



Introduction to automation controller

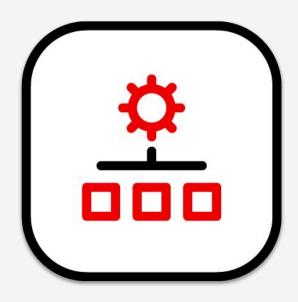
WK1243

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Automation controller

Formerly Ansible Tower





Automation controller. Define, operate, and delegate.

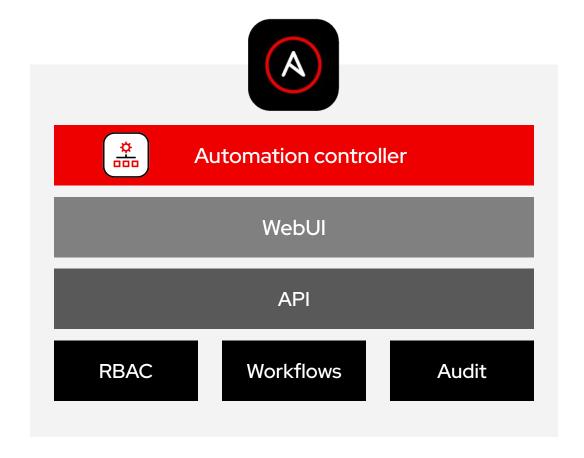


What is it?

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

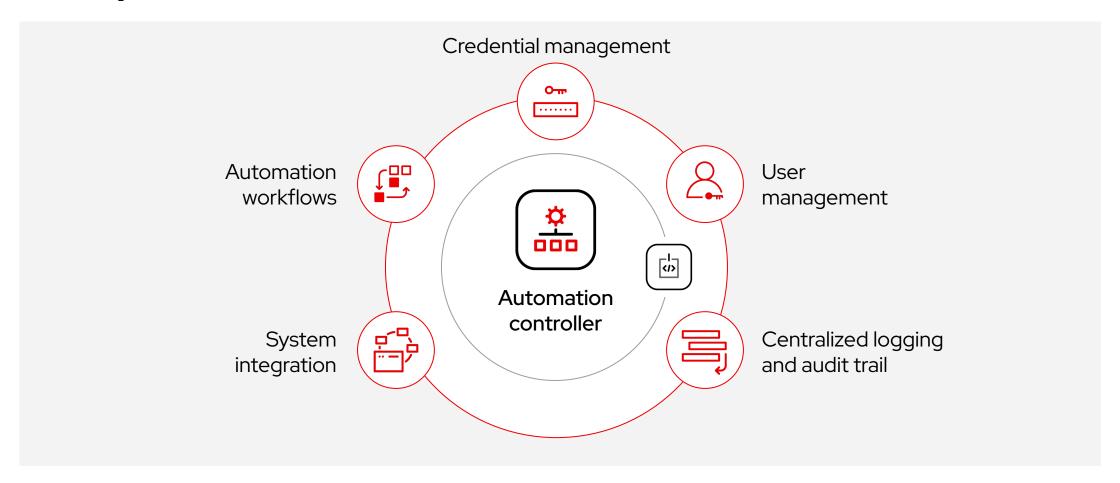
Automation controller provides:

