

Red Hat
Summit

 AnsibleFest

Devtools updates covering Ansible VSCode extension

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Agenda

- ▶ Why use VSCode Ansible extension?
- ▶ New Features added to Ansible VSCode extension and Ansible language server
- ▶ Demos
- ▶ Upcoming feature pipeline
- ▶ Feedback
- ▶ Questions



Why use VSCode Ansible extension?


- Ansible language server extension
- Provides Ansible syntax highlighting
- Auto-completion for
 - Ansible Keywords
 - Hostnames (including for dynamic inventory)
 - Task name along with valid options
- Provide Hover functionality to quickly get task/options description

Why use VSCode Ansible extension?

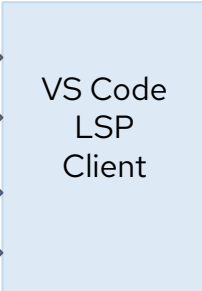
- Goto functionality to browse complete module documentation
- Highlights problems in playbook (diagnostic) using one of:
 - `ansible-lint`
 - `ansible-playbook --syntax-check`
- Works with Ansible execution-environments
- AI based task suggestions from natural language prompts (closed beta)

Why use language server?

Language server protocol




- Hover API
- Completion API
- Diagnostics API
- Other language feature API

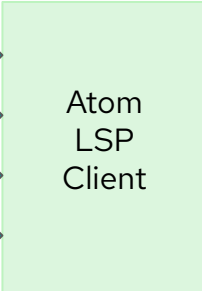


VS Code LSP Client

Four blue double-headed arrows connect the VS Code LSP Client to the list of APIs on the left.




- Hover API
- Completion API
- Definition API
- Other language feature API



Atom LSP Client

Four teal double-headed arrows connect the Atom LSP Client to the list of APIs on the left.



Ansible language server

- doHover()
- doCompletion()
- doValidate()
- doSemanticTokens()

Four blue lines connect the VS Code LSP Client to the Ansible language server, and four green lines connect the Atom LSP Client to the Ansible language server.

AI Based tasks Suggestions

- AI based task suggestions from natural language prompts (currently in closed beta)
 - Sign up
 - <https://www.redhat.com/en/engage/project-wisdom#sign-up>
 - Sessions:
 - The automation moment—and beyond (Keynote)
 - Tuesday, May 23 1:00 PM - 2:00 PM EDT
 - Automation intelligence with Project Wisdom (Workshop)
 - Tuesday, May 23 3:00 PM - 4:30 PM EDT
 - Thursday, May 25 8:30 AM - 10:00 AM EDT
 - Empowering automation developers: Bringing the power of AI to Ansible with Project Wisdom (Interactive session)
 - Wednesday, May 24 11:30 AM - 12:15 PM EDT

