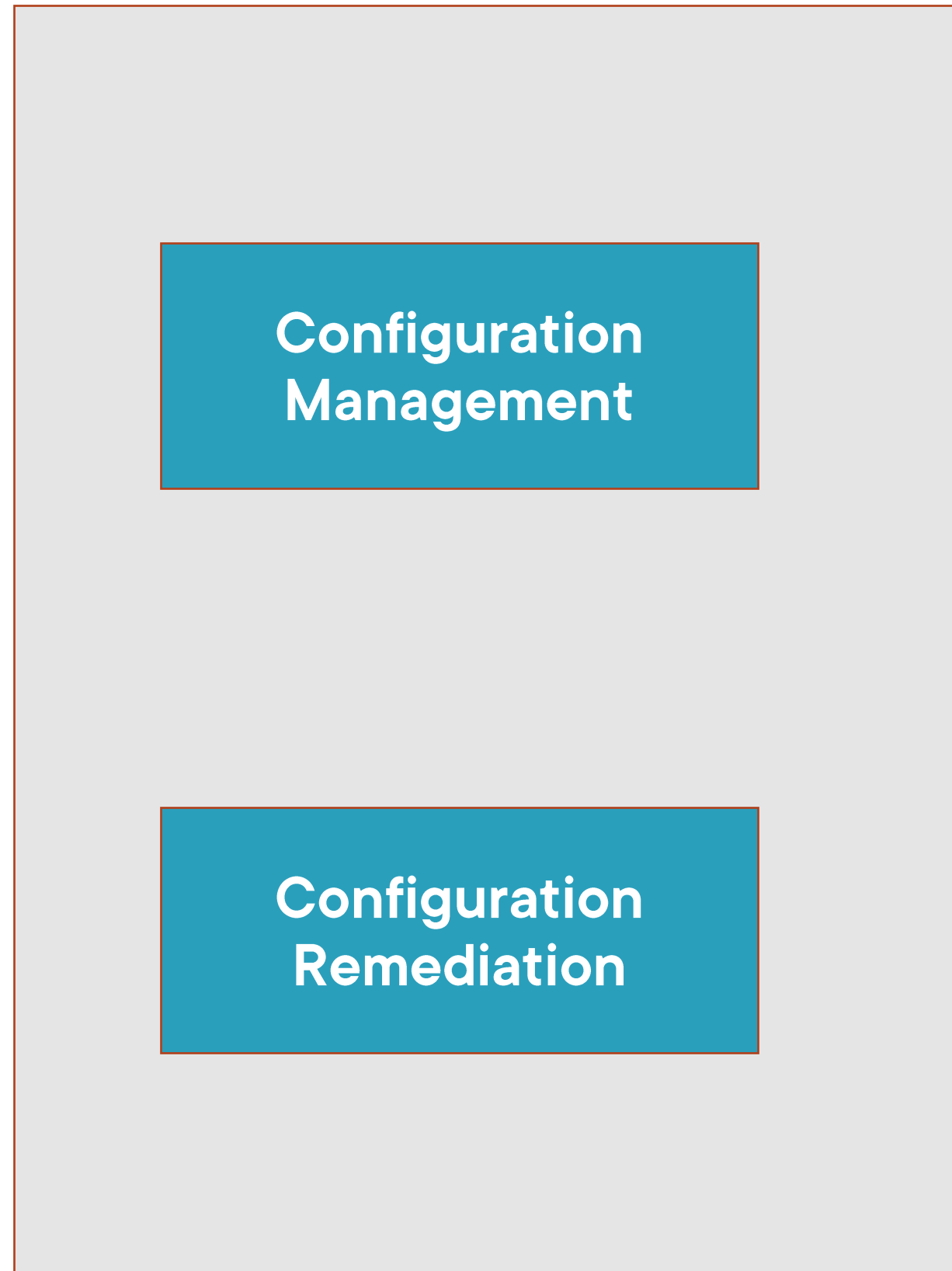


TASKS

Managing desired state



What am I automating?