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



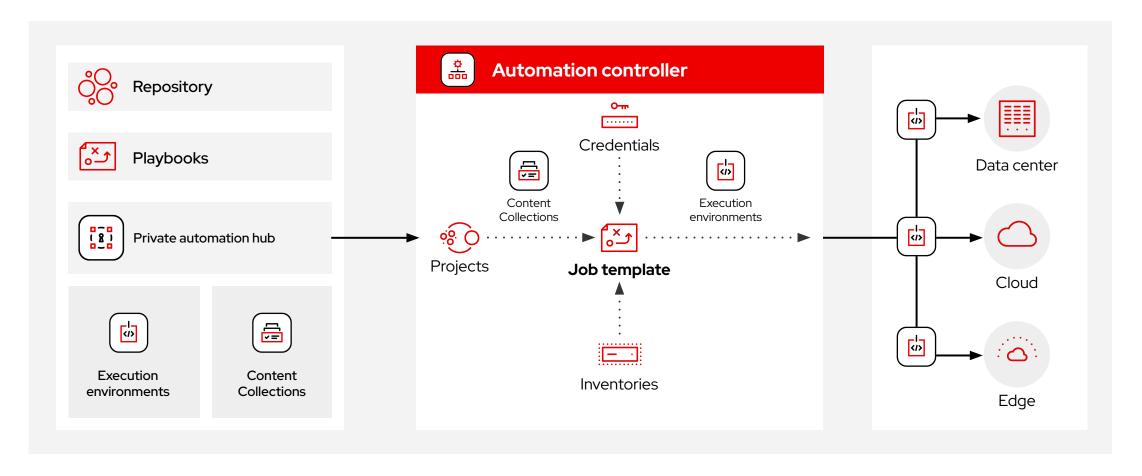


Enterprises need more for their automation.





Defining how your content runs in automation controller.

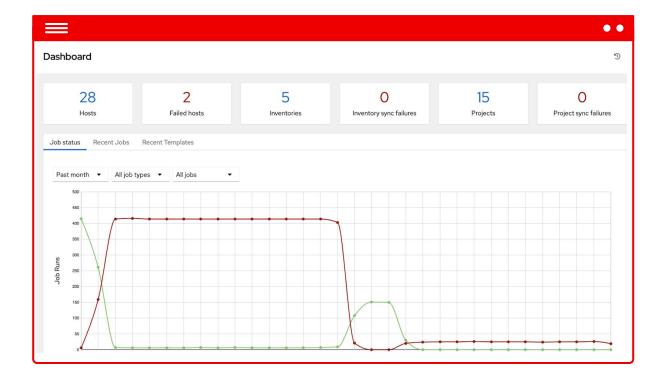




Automation controller dashboard. View your automation status.



- Overview of automation controller, the jobs happening, the nodes connected and what worked and failed
- Provides the ability to quickly spot irregularities and drill into more details





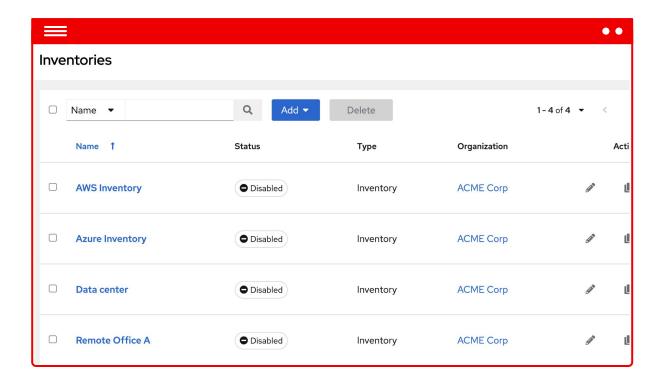
Inventories. What do I want to run my automation on?



What is it?

Collection of endpoints against which jobs may be launched

- Multiple inventory sources supported
- Dynamic endpoint discovery
- Logically group endpoints by metadata or user-defined filters
- Granular RBAC permissions









Create new inventory			©.
Name *	Description	Organization • Q Default	
Instance Groups			
Labels ①			-
Options ☐ Prevent Instance Group Fallback ③			
Variables ③ YAML JSON			×
1			
Save			



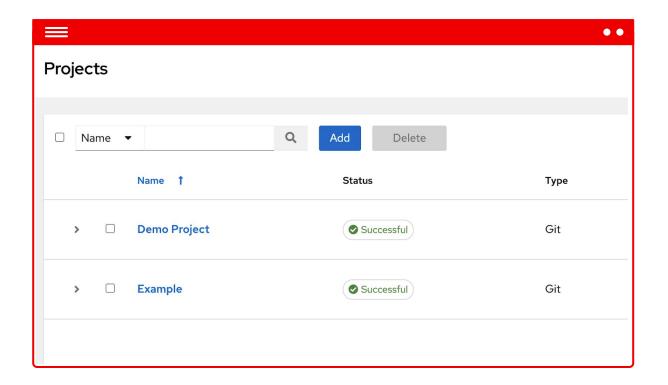
Projects. Adding your automation content to controller.



