

Connect

Red Hat Ansible Automation Platform 2

And Execution environments...



Intro:



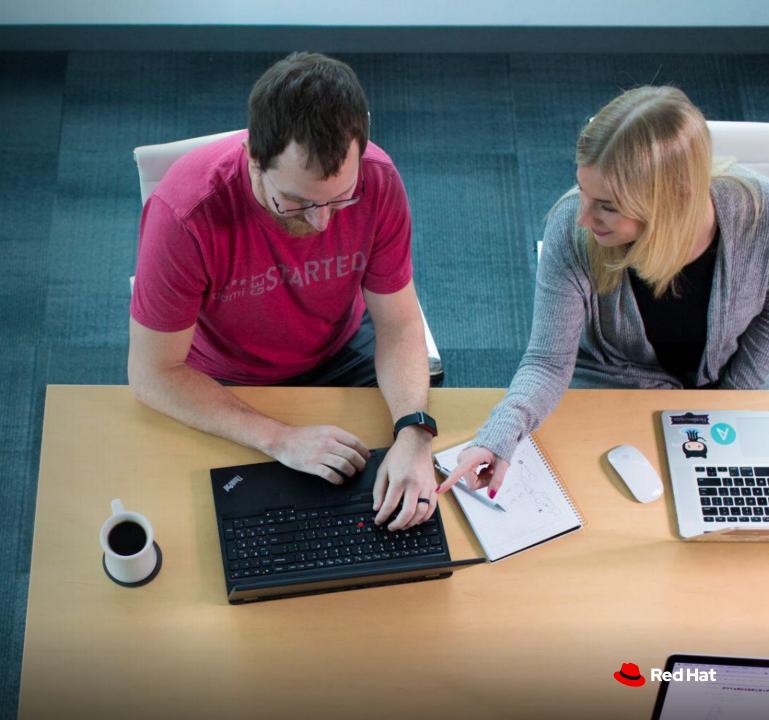
Haaike van der Merwe Senior Solutions Architect - Hybrid Cloud



Let's Connect on LinkedIn!

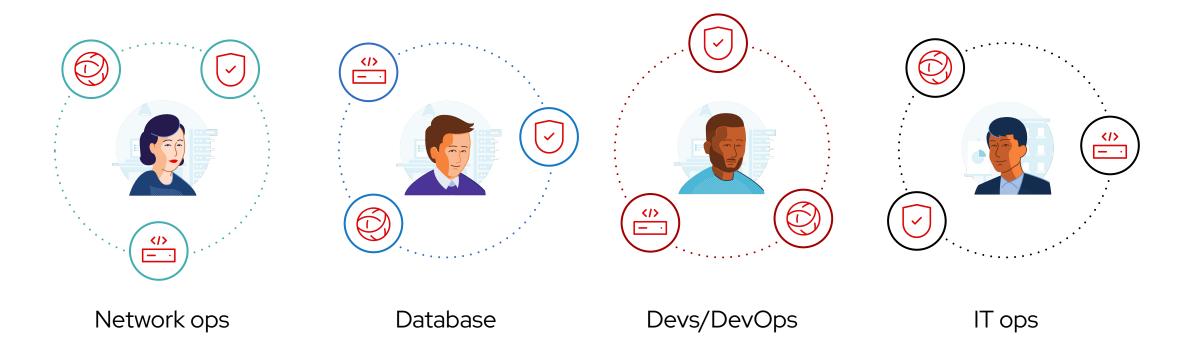


Anyone can automate...
but an enterprise needs
to coordinate and scale



Many organizations share the same challenge

Too many unintegrated, domain-specific tools



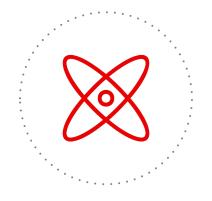




Why the Red Hat® Ansible® Automation Platform?

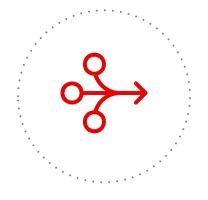


Why the Ansible Automation Platform?



Powerful

Orchestrate complex processes at enterprise scale.



Simple

Simplify automation creation and management across multiple domains.



