

IBM watsonx Code Assistant for Red Hat Ansible Lightspeed

Competitive Overview

Chetan Hireholi
Product Manager, watsonx Code Assistant
chetan.hireholi@ibm.com

Grace Williamson
Product Manager, watsonx Code Assistant
grace.williamson@ibm.com

IBM and Business Partner
Internal Use Only



Reinventing how work gets done

IBM watsonx Code Assistant

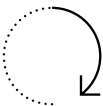
Write content faster
with AI-generated
recommendations
based on natural
language inputs

Proven results:

30%

Faster time to value in IT
Automation leveraging Ansible

Accelerate content
development through
AI-powered natural
language processing and
increase developer
productivity.



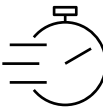
Enhance the quality
of content with greater
efficiency and
improved accuracy.



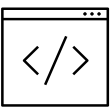
Narrow the IT skills gap
by accelerating
developer onboarding,
making software
development more
accessible.



Reduce time to value for
automation and improve
development cycles with
AI content
recommendations.



Maintain high levels
of accuracy and
transparency through
data source attribution.



Tune the watsonx
foundation model
with your own data
set to apply
organizational best
practices.



IBM watsonx Code Assistant for Red Hat Ansible Lightspeed Competitive Differentiation



GitHub Copilot

GitHub is owned by Microsoft and is positioned as a generative AI code suggestion tool. Copilot offers direct integration with IDEs, can adapt to individual coding styles, and is available to individuals and enterprises.

- Foundation model is trained on code sourced from public Git repos. No guarantees on code security.
- Enterprise customization is not available.
- Does not offer code recommendations for Ansible Playbooks or tasks.

watsonx Code Assistant for Red Hat Ansible is specifically trained on public data specific to Ansible Galaxy datasets, providing developers higher accuracy when creating enterprise-ready content.



OpenAI ChatGPT

ChatGPT, which stands for Chat Generative Pre-trained Transformer, is a large language model-based chatbot developed by OpenAI.

- Code recommendations have low accuracy for software programming.
- OpenAI is not transparent about the datasets used for training the underlying AI model.
- Code attribution is not available, limiting users from tracing the code's authorship and origin.

watsonx Code Assistant for Red Hat Ansible is an enterprise-ready solution providing high quality results through the future capability of model tuning and the application of best practices.



Amazon CodeWhisperer

Amazon CodeWhisperer is an AI coding companion that generates whole line and full function code suggestions in the IDE.

- Does not support Infrastructure as a Code platforms (Eg. Ansible, Terraform, Chef, etc.)
- Amazon is not transparent about the datasets used for training the underlying AI model.
- Does not provide any metrics on how accurate the code recommendations are.

watsonx Code Assistant for Red Hat Ansible provides high levels of accuracy and transparency through specificity with the Ansible Automation Platform and provides data-source attribution.



Pulumi AI

Pulumi AI allows users to input natural-language prompts to generate Pulumi infrastructure-as-code programs in any language.

- No IDE support. Pulumi AI is only accessible via a CLI and a web interface.
- Code attribution is not available. Hence users cannot trace to the code's authorship and origin.
- Pulumi AI cannot recommend code for infrastructure configurations. E.g. "Install Apache on all nodes"

watsonx Code Assistant for Red Hat Ansible meets developers where they are in Ansible VS Code Extension. The solution is specifically designed to provide content recommendations for Ansible Playbooks and tasks.

IBM watsonx Code Assistant for Red Hat Ansible Lightspeed Competitive Differentiation



Codeium

Codeium offers a code completion tool in over 20+ languages in IDEs

- No clarity on the data sets LLM/FM it is trained on.
- Recommendations for single-task and multi-task code generation is not validated from prospective customer initiatives such as tech preview programs.
- Code attribution is not available; thus, users cannot trace to the code's authorship and origin.

watsonx Code Assistant for Red Hat Ansible Lightspeed is designed for developer transparency. It is purposefully trained on large amounts of Ansible data, to help produce accurate recommendations. The code matching capability, helps users to trace the code suggested to its origin.



Google Duet AI

Duet AI is an AI-powered collaborator which helps in Assisted development, operations, data analysis, database management, security management and interoperability.

- Duet AI for Enterprise Workspace is generally available. A selective trial is available.
- The LLM model datasets Google Duet is trained for AI code assistance are not listed.
- Duet AI has a focus on assistance within Google Cloud. The user must be subscribed to Google Cloud in order to use the tool. Multi-cloud is not supported for now.

watsonx Code Assistant for Red Hat Ansible is designed to support a multi-cloud environment. Since it is trained on modules and collections from Ansible Galaxy, the content suggestions are on par with industry best practices.