What is it?

Logical collection of your playbooks:

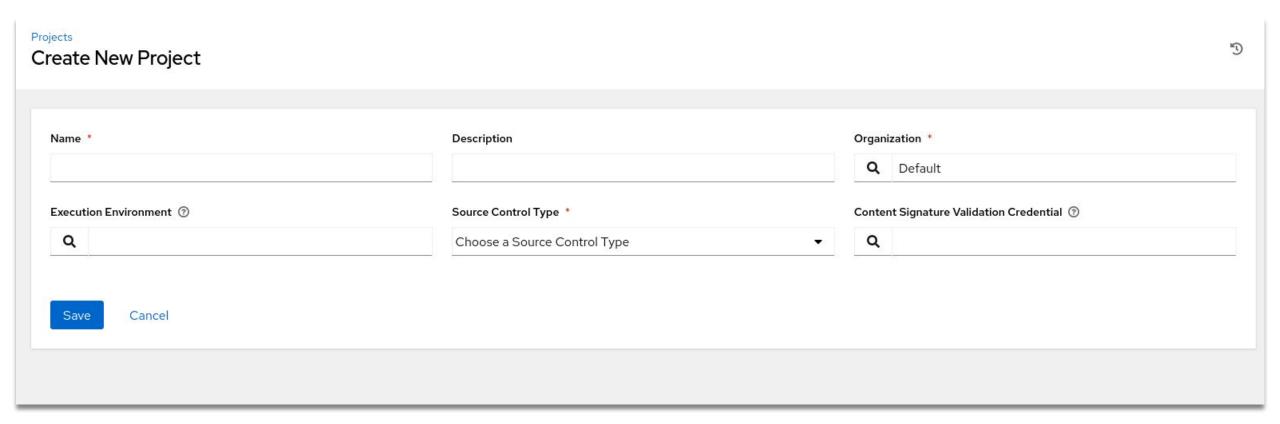
- Multiple source types supported
- Source Control Management (SCM) integration and update strategies
- Red Hat Insights integration
- ► Role-based access control (RBAC) and schedules









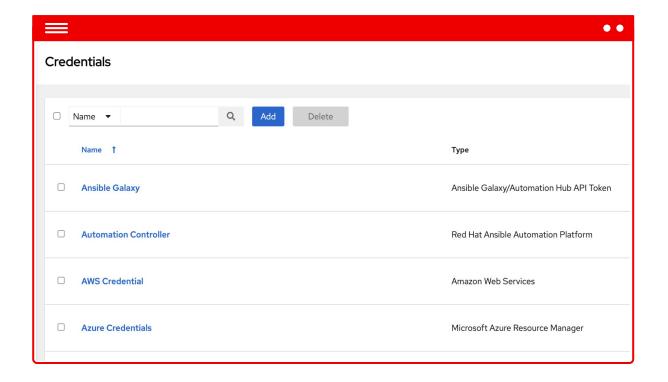




Credentials. Securing resource and endpoint access.



- Securely manage credentials needed for automation resources
- Multiple credential types supported
- Integrate external secret management systems
- Create custom credential types and plugins
- Use RBAC to govern access
- Actual credential never exposed





Credentials. Securing resource and endpoint access.