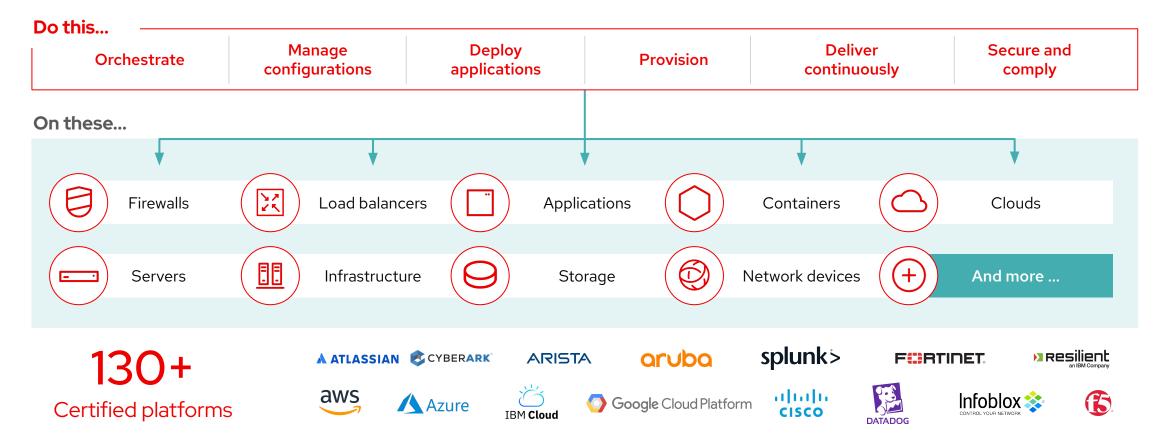
Agentless

Easily integrate with hybrid environments.