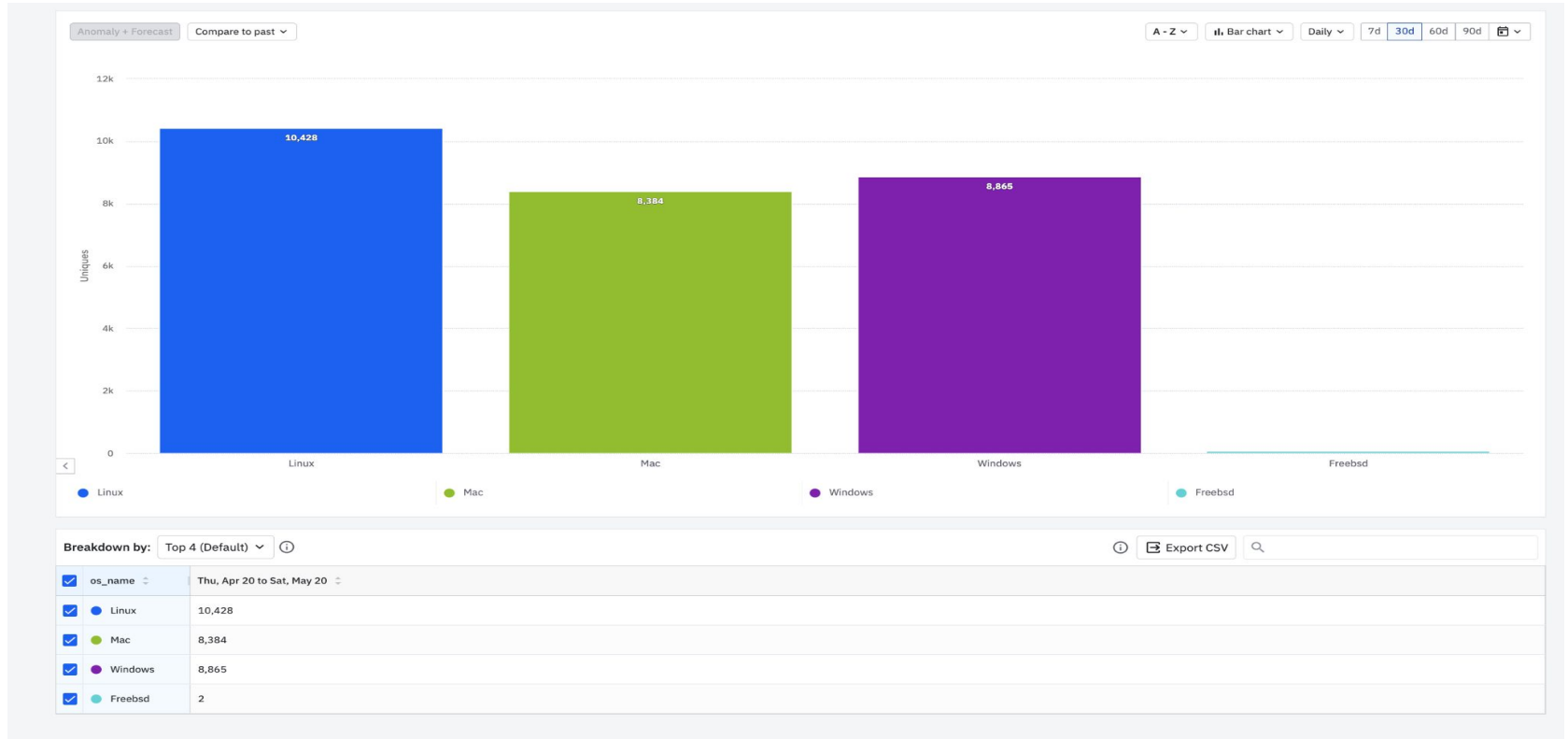
Opt-in telemetry gathering

- Anonymised telemetry to improve user experience.
 - Ansible core version
 - ansible-lint version if installed and enabled
 - ansible-playbook command runs successfully or fails.
 - ansible-navigator run command runs successfully or fails.
 - ansible-language-server start
 - errors during ansible-language-server start
 - any errors from LSP requestsand more
- https://github.com/ansible/vscode-ansible/blob/main/USAGE_DATA.md