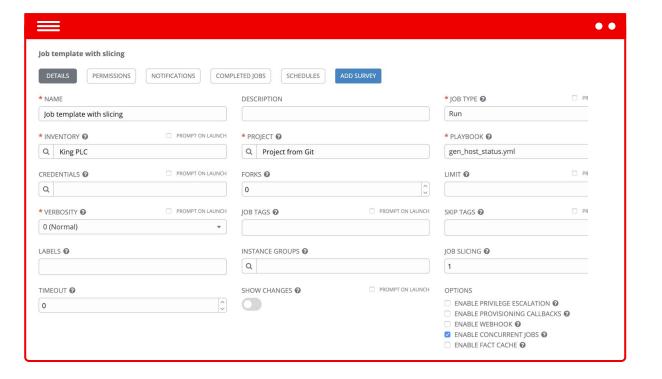
Create New Credential					
Name *		Description		Organization	
				Q	
Credential Type *					
Machine	~				
Type Details					
Username		Password	☐ Prompt on launch		
		**	P.		
SSH Private Key					
Drag a file here or browse to upload					Browse Clear
					,
-					M.



Job Templates. Bringing it all together.



- Define and standardize running automation
- ► Reusable and shareable
- Leverage agile practices, such as GitOps and event-driven automation





Job Templates. Bringing it all together.



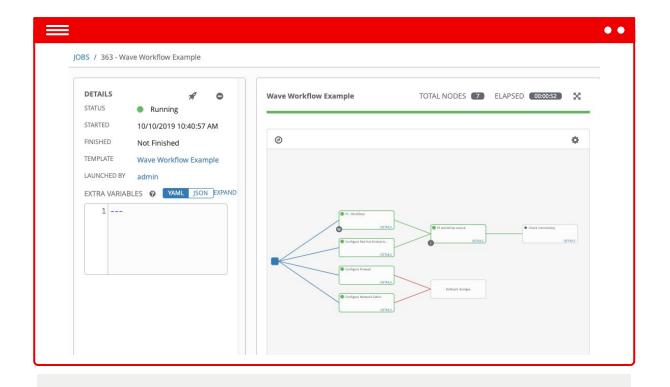
lame *		Description	Job Type * 🗇	☐ Prompt on launch
			Run	
ventory * ③	☐ Prompt on launch	Project * ③	Execution Environment ①	☐ Prompt on launch
Q		Q Demo Project	Q	
hello_world.yml	•			☐ Prompt on launch
	•			☐ Prompt on launch
Credentials ⑦	•			☐ Prompt on launch
Credentials ⑦	•			



Workflows. Solve complex problems.

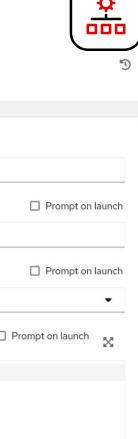


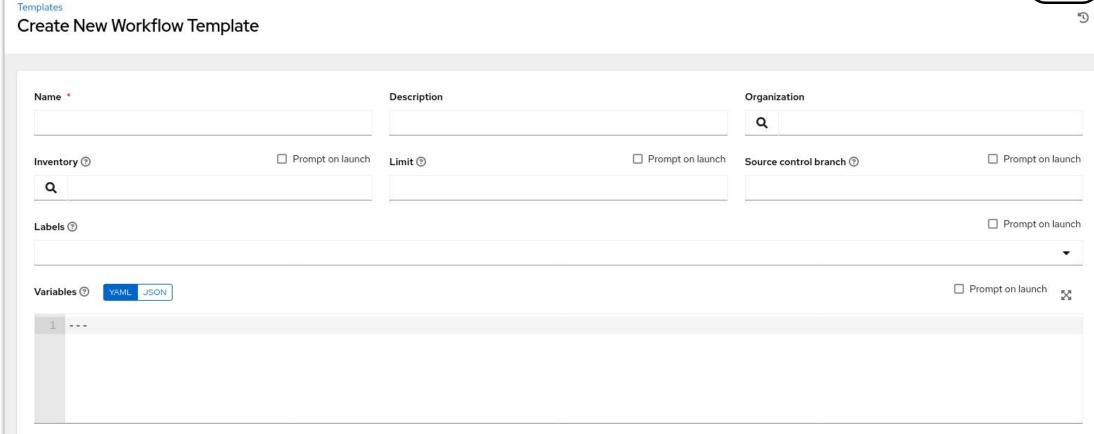
- Workflows enable the creation of powerful holistic automation, chaining together multiple pieces of automation and events
- Simple logic inside these workflows can trigger automation depending on the success or failure of previous steps
- Add approvals to your workflows to enhance governance
- Integrate other systems, such as ITSM to fit with your existing controls and processes