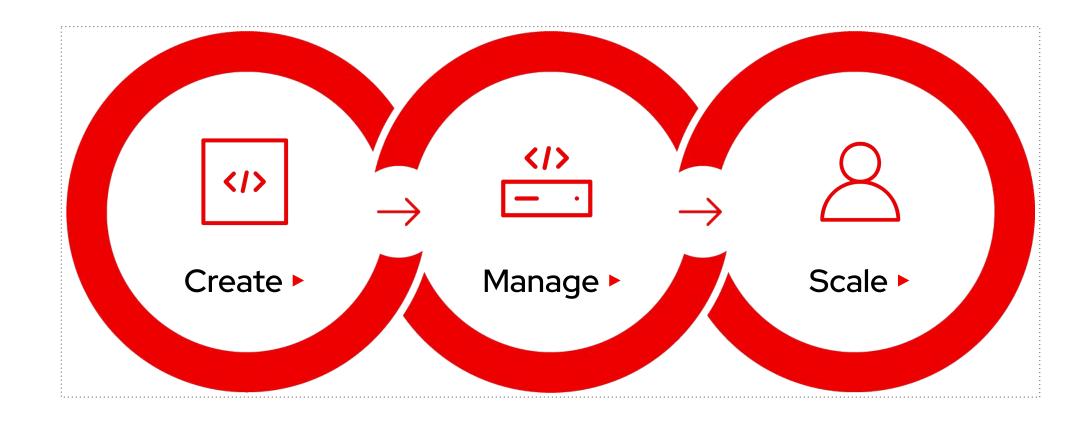
Automate everything you need

Many use cases across multiple domains

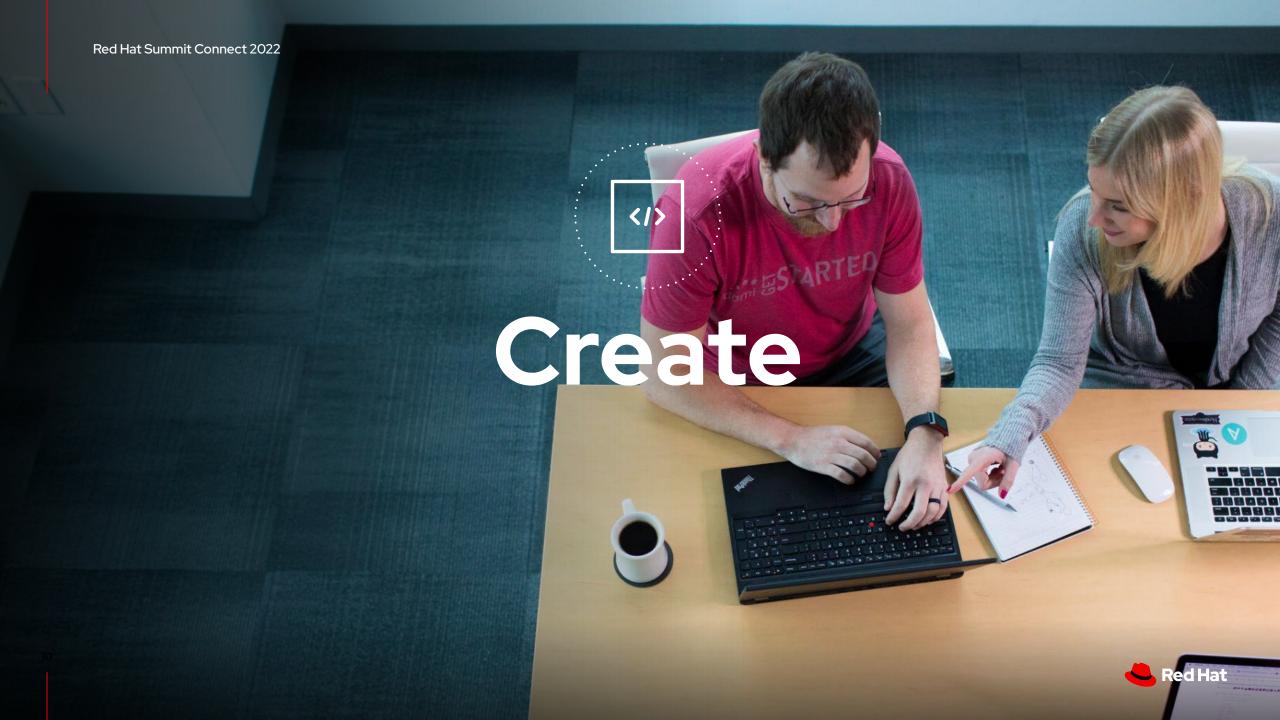




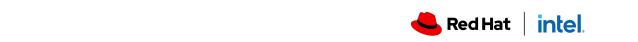
Enabling your automation team to consistently...







