



Ansible Automation Platform 2.0:

Early Access Release

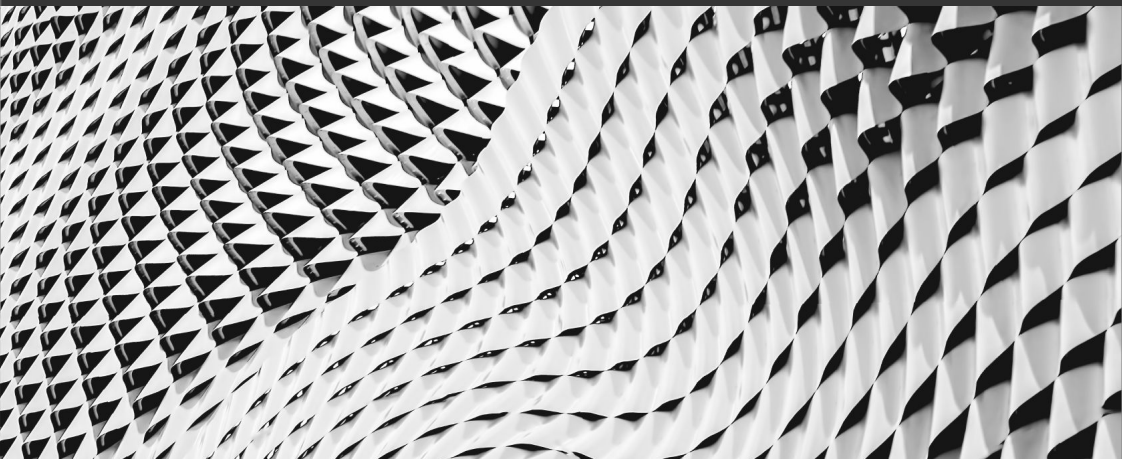


Dan Dobrescu
Architecte de solutions

Ansible Automation Platform 2.0

Ansible Automation
Platform 2.0 released on
July 15, 2021

[https://access.redhat.com/articles/
6145072](https://access.redhat.com/articles/6145072)



Access and deployment of the Ansible Automation Platform 2

- Red Hat Ansible Automation Platform 2.0 is supported on:
 - ◆ Red Hat Enterprise Linux 8.3+ x86_64 (Physical, Virtual)
 - ◆ OpenShift 4.x (Containerized)
- Access Ansible Automation Platform 2.0 via:
 - ◆ Download physical/virtual AAP installer from access.redhat.com
 - ◆ Download containerized [Ansible Automation Platform 2.0 on OpenShift](#) via Operator on Red Hat Marketplace.
 - ◆ Upgrade from AAP 1.2 -> 2.0



Project: ansible-automation-platform

Installed Operators > Operator details

Ansible Automation Platform (early access)
2.0.1+0.1632495515 provided by Red Hat

Details YAML Subscription Events All instances Automation controller backup Automation controller restore Automation cor

Create new

Filter Name Search by name...

Name ↑	Kind ↓	Status ↓	Labels ↓
tower	AutomationController	Condition: Running	<ul style="list-style-type: none">app.kubernetes.io/co... =automationcon...app.kubernetes.io/... =automationcontrol...app.kubernetes.io/name=towerapp.kubernetes.io/operator-version=2.0.1app.kubernetes.io/part-of=tower

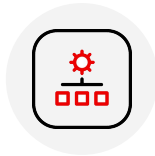
Ansible Automation Platform
(early access)
provided by Red Hat

The Ansible Automation Platfor...

Installed

Accelerate. Orchestrate. Innovate

~~Ansible Tower~~ =>

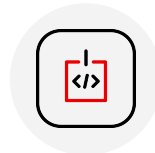


Automation controller

The control plane for automation: includes a UI, RestFul API, RBAC, workflows, and CI/CD integrations, helping teams scale.

~~Ansible Engine~~ =>

Automation execution environments



The execution plane for automation: includes Ansible Core 2.11, Python 3.8, UBI8, and selected Collections, all packaged and used as a container.



Ansible Platform operator

Package, deploy and manage Red Hat Ansible Automation Platform on OpenShift.

Ansible Content Collections



servicenow.

90+ certified, content collections comprised of over 40k modules curated for consistent, compliant delivery.

Automation services catalog



A venue for developers and business users to manage, provision, and retire automation resources. Modeling and delivery made easy.



Automation hub

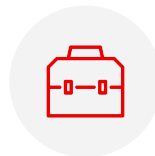
Sync certified Ansible content repositories to on-premises private automation hub, or download directly from automation hub. Available as both a hosted service and privately on-prem.

ansible-builder



The execution environment builder is command line tool leveraging podman that builds Ansible environments inside a container.

ansible-navigator



The automation content navigator is command line tool for **execution environments**. Provides enhanced and familiar experience for Ansible creators.



~~Automation Analytics~~ =>

Red Hat Insights for Ansible Automation Platform

Control, predictive analytics, auditing and reporting for multiple personas across the IT organization. Continuous actionable insights based on holistic view into entire automation stack.











What's in an execution environment (ee) ?



Available execution environments with AAP 2.0

- Minimal (`ee-minimal-rhe18`) - Contains Ansible Core 2.11 built on top of [UBI8](#) and Python 3.8. This image doesn't contain any Collections. You can use this image as the base image to build additional execution environments with your custom Collections or the certified Collections available on Automation Hub.
- Supported (`ee-supported-rhe18`) - This is the default image available with the automation controller. It is built on top of the minimal image and contains [content collections developed, maintained and supported by Red Hat](#).
- Compatibility (`ee-29-rhe18`) - Contains Ansible 2.9 and all the required ansible dependencies. This image is best for customers who are planning to migrate from Ansible Automation Platform 1.2 to 2.0.

