AUTOMATION FOUNDATIONS

EXAM DATA SHEET

FORMAT / STRUCTURE



Specialist
2 Hours

Hands-on Proctored lab-based exam utilizing the same environment as in the Arista Academy labs.

Conducted virtually from your environment, no requirement to travel to an exam center

Open-book, timed sessions

Each exam session is based on one of several possible scenarios. Topics covered and/or testing methods may vary.

SUMMARY OF EXAM

The Arista **Automation Foundations** exam validates your ability to troubleshoot and operate an Infrastructure-as-code pipeline, and to provision a data center pod using CloudVision Studios. Exam scenarios focus on maintaining accuracy across the automation workflow from source templates to live device configurations.

You'll be tested on validating Jinja2 templates and dictionary syntax, rendering EOS configurations through Ansible playbooks, pushing the resulting configlets to CloudVision, and executing parallel change controls to deploy them. The exam also evaluates your ability to provision a datacenter pod end-to-end using CloudVision Studios, including device tagging, tag-based configurations, and interface profiles.

Finally, the exam measures your understanding of the control and data plane technologies underpinning automated data center deployments — including OSPF underlay routing, BGP, EVPN, VXLAN, VARP/Anycast gateways, MLAG, and VRF-based multi-tenancy — along with your ability to verify these deployments using CLI.

HOW TO BE SUCCESSFUL / PREPARATION TIPS

- Comfortable with Ansible directory structures and iterating through dictionaries within Jinja2 templates
- Full automation workflow end-to-end rendering configurations, pushing configlets to CloudVision, executing Change Controls
- Be proficient with CloudVision Studios

PREREQUISITES

Although the Automation Foundations course is not required, completion of the course is recommended, or possessing equivalent knowledge.

Specialist Exam Objective



The Arista Automation Foundations exam will evaluate your ability to build, troubleshoot, and validate automated data center deployments using Ansible, Jinja2, and CloudVision. Candidates are expected to demonstrate hands-on proficiency in rendering and deploying EOS configurations through an Infrastructure-as-Code pipeline, as well as provisioning a complete data center pod through CloudVision Studios. The exam emphasizes a systematic approach across two hands-on tasks, using CLI verification to confirm that underlay, overlay, and multi-tenant services are operating correctly.

SKILLS & COMPETENCIES

To successfully complete the exam tasks, the candidate must possess the following technical skills:

Task 1: Troubleshooting

- Validate Jinja2 template dictionary syntax
- Render EOS configurations via Ansible playbooks
- Push configlets to CloudVision Portal
- Execute parallel Change Controls
- Verify live configuration via CLI

Task 2: Provisioning

- Data Center pod provisioning via CloudVision Studios

Focus Topics:

- **Ansible & Jinja2:** Directory structures and dictionary iteration, configuration rendering, and playbook execution
- **CloudVision Studios & Orchestration:** Device tagging, Static Configuration Studio tag query logic, Interface Configuration Studio profiles, configlet assignment, and Change Control parallel execution
- **Control & Data Plane Technologies:** OSPF underlay, BGP EVPN peering (route-reflectors, address families, route targets), VXLAN VTEP bindings, VARP/Anycast gateways, MLAG domain peering, and VRF L3 multi-tenant isolation
- **Validation:** CLI verification (show ip ospf neighbor, show ip route vrf, ping tests)

For more information, refer to exam policies and procedures
www.training.arista.com – under CERTIFICATION menu

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