Enterprise Automation?
Challenge Accepted!

Pat Harrison
Specialist Solution Architect
Automation Maturity

Level 1
Aware

Level 2
Standardised

Level 3
Proactive

Level 4
Institutionalised

Level 5
Optimised

Infrastructure Silos
Sketchy Inventories
Heavy Focus on Infra Personas
Sole Emphasis on Compute
Long Provisioning Times
Many Manual Steps
Reactive Monitoring

Self Service
Automation Coordinated Across Silos
Handles Multiple Personas
Accurate Dynamic Inventories
Minimal Provisioning Times
Applications Provisioning with Infrastructure
Monitoring With Automated Remediation

Source: Gartner
Key features of an Enterprise Automation Platform

**Enterprise Automation Platform**

- Connect disparate tools & services
- Orchestration
- Ease of Use (service catalogue / surveys)
- Visibility / Metrics
- Enterprise Support
- Collaboration
- Ease of Adoption
- Evolving Features
- Scalability / Growth
- Security & Stability
What is Red Hat Ansible Automation Platform?

Enabling your automation team to consistently...

Create  Manage  Scale
What is Red Hat Ansible Automation Platform?

An integrated solution for the enterprise.

**Content creation tools**
- Ansible content tools
- Execution environment builder
- Automation content navigator
- Ansible content collections

**Operational tools**
- Private automation hub
- Automation controller
- Automation mesh
- Platform operators

**Business Tools and Analytics**
- Red Hat Insights for Ansible
Create
Supported and certified **content you can trust.**

140+
Certified Content Collections

55+
Certified technology partners
Automation execution environments.
Reuse and scale automation content.

Collections  Libraries  Ansible Core

Red Hat Universal Base Image (UBI)
Ansible 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

* ansible-lint is fully supported in Ansible Automation Platform version 2.3
Ansible lint *(ansible-lint)*.
Fully supported (AAP 2.3)

**What is it?**

Command-line tool for linting playbooks, roles and collections aimed towards any Ansible users.

- Promote best practices and patterns.
- Develop consistent code across teams and scale using an opinionated strategy.
- Integrate into larger development workflows and CI tools.
- Helps upgrade playbooks to later Ansible Core versions.
Red Hat Ansible Certified Content

What do I want to automate?

Established integration with Red Hat and 3rd-party platforms
From Red Hat and trusted industry partners
Tested and supported for security, quality, and reliability
Available through console.redhat.com

Ansible validation content

How should I automate it?

Provides an opinionated path for performing operations on Red Hat and 3rd-party platforms
From Red Hat and trusted industry partners
Tested for security, quality, and reliability
Now preloaded in private automation hub
Enterprises need more for their automation.

- Automation workflows
- System integration
- Credential management
- User management
- Centralized logging and audit trail
Automated 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
Secure Automation. Integrate with existing tooling.

Credential Management
- **Builtin** - automation controller provides centralised credential management.
- **If you need more, integrate** - automation controller integrates with existing 3rd party vaults.
  - CyberArk
  - Hashicorp Vault
  - Microsoft Azure Key Vault
  - Centrify Vault

Log Aggregation
- **Stream logs** to existing monitoring systems
  - Splunk
  - ELK
  - Logstash
Content Signing. **Trusted automation supply chain.**

- Signed & Certified Ansible content collections
- Enforce signed content
- Automation hub
- Private automation hub
- Automation controller
- Automation mesh
- Hop node
- Execution nodes

✔ execution environments
✔ Ansible content collections
Scale
Private automation hub. Collaborate, sign, and publish.
What is Red Hat Ansible Automation Platform?

A distributed architecture **built for scale.**
Automation mesh node types. The execution plane.

What is it?
- Dedicated capacity to running playbooks
- Flexible designs possible across geographies and networks
- Resilient to high latency and connection disruptions
- Run automation without direct connection to controller

Execution node
- Dedicated capacity to run automation and no controller runtime functions executed

Hop node
- Dedicated to route traffic across execution nodes not directly connected to controller and cannot run automation
Ansible Automation Platform for ServiceNow solution.

**IT Service Management (ITSM)**
- Create and update records
  - Incident, problem, problem task, change request
- Assign items to user accounts
- Attach files to records
- Advanced queries of record types
- Support for custom mappings (modified choice lists)

**Configuration Management Database (CMDB)**
- Advanced queries of configuration items
- Update configuration items after automated changes
- CMDB as inventory source for automation
- Batch modifications of configuration items
Automate your way - **Single platform.**

**Integrations**

- Terraform
- servicenow™

**Automation controller**

- Credentials
- Workflows
- Dashboards
- Jobs
- Auditing and logging

**Web UI**

**Scheduled Jobs**

**Data center**

**Cloud**

**Edge**
1:00 p.m. - 1:30 p.m.
Stranger Things - Automation beyond servers

2:00 p.m. - 2:30 p.m.
Computacenter - The journey into network automation

3:30 p.m. - 4:00 p.m.
How automation supports your journey to the cloud
Thank you

linkedin.com/company/red-hat
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