Workflows. Solve complex problems.



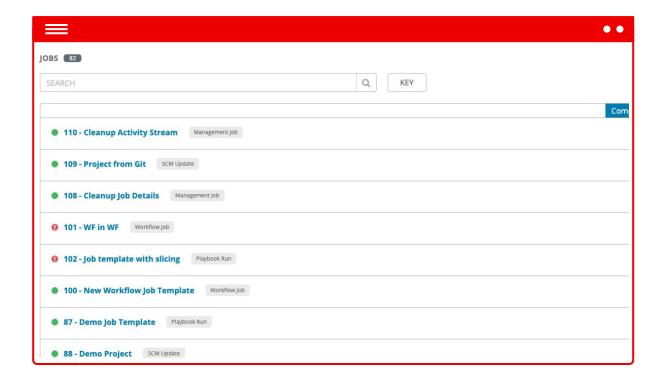




Automation jobs. Executing your defined automation.



- Controller launching an instance of defined automation
- ► Relaunch automation jobs
- Use Job Details to view job outputs
- Troubleshoot automation execution using filtered views

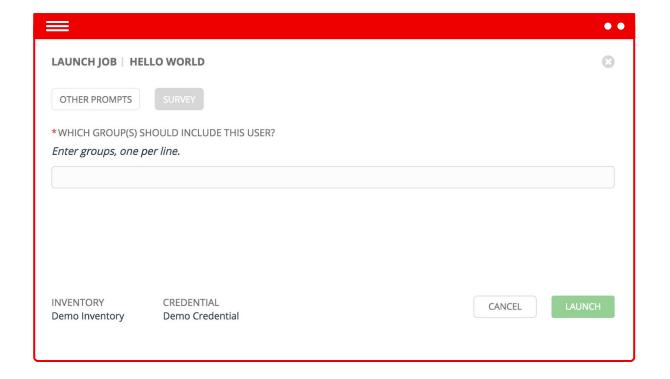




Automation controller surveys. Adopt and grow.

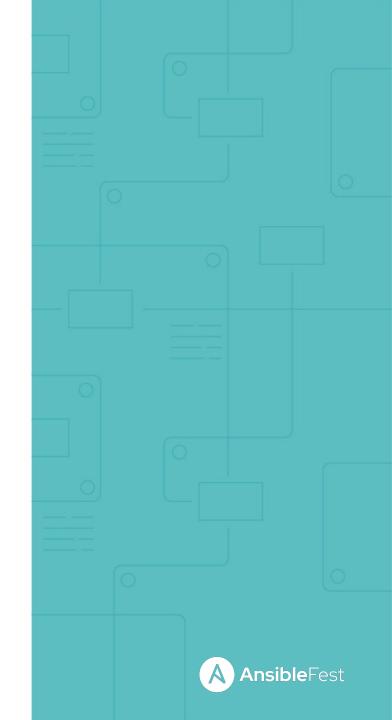


- User-friendly, self-service interface in automation controller
- Abstracts complexity using question and answer format
- Best suited for teams directly accessing automation and close to the automation practice
- Access and execution governed using controller features