Available execution environments with AAP 2.0

<input type="checkbox"/>	Ansible Engine 2.9 execution environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-29-rhel8:2.0.1	Globally Available		
<input type="checkbox"/>	Control Plane Execution Environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-supported-rhel8:2.0.1	Globally Available		
<input type="checkbox"/>	Custom ansible image	registry.redhat.io/ansible-automation-platform-20-early-access/ee-supported-rhel8:2.0.0	Globally Available		
<input type="checkbox"/>	Default execution environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-supported-rhel8:2.0.0	Globally Available		
<input type="checkbox"/>	Minimal execution environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-minimal-rhel8:2.0.1	Globally Available		

Demo: AAP2 GUI - PatternFly 4

The screenshot shows the 'Edit Details' page for a template named 'Install Apache'. The page is part of the 'Templates > Install Apache' section. The form includes the following fields:

- Name:** Install Apache
- Description:** (empty)
- Job Type:** Run
- Inventory:** Workshop Inventory
- Project:** Git Repo RHUG
- Execution Environment:** Default execution environment
- Playbook:** rhel/apache/apache_install.yml
- Credentials:** SSH: Workshop Cred...
- Labels:** (empty)
- Variables:** (empty)

The left sidebar contains the following navigation items: Workflow Approvals, Resources (Templates, Credentials, Projects, Inventories, Hosts), Access (Organizations, Users, Teams), Administration (Credential Types, Notifications, Management Jobs, Instance Groups, Applications, Execution Environments), and Settings.

The screenshot shows the navigation sidebar of the AAP2 GUI. The sidebar is dark-themed and contains the following items:

- Workflow Approvals
- Resources
 - Templates
 - Credentials
 - Projects
 - Inventories
 - Hosts
- Access
 - Organizations
 - Users
 - Teams
- Administration
 - Credential Types
 - Notifications
 - Management Jobs
 - Instance Groups
 - Applications
 - Execution Environments

The screenshot shows the 'Execution Environments' page. The page displays a table of execution environments with the following columns: Name, Image, Organization, and Actions. The table contains 5 rows of data:

Name	Image	Organization	Actions
Ansible Engine 2.9 execution environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-29-rhel8:2.0.1	Globally Available	[Edit] [Delete]
Control Plane Execution Environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-supported-rhel8:2.0.1	Globally Available	[Edit] [Delete]
Default execution environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-supported-rhel8:2.0.0	Globally Available	[Edit] [Delete]
Minimal execution environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-minimal-rhel8:2.0.1	Globally Available	[Edit] [Delete]
rhel workshop execution environment	registry.redhat.io/ansible-automation-platform-20-early-access/ee-supported-rhel8:2.0.0	Globally Available	[Edit] [Delete]

The page also includes a search bar, an 'Add' button, and a 'Delete' button. The bottom right corner shows pagination information: 1 - 5 of 5 items, 1 of 1 page.

Demo: Ansible-builder

- `ansible-builder build --tag my_first_ee_image --container-runtime podman`
- ansible-navigator images

```
[student1@ansible-1 builder]$ cat execution-environment.yml
---
version: 1
dependencies:
  galaxy: requirements.yml

additional_build_steps:
  prepend: |
    RUN pip3 install --upgrade pip setuptools
  append:
    - RUN ls -la /etc
```

```
[student1@ansible-1 builder]$ cat requirements.txt
awxkit>=13.0.0
boto>=2.49.0
botocore>=1.12.249
boto3>=1.9.249
openshift>=0.6.2
requests-oauthlib
[student1@ansible-1 builder]$ cat requirements.yml
---
collections:
  - ansible.security
  - ericsysmin.system
```

Demo: Ansible-navigator

- `ansible-navigator run apache.yml -i /home/student1/lab_inventory/hosts`
- `ansible-navigator run package.yml -m stdout`

```
ansible-navigator:
ansible:
  inventories:
  - /home/student1/lab_inventory/hosts

execution-environment:
  image: registry.redhat.io/ansible-automation-platform-20-early-access/ee-supported-rhel8:2.0.0
  enabled: true
  container-engine: podman
  pull-policy: missing
  volume-mounts:
  - src: "/etc/ansible/"
    dest: "/etc/ansible/"
    label: "Z"
```

RESULT	HOST	NUMBER	CHANGED	TASK	TASK ACTION	DURATION
0 OK	node1	0	False	Gathering Facts	gather_facts	1s
1 OK	node1	1	True	latest Apache version installed	yum	3s

Red Hat Ansible Automation Platform, compared

1.2

Ansible Tower 3.8

- Physical, virtual, containerized installs
 - RHEL 7 or RHEL 8
 - Container Groups (Tech Preview)
- Ansible Engine 2.9
 - Python Virtual Environments
- PostgreSQL 10
- Custom Angular User Interface
- Collections introduced
- Isolated node support

Private Automation Hub 4.2

2.0

Automation controller 4.0

- Physical, virtual, containerized installs
 - RHEL 8 only
 - Container Groups (Fully Supported)
- Automation execution environments (3)
 - UBI8 + Python 3.8 + Ansible Core 2.9/2.11
- PostgreSQL 12
- Standardized Patternfly 4 User Interface
- Collections enhanced and standardized
- Automation mesh coming soon (AAP 2.1)

Private Automation Hub 4.3

- Execution environment support
- Container registry support

Automation content navigator 2.0 (NEW)

Execution environment builder 2.0 (NEW)

Merci

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

 [linkedin.com/company/red-hat](https://www.linkedin.com/company/red-hat)

 [youtube.com/user/RedHatVideos](https://www.youtube.com/user/RedHatVideos)

 [facebook.com/redhatinc](https://www.facebook.com/redhatinc)

 twitter.com/RedHat