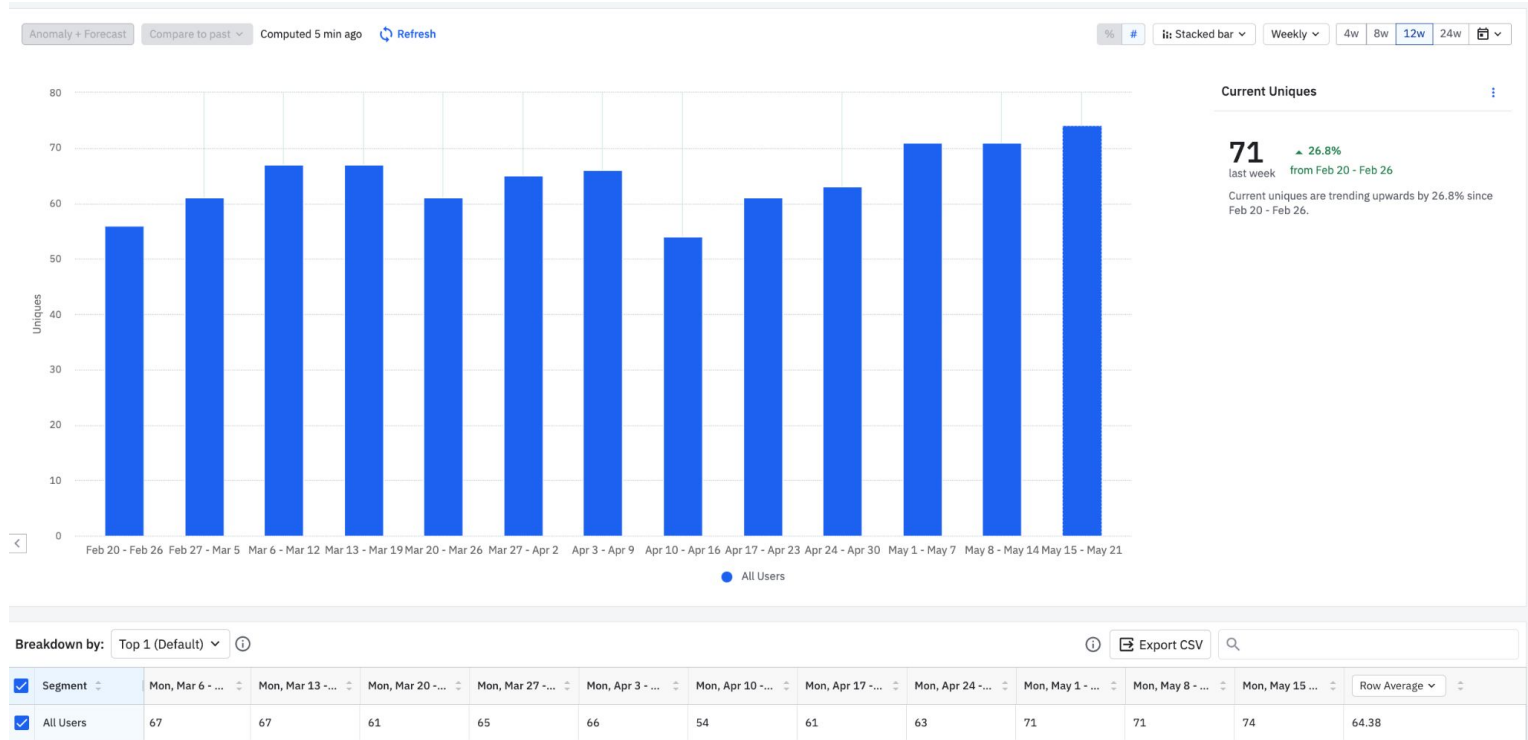
Monthly unique downloads



Usage based on OS



Usage with Execution environment



Other Features

- Easy discovery of Python interpreter and Ansible executables
- Ansible hosts value autocompletion
 - Supports both Static and Dynamic inventory
- Ansible metadata information in status bar
- Auto association of Ansible file type to an open document
 - File path patterns
 - Double extensions
 - Modeline association at the top of file
 - yaml/yml file introspection

Other Features

- ansible-lint rule documentation link in problems tab
- Trigger playbook run from IDE with execution-environments
- New setting to allow custom volume mount and pass container options while working with execution environment
- Schema validation support for ansible-navigator configuration file
- Allow setting to enable/disable validations (diagnostics) and move all validation settings under "***ansible.validation***"

Upcoming Features in pipeline

- Webview panel in Ansible extension to integrate with Ansible content scaffolding tools
- Ansible tox plugin integration in the VSCode test explorer view
- Ansible variables autocompletion within jinja2 scope
- Auto-completion for playbook adjacent collections
- Auto-completion for connection plugins
- Add debugging functionality within IDE for ansible-playbook/runs

Questions/Feedback

Contact

Matrix: [#devtools:ansible.com](#) | IRC: [#ansible-devtools](#)



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