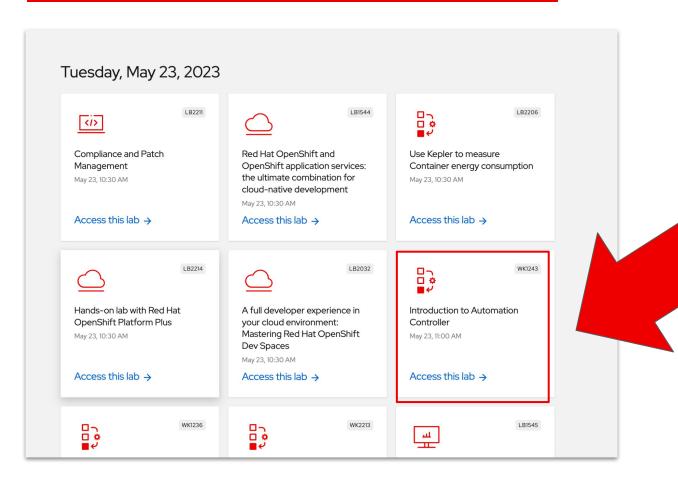




How to use the workshop interface



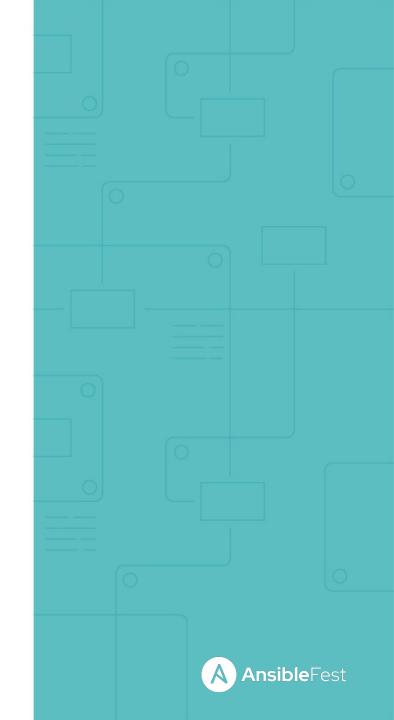
To start the lab visit: summit.demo.redhat.com



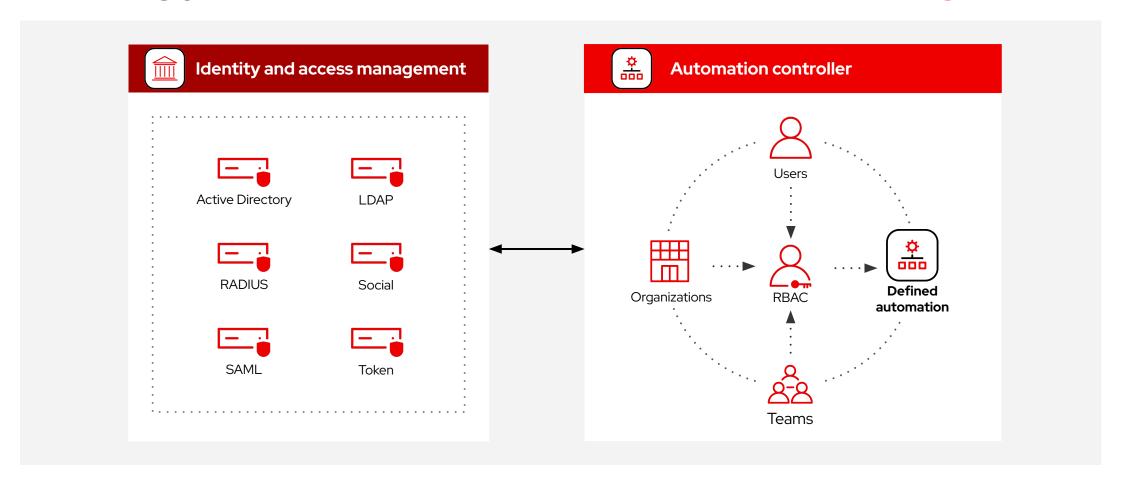


To start the lab visit:

https://labs.demoredhat.com/webpages/controller



Securing your content in automation controller. Delegate.