Playbooks

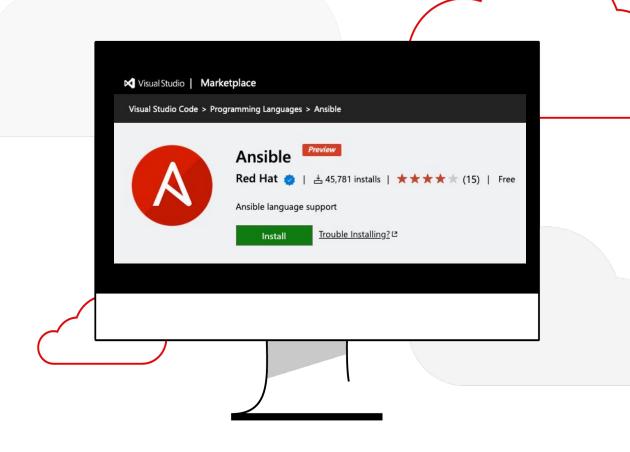


Microsoft VS Code extension. Simplifying content creation



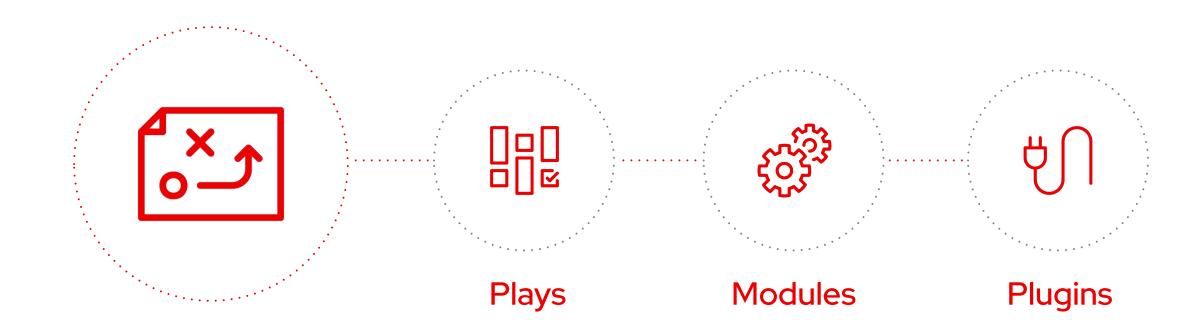
What is it?

- Syntax highlighting of keywords such as module names.
- Live validation of your code while you type
- ► Integration with ansible-lint*
- Autocompletion on play, block or task contents etc.
- Documentation references as you code





What makes up an Ansible playbook?





Examples





Example: Windows (IIS)

```
name: start IIS/stop firewall
hosts: windows-web
become: yes
tasks:
- name: IIS is running
  win_service:
    name: W3Svc
    state: running
- name: firewall service is stopped/disabled
  win service:
    name: MpsSvc
    state: stopped
    start mode: disabled
```

```
---
- name: ensure common OS updates are current
win_updates:
    category_names: "{{ categories }}"
    blacklist: "{{ blacklist_packages }}"
    whitelist: "{{ whitelist_packages }}"
    register: update_result
- name: if needed, reboot and wait for host
    win_reboot:
    when: update_result.reboot_required
```

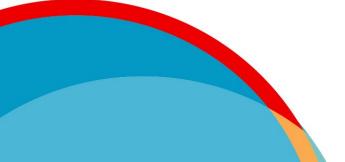


Example: Cisco

```
- name: configure ios interface
  hosts: ios01
  tasks:
   - name: collect device running-config
      ios command:
        commands: show running-config interface GigabitEthernet0/2
        provider: "{{ cli }}"
     register: config
   - name: administratively enable interface
      ios_config:
        lines: no shutdown
        parents: interface GigabitEthernet0/2
        provider: "{{ cli }}"
      when: "shutdown" in config.stdout[0]
```



Ansible Content





Collections

Simplified and consistent content delivery



What are they?

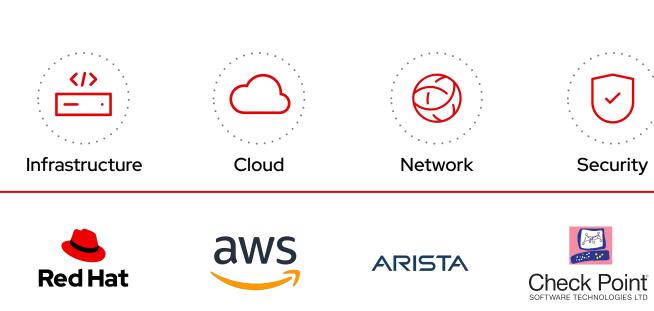
Collections are a data structure containing automation content:

