Cloud Test Highlights

Labs for Everyone

Cloud Test provides cost effective networking labs in the cloud to use for testing, automation development, or training. Working in the cloud makes collaboration easier and can break down silos.

Cloud Scale

Cloud Test removes constraints of time, space, and capacity. Topologies can have 1000s of nodes leveraging cloud scalability

On Demand

Cloud Test provides labs on demand. You are never waiting for a lab. How much more testing can you do?

Automation

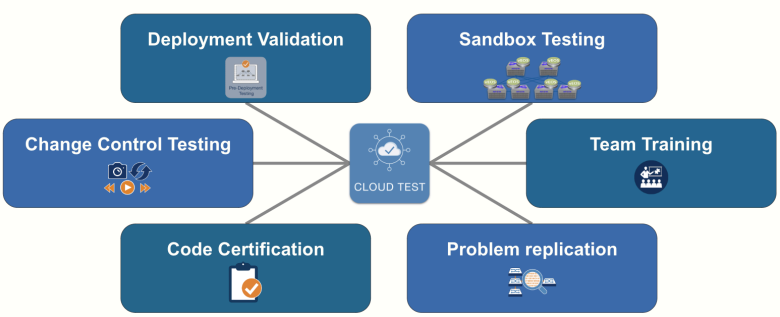
Cloud Test allows you to automate Day 1 and Day 2 on Day 0. Infrastructure as a Code pipelines just work with Cloud Test.

Multi-Framework

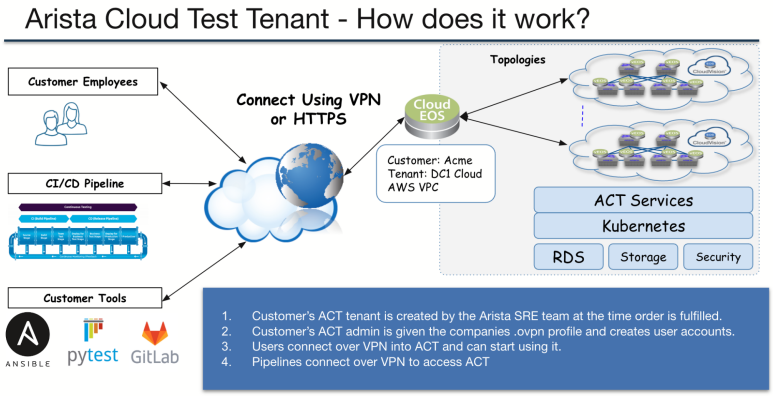
Cloud Test allows you to configure the topology using CloudVision®, open source automation like Ansible-AVD, or even your own custom tools.

Overview

Cloud Test provides a cost effective testing service in the cloud. You can deploy network topologies with 1000s of switches accessing them directly through a VPN or HTTPS connection allowing you to easily deploy topologies for the following use cases:



Cloud Test was designed from the ground up to run in the Cloud. For every topology, a VxLAN Layer 2 overlay is built on the cloud provider's Layer 3 network. This eliminates Layer 2 packet filtering issues. One Virtual Machine is deployed for each device in the topology and the devices are interconnected as specified by the topology file. Cloud Test provides a multi-user within a multi-tenant environment.



Cloud Test provides the following features and benefits:

Topology Files. A Topology file is a YAML formatted file that specifies the network topology to be deployed in a virtual lab including how the topology is wired up. You can download an existing topology file and modify it or create a new one. Topology files are uploaded and validated before being stored in Cloud Test.

Available Nodes:
VEOS
CloudVision Portal
Generic Servers
Tools Server with Gitlab
3rd party vendors via BYOL may be incorporated in the future.

Labs on Demand. Labs are deployed with nodes in their out of the box configuration. We recommend using automation to configure the topology. A node's disk storage, i.e. device configuration, is persistent across start and stops of a lab. Each lab has its own IP address space. The cloud service provider routes the cloud IP addresses for nodes allowing nodes to communicate between labs over layer 3. The cloud IP of a node is unique within the Cloud Test tenant. Zero Touch Provisioning (ZTP) and Zero Touch Replacement (ZTR) work in Cloud Test.

Deployment Times.
CVP+10 Nodes in 6 minutes.
CVP+250 Nodes in 20 minutes.

Management Networks. Cloud Test supports In-Band and Out-of-Band management Network which is specified in the topology file.

TAC Supported. Because pre-validation testing is critical to devOps, Cloud Test is supported by Arista TAC to ensure your environment is always accessible.

Virtual twin of your production network. Create a virtual twin of your production network in Cloud Test to use for pre-production testing of changes in a virtual environment and for training your operations team.

User Administration. Customer manages and controls all user accounts for a Cloud Test tenant. Cloud Test is a multi-user environment. Users can see each other's topology and lab deployments. You can allow partners to access labs to collaborate with your teams.

User Security. Username and password. RBAC - Custom Role definition for authorization. Single sign on integration with Google.

Data Security. Data at rest is automatically encrypted as it is being written to disk using AES256, which relies on the Advanced Encryption Standard (AES) algorithm with a key size of 256 bits. Each encryption key is itself encrypted with a set of master keys within the cloud service provider. In addition, customer data is encrypted with a customer key first and then encrypted when it is stored i.e. double encryption. Data on the lab nodes is only encrypted at rest.

Automation. Cloud Test supports the development and execution of automation so that your automation teams can make progress instead of waiting for equipment to arrive or physical labs to be available.

Cloud Test RESTful APIs. An API and client that can be used to programmatically access Cloud Test. This is useful having your Infrastructure as a Code pipelines do their virtual testing in Cloud Test. You can start a lab, run the tests, and stop the lab after the tests have completed.

Cloud Test Ordering Information

Cloud Test is available as a software subscription via this promotional pricing SKU:

Product Number	Scope
SVE-EOS-ACT-T3-P	1-Year PS Cloud Test Tier 3 - 50,000 VM-hours

When a node in the topology is running in a lab, the time running is subtracted from the VM hours the customer has purchased. The table below shows the VM Hours consumed per hour of run time for a given node type as specified in the topology file.

Node Type	VM Hours consumed per hour of run time
vEOS	1
CVP	12
Generic (Server)	1
Tools Server with Gitlab	2

Service and Support

Software support for Cloud Test is included in the Cloud Test software subscription license.

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