RED HAT ANSIBLE Tower

RED HAT AND AWS DELIVER OPEN SOURCE, AGENTLESS I.T. AUTOMATION

SOLUTION OVERVIEW

INTRODUCTION

Organizations looking to gain a competitive advantage often begin with automating their IT environment and processes using cloud technology. Automation helps IT spend less time manually updating the environment, reducing the risk of vulnerabilities being introduced into the environment from human error.

However, automating legacy technology introduces a new set of challenges, as those systems and processes were originally designed for on-premise environments. Lacking the standardization unique to hybrid cloud, these complex, legacy processes greatly reduce productivity, making it difficult for IT teams to quickly develop and deploy applications.

ACCELERATE I.T. WITH RED HAT ANSIBLE AUTOMATION

Red Hat® Ansible® Automation is a simple, powerful automation language that is designed to eliminate the complexity from IT environments and accelerate IT initiatives. With Ansible Automation, companies accelerate automation for application deployment, configuration management, and workflow orchestration without the need to install an agent to manage software. Ansible Automation allows your IT team to automate repetitive, manual, daily tasks, allowing them to focus on the core business and new application development. Ansible Automation is easy to learn and self-documenting, making it easy for everyone in your IT department to use.

RED HAT AND AMAZON WEB SERVICES

Together, Red Hat and Amazon Web Services (AWS) give you access to an easy-to-use platform with built-in security to meet the changing needs of your business. Whether in the public cloud or in a hybrid cloud deployment, solutions from AWS and Red Hat help you take advantage of infrastructure and application modernization, while continuing to realize additional benefits as you digitize your business.

RED HAT ANSIBLE TOWER ON AWS

Red Hat Ansible Tower can be deployed to extend the benefits of Ansible Automation across your entire AWS environment. Ansible Tower provides your organization with control of scheduled and centralized jobs, visibility into your AWS environment, and the ability to assign role-based access policies. With a visual dashboard to centralize and control applications and processes, you can equip your entire organization with the control, knowledge, and delegation to successfully and efficiently run Ansible Tower on AWS. The Ansible Tower dashboard provides a comprehensive view of systems operations with real-time job status updates, keeping you aware of the inner workings of your organization.

1   Red Hat case study, "Grab scales to meet growing demand with Red Hat Ansible Tower," 2017. redhat.com/en/resources/grab-case-study

KEY BENEFITS

- Focus time on core business development initiatives

- Decrease overhead while increasing productivity

- Improve your organization's overall speed to market

It is easy to get Ansible Tower started on the AWS cloud with:

- Over 100 modules that support AWS capabilities and value-add services.

- Easy, repeatable deployments based on descriptions of your AWS environments in Ansible Playbooks.

- The ability to easily define, deploy and manage a wide variety of AWS services, from the most simple to the very complex.

- Real-time task and status updates for each server, from a single console.

Figure 1. Red Hat Ansible Tower integration with AWS stack
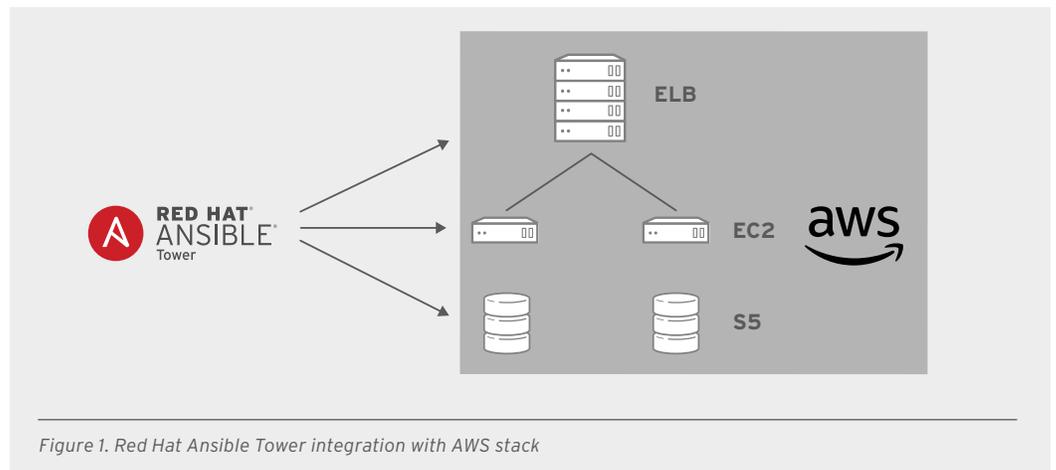
FEATURES AND BENEFITS

FEATURES AND BENEFITS OF RED HAT ANSIBLE AUTOMATION ON AWS

FEATURES	BENEFITS
Application deployment www.ansible.com/use-cases/ application-deployment	Easily manage the entire application life cycle from development to deployment. Ansible Automation provides playbooks that allow you to easily describe the desired state of your environment prior to application deployment. Once playbooks are defined, deploying and managing applications is simple and automated.
Provisioning www.ansible.com/use-cases/ provisioning	Streamline the process of creating instances for applications. With the extensive collection of AWS-supported modules, you can use the same language for configuring servers, networks, and firewalls, allowing you to easily provision instances wherever you need.
Configuration management www.ansible.com/use-cases/ configuration-management	Centralize and simplify configuration file management and deployment. With Ansible Automation in place for configuration management, you gain a solution that requires minimal maintenance and experience, with the consistency, security, and reliability your organization needs.

FEATURES	BENEFITS
Continuous delivery www.ansible.com/use-cases/ continuous-delivery	Easily deploy and manage applications with playbooks. Ansible Automation has a push-based architecture that provides more control over your applications and servers, allowing you to efficiently update and provision servers in batches.
Security and compliance www.ansible.com/use-cases/ security-and-compliance	Integrate the scanning and remediation of security policies into automated processes. Within playbooks, you can define custom security policies, including firewalls, that will automatically be imple-mented when you spin up new applications or servers.
Orchestration www.ansible.com/use-cases/ orchestration	Define how multiple configurations interact and are managed as a whole. Ansible Automation helps ensure that prior to deploying applications, your frontend and backend services, databases, monitoring, networks, and storage solutions are in place with appropriate security.

With Ansible Automation, your organization can:

Focus on core business development initiatives. Help your IT teams spend more time collaborating on new and innovative projects. Eliminating repetitive tasks frees up time for developers, and auto-mation reduces the risk of vulnerabilities caused by human errors.

Decrease overhead and increase productivity. Achieve more efficient and forward-facing IT, and reduce the complexity of manual updates to applications, infrastructure, and processes.

Improve speed to market. Shortening development cycles decreases time to market and improves your ability to rapidly meet customer demand.

LEARN MORE

Learn more about automation with Red Hat and AWS: www.ansible.com/aws

View AWS and Ansible Automation modules: http://docs.ansible.com/ansible/latest/list_of_cloud_modules.html

View AWS and Ansible Automation use cases: www.ansible.com/use-cases

Search Ansible Galaxy to find community roles for AWS: https://galaxy.ansible.com

ABOUT AMAZON WEB SERVICES

Amazon Web Services is a collection of cloud-computing services, also called web services, that make up a cloud-computing platform from Amazon.com. AWS provides a broad set of infrastructure services—such as computing power, storage options, networking, and databases—delivered as a utility. They're delivered on demand, available in seconds, and with pay-as-you-go pricing
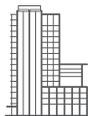
ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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