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Cloud automation



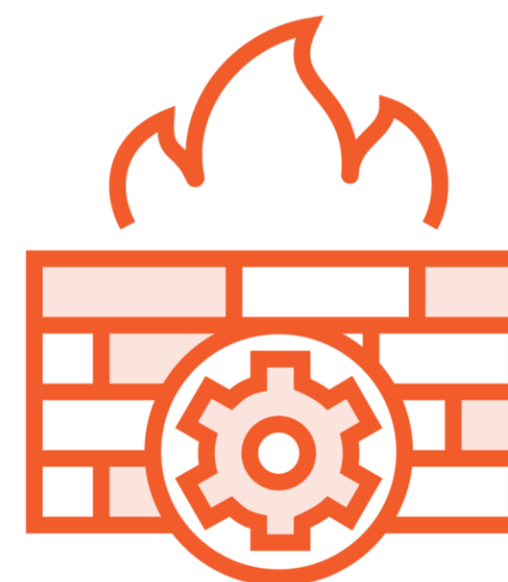
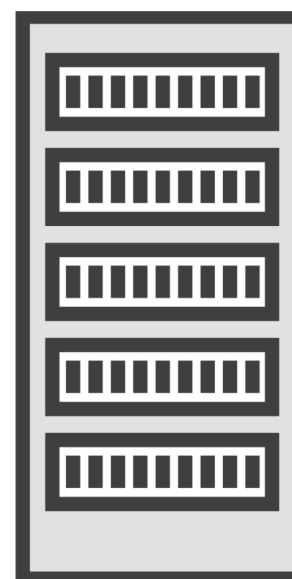
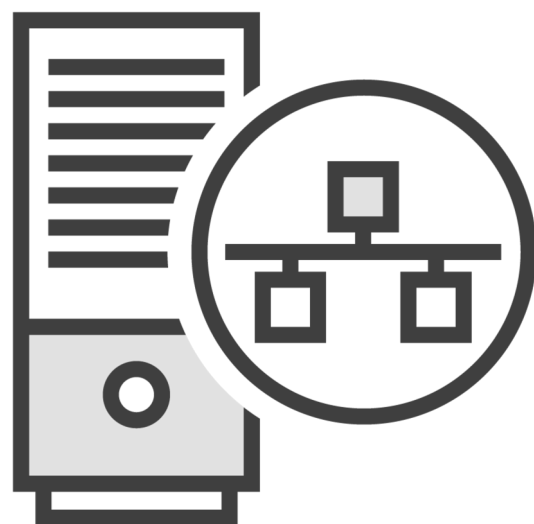


Log collection

Metric scraping



Supported environment



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Security automation

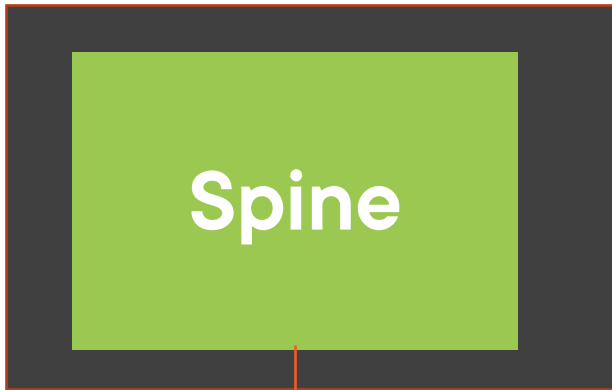
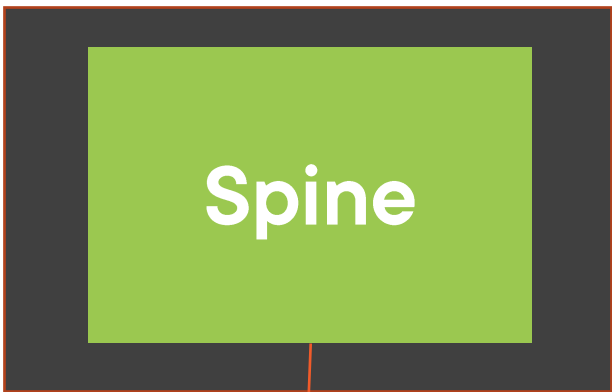
Cloud automation