- Modules
- Playbooks
- Roles
- Plugins
- Docs
- Tests





certified platforms





















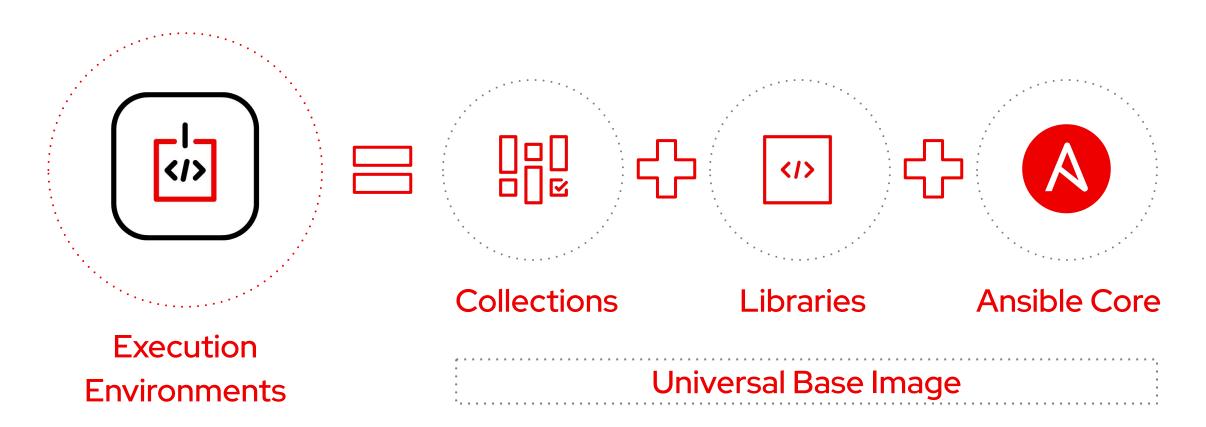
Ansible Execution Environments





Automation Execution Environments

Components needed for automation, packaged in a cloud-native way





Demo:

Building Ansible Execution Environments Using Ansible-Builder

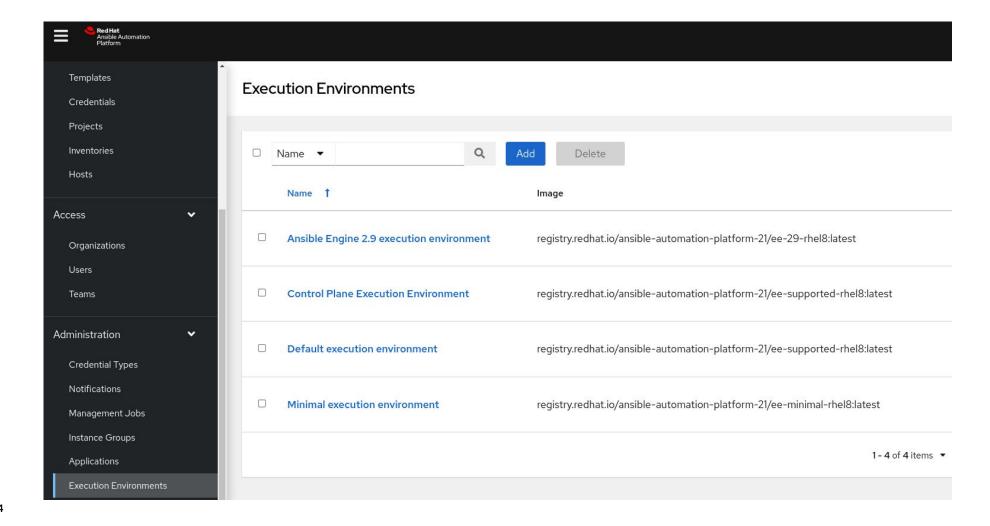


Ansible-Builder Demo Next Steps...

- Display Execution Environment Location in AAP
- Install Ansible-Builder Prerequisites
- Create Ansible Builder Working Environment (Directory and Files)
- Build Execution Environment
- Import Execution Environment into AAP



Execution Environments in AAP





Demo Resources

- GitHub: https://github.com/HaaikeV/demo ansible create ee
- Youtube: https://youtu.be/A9J5km9rlAM





Automation controller. Define, operate and delegate

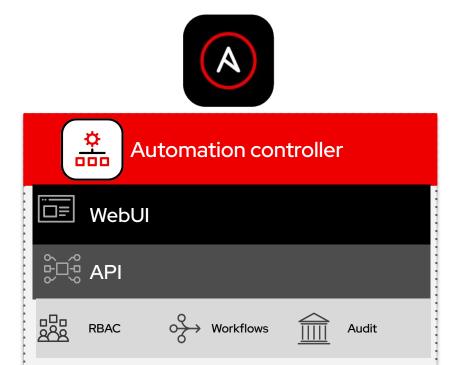


What is it?

Automation controller is the Ansible Automation Platform control plane which enables users to define, operate and delegate automation across their enterprise.

