

BLACKROCK

Portable Ansible IT Automation and Monitoring

Expedite program readiness from anywhere with consistent, error-free, and secure Ansible automation for all types of clouds, hardware systems, and applications.

Blackrock is a self-contained service that is deployable to the cloud or at the edge for reliable IT-automation when connectivity is challenging.



Blackrock automation for faster cloud and edge deployments

- **Provisioning**
With a single click, go from factory default to production ready with Ansible agentless automation
- **Cloud Operations**
Streamline cloud to edge operations by orchestrating complete workflows
- **Monitoring**
Monitor and view the status of all your IT infrastructure with Nagios IT infrastructure monitoring
- **Updates**
Consistent management and security with open-source and custom Ansible playbooks and collections



Figure: Blackrock Ansible automation provisions devices with minimal manual intervention

BLACKROCK

Specifications

BLACKROCK FUNCTIONS AND FEATURES

The following is a high-level overview of the supported features and capabilities of Blackrock.

CATEGORY	FEATURES
Ansible Automation	<ul style="list-style-type: none">• Ansible agentless automation (no additional software required on device).• Pre-installed Ansible playbooks.• Support for most third party networking devices through custom playbooks and integration of Ansible Galaxy Collections.• Playbook execution results and logs are stored for future analysis.• Ansible real-time logging.• Role-based access controls
Cloud Operations	<ul style="list-style-type: none">• Built-in Ansible cloud modules.• Secure credentials with Ansible vault.• Dynamic cloud inventory listing.• Template-built configuration job files.• Role-based access controls.
Inventory Management	<ul style="list-style-type: none">• Nautobot support for dynamic host inventory listing and golden configuration of devices.• Easy addition of managed hosts that is intuitive and user friendly.• Group devices by geographic location, firmware, or hardware characteristics.• View the running configuration and date of last modifications.• Comparison Diff Tool to compare device configuration with expected configuration.• View devices by location using Blackrock integrated maps.
Edge Provisioning	<ul style="list-style-type: none">• Deploy as a standalone edge automation platform.• Take any device from factory to deployment ready with pre-installed playbooks.• Automation of hypervisor installs such as VMware ESXi or Keel on Klas hardware.• Configurable and flexible provisioning bundles including hypervisor image, firmware images, device configuration, and virtual machines.
Scheduling	<p>Automate mundane IT tasks by scheduling Ansible job templates to run hourly or daily.</p> <ul style="list-style-type: none">• Easily enable or disable scheduling tasks at any time.• To the minute scheduling accuracy with timezone support.
Nagios Monitoring With Grafana Visualization	<ul style="list-style-type: none">• Nagios IT infrastructure monitoring.• Monitor and view the status of all networked devices and systems under management.• Drill down into unique performance stats and view with Grafana graphs.• Create custom Grafana graphs as required.
360° Visibility	<ul style="list-style-type: none">• Interactive dashboards and maps.• High level view of device status and location.• Traffic light color scheme, ease of identifying assets with issues.
Web-Based Service Portal	<ul style="list-style-type: none">• Intuitive web-based user interface portal.• SSL-based security, support for bring your own trusted certificate.• Role-based access control for multiple user types: Admin, User (read-write-execute), and Auditor (read-only).• API based on OpenAPI 3 standards for ease of integration with other third party management solutions.