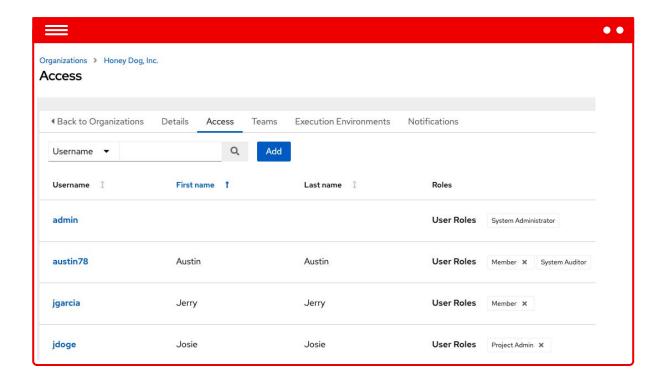
Role-Based Access Control. Who can use my automation?



What is it?

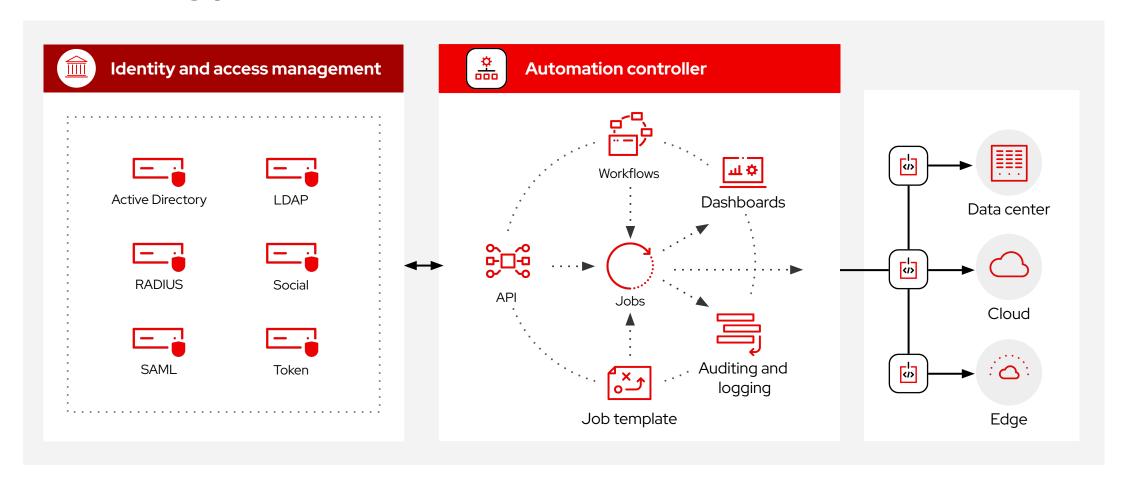
Securely govern access to your automation

- Logically group controller objects and grant users and teams read, execute, edit permissions
- Use predefined roles to grant access
- Integrates with your existing enterprise authentication systems





Launching your content from automation controller.

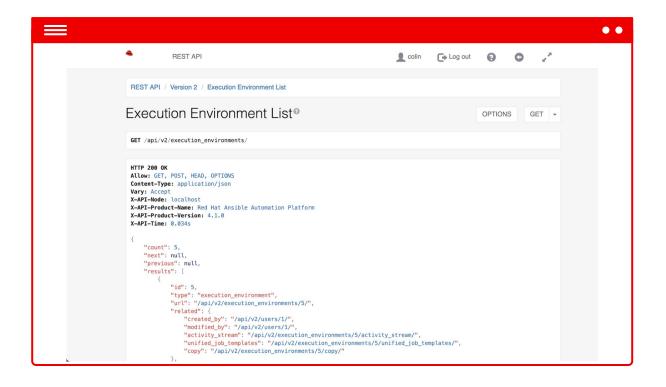




Automation controller API. Integrate and elevate your automation.