Automation controller provides:

- WebUI and API
- Role-based access control
- Powerful workflows
- Centralized logging
- Credential management
- Push-button automation



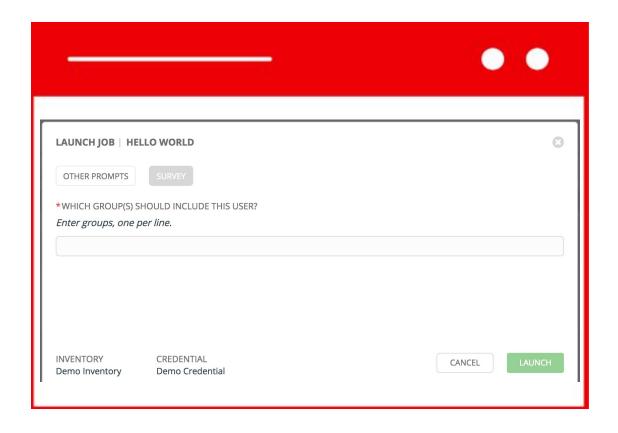


Automation controller surveys. Delegate



What is it?

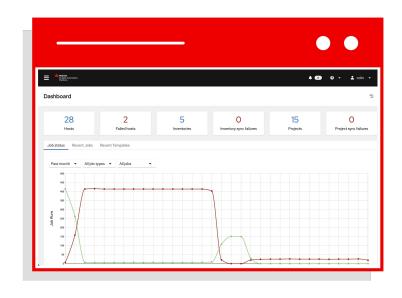
- User-friendly, self-service interface in automation controller.
- Abstracts complexity using question and answer format
- Best suited for teams directly accessing automation and close to the automation practice.
- Access and execution governed using controller features



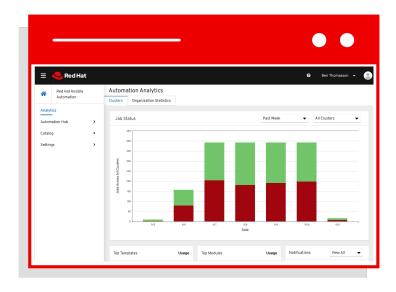


Insights

Understand what is going on



Overview of the actual cluster, the jobs happening, the nodes connected, what works and fails right at this moment.



Overview across clusters, better insight into use cases of automation; insight into adoption of automation per organization.



Reports. Holistic view of your automation performance



What is it?

Unified, visual dashboards of Ansible Automation Platform key metrics across clusters.

- Reveal most used Ansible Playbooks, modules, and deployment pass/fail rates
- ► Filter information based on automation controller clusters in real-time
- Use historical data to predict and improve the automation practice
- Measure the value of your Ansible Automation Platform subscription
- Export reports and share with your organization





Zero to automation in minutes



Runs in your Azure cloud



Fully installed and integrated



Fully supported by Red Hat



Integrated to Microsoft Azure billing



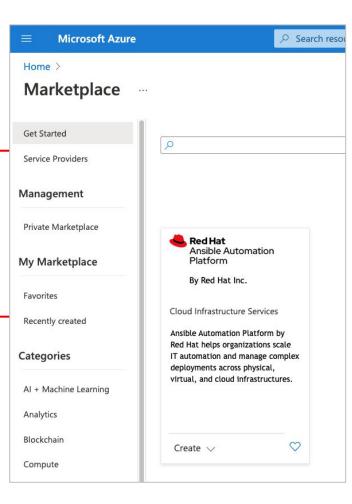
Counts toward spend agreements



Deploy straight from the Azure Marketplace portal



Start managing your Azure resources quickly







Azure Scenarios / Consumption Models

Deploy Ansible Automation Platform Anywhere

Scenario #1

Azure Only

- Deploy in your Azure Cloud, supported by Red Hat
- Manage automation across all Azure resources

