

Streamlining the Ansible creator experience with the Ansible Development tools

Ganesh Nalawade

Software Engineer

GitHub: @ganeshrn, Matrix: ganeshrn:ansible.im

LinkedIn: https://www.linkedin.com/in/ganeshrn/

Agenda

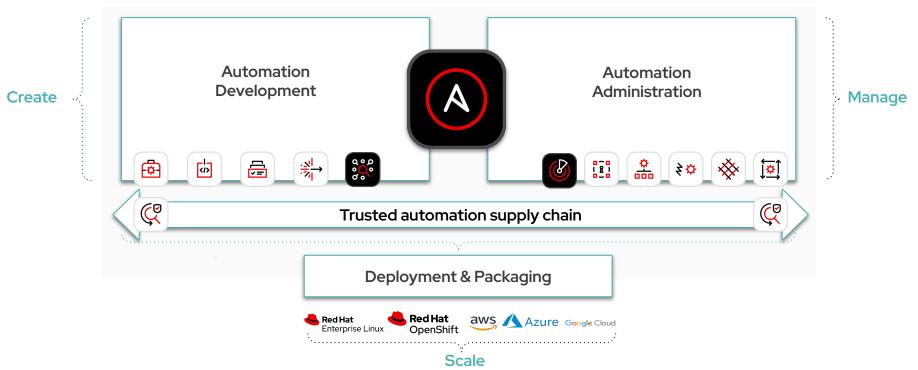


- Why Ansible development tools (ADT)
- What is included in ADT?
- Enhanced capabilities of Ansible VS Code extension
- Working with Ansible development container
- Demo Time
- Roadmap

Red Hat Ansible Automation Platform



A unified solution for strategic automation



Create with Ansible Automation Platform



Enable your automation community of practice





0°0°

Ansible content collections

Set automation projects into motion

Ready-made roles, modules, plug-ins, and templates

Ansible development tools

Suite of supported components

Build, test, and deploy Ansible content

Ansible plugins for Red Hat Developer Hub

Curated learning paths, push-button content creation, integrated development tools, and more

Educate new users and boost experienced users





Ansible development container

Includes Ansible development tools Works with VS code integration, and Ansible Al connect service

Ansible Al connect service

Collaboration with IBM to bring generative AI to Ansible

Faster and easier Ansible content creation

Why Ansible development tools?



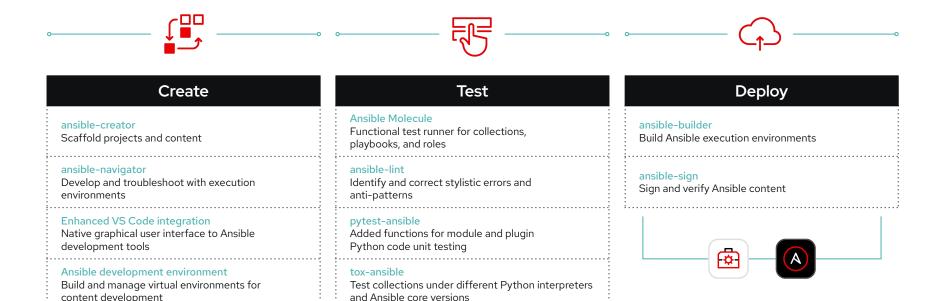
Some of the Quotes from Ansible DevTools 2024 Survey

- Multiple Tools with no clear use case, everything does sort of the same.
- Too many options, sometimes lack of standards, especially hard for newcomers.
- How to structure an Ansible project?
- I'm new to coding overall and the ansible lint extension for vscode marks up a lot of errors even though it works. It's enjoying and I don't know how to interpret the feedback I get from the linter.

