watsonx Code Assistant for Red Hat Ansible Lightspeed

Create Ansible content more efficiently with generative AI

Highlights

Accelerates Ansible content creation with generative AI

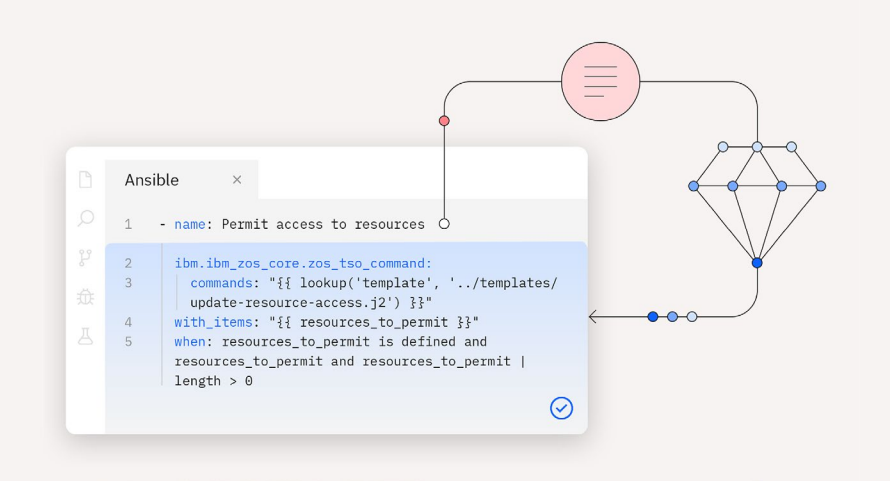
Enhances the quality of Ansible content with greater efficiency

Narrows the IT skills gap by accelerating user onboarding

Provides transparency to identify potential data sources

Today's hybrid cloud architectures require automation to rapidly scale IT environments. Many IT operations and development teams use Red Hat® Ansible® Automation Platform to configure systems, deploy software and orchestrate advanced IT workflows. Ansible Playbooks define automation tasks that dictate how resources are created, managed and scaled across the entire enterprise. By applying generative AI (gen AI) to create Ansible Playbooks, IT teams can accelerate user productivity and drive greater operational efficiency across the organization.

Powered by IBM® Granite™ code models, IBM® watsonx Code Assistant™ for Red Hat Ansible Lightspeed can help simplify the process of Ansible Playbook creation through gen AI-powered content recommendations. Tailored for Ansible content developers, the solution is designed to generate syntactically correct and contextually relevant content using natural language requests written in plain English text, helping scale and expand access to automation across the business. IBM Granite code models only use a fraction of the compute and inferencing capacity of general-purpose models, helping you cut costs and reduce the carbon footprint for your enterprise workloads' performance requirements.



↑45%

improvement in initial build productivity for Ansible Playbooks

60%

of IBM's Ansible Playbook content was automatically generated by watsonx Code Assistant for Red Hat Ansible Lightspeed in tech preview

Accelerates Ansible content creation with generative AI
Quickly generating Ansible code can be a challenge for users of any skill level. Watsonx™ Code Assistant for Red Hat Ansible Lightspeed helps simplify and accelerate Ansible content creation, with organizations reporting a reduction in time to value for automation and improved content cycles, resulting in productivity improvements of up to 45%.[1] The solution transforms natural language inputs into Ansible Playbook content, handling both single and multitask prompts.

Enhances the quality of Ansible content with greater efficiency
Ensuring high-quality code is essential, and assumptions aren't an option. Watsonx Code Assistant for Red Hat Ansible Lightspeed utilizes IBM Granite code models trained on Ansible data and playbooks to generate AI recommendations for syntactically correct code, enhancing code quality. Model customization helps tailor the content recommendations by tuning the base IBM Granite model with an organization's Ansible data, to reflect its best practices and coding standards. This level of customization helps ensure that the AI-generated content aligns with an organization's unique coding standards and practices, facilitating consistent, efficient and high-quality code outputs. Users can accept or modify AI suggestions to meet their exact needs for optimized coding.

Narrows the IT skills gap by accelerating user onboarding
Use watsonx Code Assistant for Red Hat Ansible Lightspeed to meet developers where they are by integrating AI content recommendations directly into their integrated development environment (IDE). The solution allows for full Playbook generation and explanation using natural language prompts, simplifying the process of creating and understanding Ansible content. In a recent pilot, the IBM CIO Organization achieved 60% of the initial build of an Ansible Playbook using recommendations from watsonx Code Assistant for Red Hat Ansible Lightspeed, increasing developer productivity and reducing the learning curve.[2]

Provides transparency to identify potential data sources
Gain transparency into how your content was created with clear references to the potential sources of content recommendations, including the author and license, through code similarity. This allows developers a better understanding of the origin of every suggestion to promote transparency and trust in the gen AI model.

Conclusion
Watsonx Code Assistant for Red Hat Ansible Lightspeed uses gen AI to accelerate Ansible content creation while maintaining the principles of trust, security and compliance at its core. IT operators and development teams at any skill level can speed up application modernization efforts and generate Ansible content to rapidly scale automation across IT environments.

Why IBM?
As a trusted global brand, IBM has an impressive track record of helping clients through digital transformation, focusing on areas that yield the biggest impact on their business and positively influencing their corporate culture with technology. With unparalleled experience in solving some of the world's largest business problems, IBM offers solutions and expertise wherever you are on your AI journey.

For more information
To learn more about IBM watsonx Code Assistant for Red Hat Ansible Lightspeed, contact your IBM representative or IBM Business Partner, or visit ibm.biz/BdmzdT.

You can also book a live demo with one of our experts.

1. IBM case study: Transforming the way developers learn and work, October 2023.
2. IBM case study: Using generative AI reduced playbook development effort by over 50% in IBM CIO Organization Pilot, October 2023.

IBM Corporation
New Orchard Road
Armonk, NY 10504

Produced in the
United States of America
September 2024