Scenario #2

Hybrid Automation

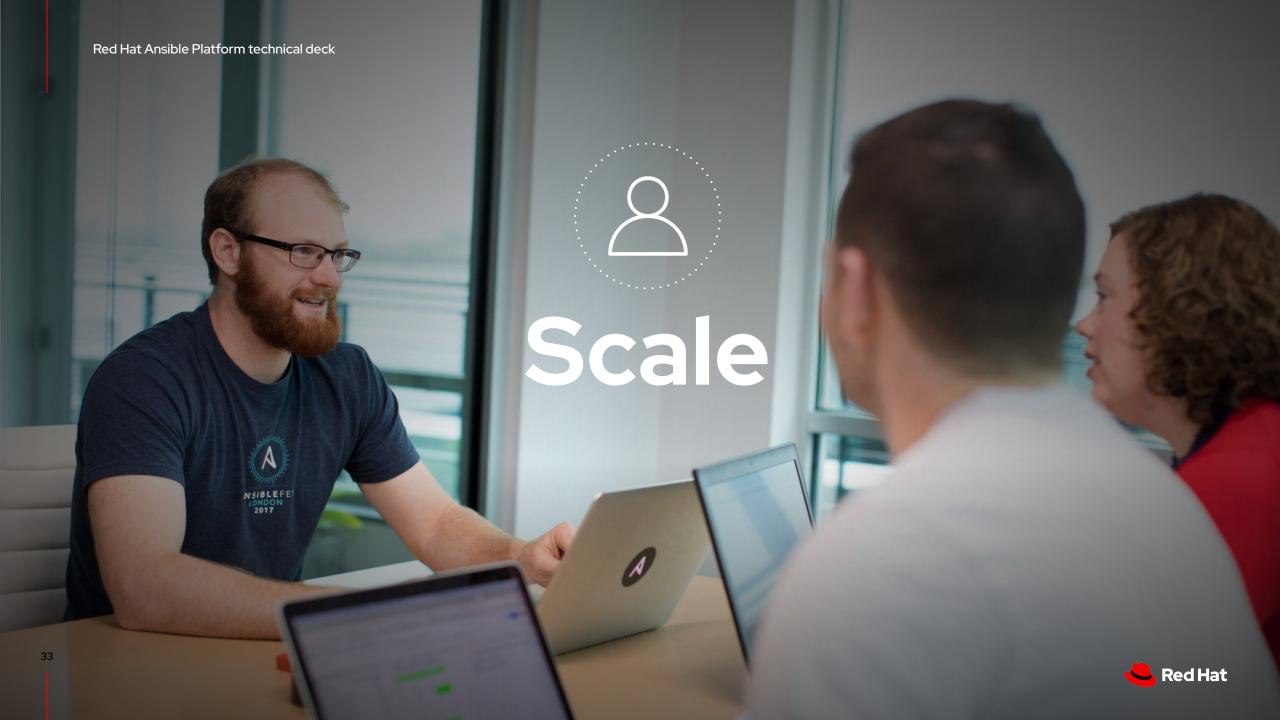
- Deploy in your Azure Cloud, supported by Red Hat
- Manage automation across all Azure resources,

AND

 Extend to on-premises, other public clouds, and into Edge use cases

On Microsoft Azure

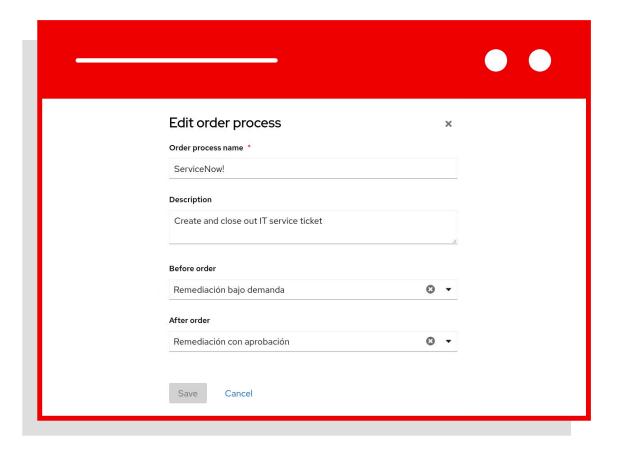




IT service management integration (ITSM)

Incorporate automation into your ITSM

- Integrate high level workflows in existing ITSM toolsets with the automation platform.
- Have the automation platform reach out to the ITSM system whenever things are changing, including data transmission between the tools.









Automation happens when one person meets a problem they never want to solve again



Connect



Thank you



linkedin.com/company/red-hat



facebook.com/redhatinc



youtube.com/user/RedHatVideos



twitter.com/RedHat