- The API provides programmatic access to the automation via a defined interface
- Underneath it is still powered by the same bits and pieces which are at the core: workflows, inventories, etc
- It offers simple integration into other tools like ITSM, SOAR, etc

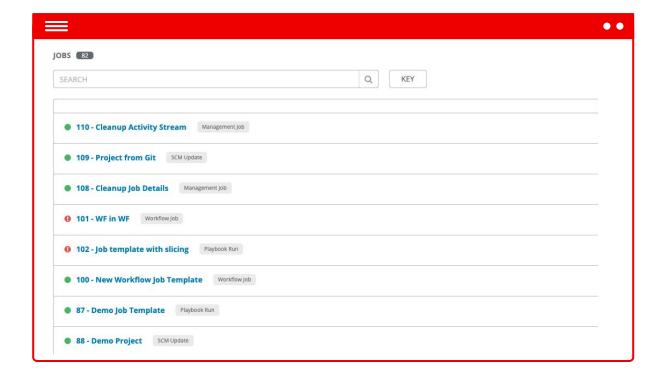




Automation controller logging aggregation.



- Provides the capability to send detailed logs to several kinds of 3rd party external log aggregation services
- Use Red Hat Enterprise Linux rsyslog to aggregate and redirect logs
- Native integration exists for multiple 3rd party logging systems
- Multiple detailed logs are gathered for job events, system facts, users, activity streams, and controller features

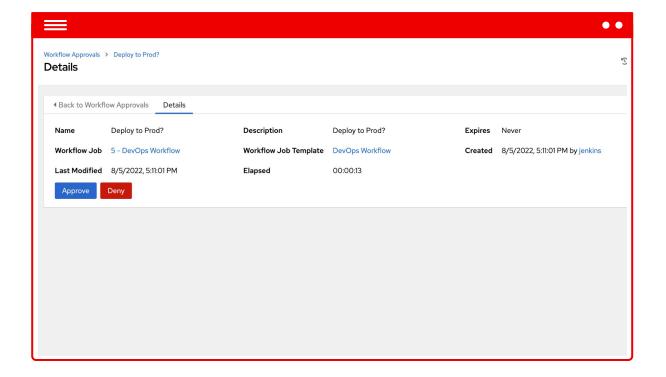




Automation controller approvals. Integrate and govern.



- Adds human interaction to the automation for administration and governance
- Available at the operational level on the Automation controller UI





Using execution environments in automation controller.



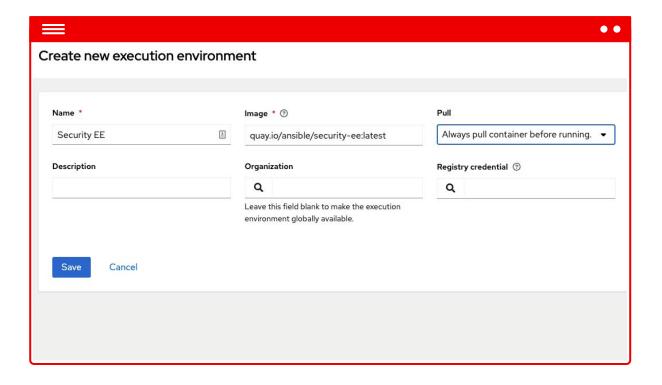
How do I add execution environments (EE)?

EEs can be added via the controller WebUI, API or command line

- Specify the EE image source
- Pull policy determines when and how EEs are downloaded when running automation
- Assign registry credentials to pull the EEs

How do I use execution environments?

- Select the EE you want to use in your automation job
- The default EE is used if none is specified









Thank you

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