What is included in Ansible development tools (ADT)



Supported and enterprise-grade components to enable creating, testing, and deployment of Ansible



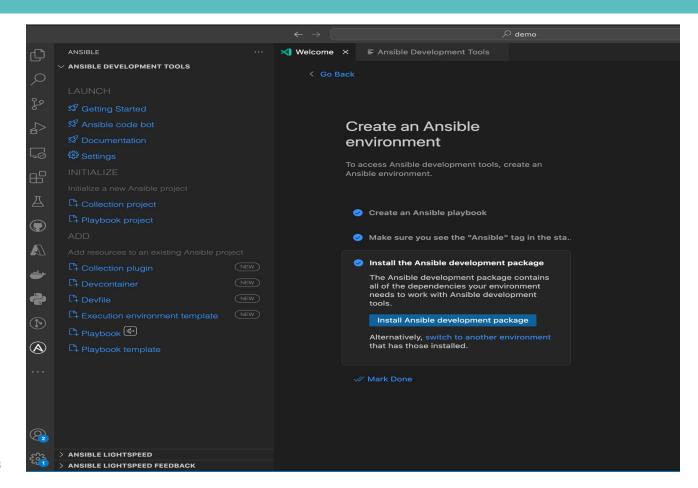
Ansible VS Code extension



- Supports language specific features in editor
 - auto-completion
 - o goto
 - syntax highlighting
 - diagnostics (validations)
- Supports working with execution environments
- Enhanced webviews to work with Ansible command lines tool (eg. ansible-creator, ansible-builder and so on)
- Al based code generation and explanation

Ansible VS Code extension





Working with Ansible development container

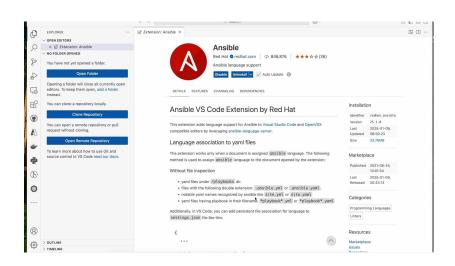


- Development containers, or dev containers, are containers that are specifically configured to provide a fully featured development environment.
- VS Code provides native integration for working with dev containers.
 https://marketplace.visualstudio.com/items?itemName=ms-vscode-remote.remote-containers
- Ansible development container offers a powerful, consistent environment for Ansible development.
- Supports non-RHEL users (e.g. Windows systems) making it accessible to a broader audience.

https://github.com/ansible/ansible-dev-tools/pkgs/container/community-ansible-dev-tools



Demo Time



Ansible development tools Roadmap



Ansible development tools (ADT)

Now

Creator add subcommand

Scaffolding content – action, filter, test, action, module etc – into an existing project.

Make Molecule collection aware

Optimize Molecule for collection testing use cases and improve upon "bolted on" functionality.

Near term

Enhance Ansible roles portability & maintainability

Optimize Ansible role management and adoption for scalable, effective automation.

Lint rules for roles in collections

Extend ansible-lint rules to promote putting roles in collections, better documentation, use arg_specs.

ADE Collection Dependency Functionality

Unified downloads of collection dependencies across multiple tools.

Long term

Revisit role2collection migration utility

Update and enhance tooling to assist in migrating standalone roles to collections.

Collection sanity testing function

Provide an alternative to ansible-test tooling.

Ansible content collections publishing function

Provide a supported means of publishing Ansible content collection to a private automation hub or Ansible Galaxy.

Creator generate subcommand

Generate API-based Ansible modules and plugins.

Podman Desktop extension

Provide a Podman Desktop extension of the ADT command line tools for "command line jockeys."

Ansible development tools Roadmap



Ansible VS Code Extension

Now

Continue Creator tool UI integration

Provides a Web UI to all the ansible-creator functions and options that is tied to the new welcome experience.

EE Builder Web UI

Provide a UI to enable developers to more easily build EEs in VS Code.

Near term

Content Browser

Display the docs for plugins, collections and roles within the extension in a webview.

EE UX

Provide an enhanced UX for learning, creating, testing, debugging and using EEs in AWX.

Initial EDA support

Begin introducing preliminary support for ansible-rulebook and EDA development with the possibility of more later.

Long term

Policy as Code Support

Provide feature and functionality to support Ansible policy-as-code (PoC) testing during development.



Anyone can contribute. We are all community.

Join the forum to participate in discussions and get help!

Want to contribute? Find out how to get involved.







Thanks!

GitHub: @ganesh634

Matrix: #community:ansible.com #ganeshrn:ansible.com

Ansible community forum:

https://forum.ansible.com/