Automation events

End-to-end Validation



Routed Fabric, Deterministic Paths, Equidistant Bandwidth



End-to-end Validation



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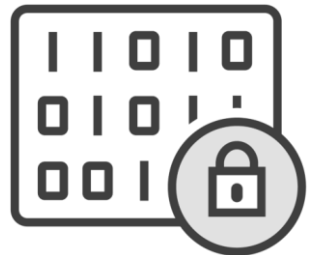
Ansible Tower Control



Configuration management is the first step



Configuration definition and continuous remediation



Playbook decoupling and roles



Content collections



Desired state



Provisioning Callback

Playbook triggering





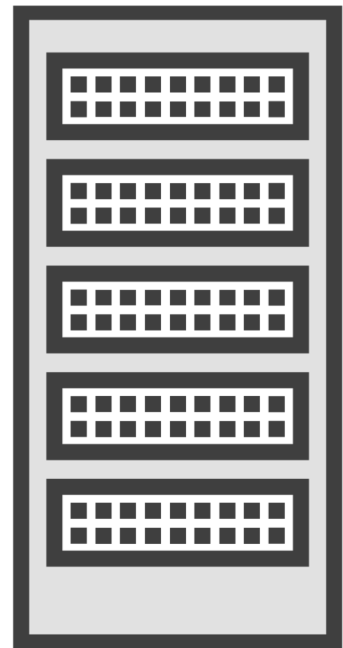
I have a new
server install

The illustration depicts a cafe environment. On the left, a woman with purple hair and glasses, wearing a black apron over a white shirt and green pants, stands with her arms crossed. In the center, a man in a red t-shirt and black shorts holds his head with one hand, looking distressed. On the right, another woman with purple hair and glasses, also in a black apron and green pants, holds a smartphone and gestures with her other hand. The background features a counter with a coffee machine, a laptop, and a potted plant. Shelves with cups and saucers are visible above the counter. A power outlet with a cord is on the wall near the man. The overall style is a clean, modern line art with flat colors.

Sorry the
next
playbook run
is 00:00



Ansible
Tower



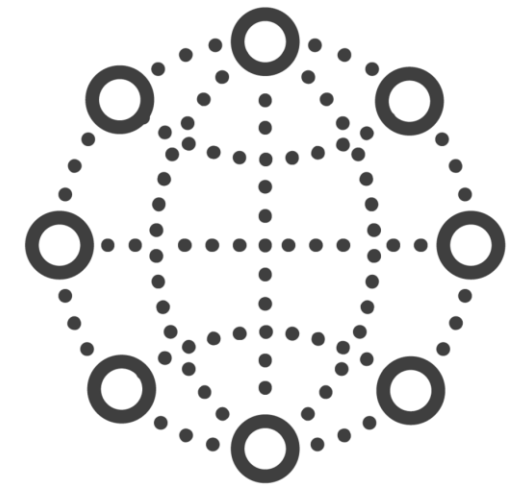
I want my config now



I want my config now



Remote Site



Cloud location



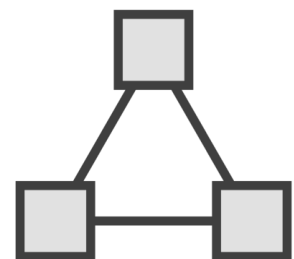
Workflow Templates



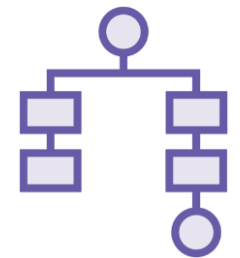
Different teams can collaborate together



Daisy chain and have a decision tree



Any inventory and credentials



Break down complex operations



Security benefits



Advanced Tower Control

Scheduling

Surveys

**Delegation of
control**

Credentials

**Role and
permissions**

**Build your own
automation journey**



Demo



Module Summary



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