GigaVUE Cloud Suite for AWS SecretRegions Configuration Guide

GigaVUE Cloud Suite

Product Version: 5.10

Document Version: 2.0

(See Change Notes for document updates.)

Change Notes

When a document is updated, the document version number on the cover page will indicate a new version and will provide a link to this Change Notes table, which will describe the updates.

Product Version	Document Version	Date Updated	Change Notes
5.10.01	2.0	08/28/2020	Fixed formatting and cross-references issues, and streamlined instructions throughout the guide.
5.10.00	1.0	08/14/2020	Original release of this document with 5.10.00 GA.

Contents

GigaVUE Cloud Suite for AWS

GigaVUE® Fabric Manager (GigaVUE-FM) is a web-based fabric management interface that provides a single pane of glass visibility and management of both the physical and virtual traffic that form the GigaVUE Cloud Suite Cloud.

GigaVUE-FM integrates with the Amazon Elastic Cloud Compute (EC2) APIs and deploys the components of the GigaVUE Cloud Suite for AWS in the Virtual Private Cloud (VPC).

The GigaVUE Cloud Suite for AWS consists of the following components:

- GigaVUE-FM
- GigaVUE V Series node
- GigaVUE V Series controller
- GigaVUE Cloud Suite G-vTAP controller

GigaVUE-FM is launched by subscribing to the GigaVUE Cloud Suite for AWS in the AWS Marketplace. Once the GigaVUE Cloud Suite for AWS instance is launched, the rest of the Amazon Machine Images (AMIs) residing in the AWS Marketplace are automatically launched from GigaVUE-FM based on the specifications in the GigaVUE-FM interface.

GigaVUE Cloud Suite is available in both the public AWS cloud and in AWS GovCloud, and supports the Bring Your Own License (BYOL) model and the hourly Pay-As-You-Go (PAYG) model that you can avail from the AWS Marketplace.

This guide describes how to deploy the GigaVUE Cloud Suite on the Amazon Web Services (AWS) cloud. For information about installing GigaVUE-FM in your enterprise data center, refer to the "Installation and Upgrade" section in the *GigaVUE-FM User's Guide* available in the Gigamon Customer Portal.

GigaVUE Cloud Suite for AWS Secret Regions

Commercial Cloud Services (C2S) and Secret Commercial Cloud Services (SC2S) are the secure AWS Secret Regions for Intelligence Community (IC) of U.S. Government. In GigaVUE-FM, a user with appropriate agency name, mission, and role can toggle to an AWS Secret Region (C2S or SC2S) for IC's Cloud environment. Refer to *GigaVUE Cloud Suite for AWS Configuration Guide* for detailed information on regular AWS configuration.

About AWS Secret Regions

There are many security enhancements and features contained in AWS secret regions than a regular AWS cloud service. Following are the key features of AWS secret regions.

- **No outbound internet access**—Users can not access GigaVUE-FM and C2S/SC2S services without a proxy connection.
- **Reduced set of AWS services and/or components**—Secret Regions have limited set of AWS services and resources. While many fundamental AWS services such as EC2 and S3 are available, and many of the managed services like AWS Elastic BeanStalk, AWS EFS, AWS Lambda, AWS CodeDeploy, AWS CodeCommit, etc. are absent.
- **Secured access**—Access to the IC's cloud environment is based on two-way SSL communication through PKI certificates. For the IAM users, access to C2S/SC2S is only through tokens. C2S/SC2S has a built-in CAP module that is placed between the vendor software and the IAM services.
  - For **C2S**, GigaVUE-FM calls CAP for AWS token bypassing the appropriate Agency, Mission, and Role.
  - For **SC2S**, GigaVUE-FM first calls CAP to retrieve the agency, account name, and role name then pass in the appropriate agency, account name, and role.

> **NOTE:** The session token is always associated with expiration and GigaVUE-FM needs to renew the session token before expiration.

- **Network differences**—The AWS secret regions utilize service endpoints with different DNS names and requires users to provide the service endpoints.

Set up AWS Secret Region

To set up AWS Secret Region:

1. In GigaVUE-FM, select **Cloud > AWS > Settings**. The Settings page appears.
2. On the **Advanced** tab of the Settings page, click **Edit**.
3. On **Aws secret region** field, select any of the following secret regions.
   - Secret—C2S (Commercial Cloud Services)
   - Top Secret—SC2S (Secret Commercial Cloud Services)
4. Click **Save**. Then the **Secret Regions** tab appears in the Settings page.
5. Click **Secret Region** tab and then click **Edit**.

6. On the Secret Region page, enter or select the values and files as follows.

- Click **Certification**, and select .pem files for Certification
  Or,
  Click **Trust Store**, select a .pem file, and enter a password for Trust Store.
- Select a .p12 file, and enter a password or **Server Key**.
- Enter **CAP Base URL**, and **AWS EC2 Endpoint**.
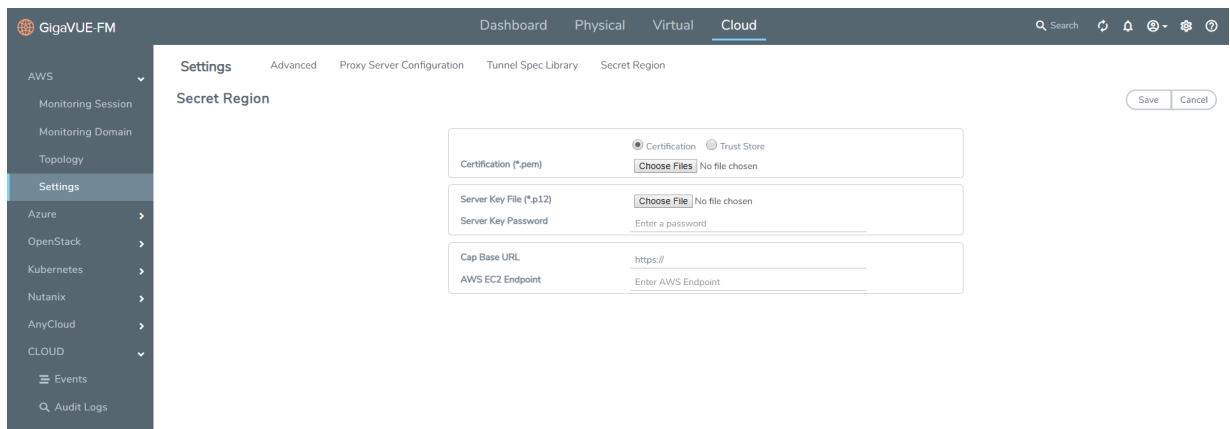
7. Click **Save**.

Additional Sources of Information

This appendix provides additional sources of information. Refer to the following sections for details:

- Documentation
- Documentation Feedback
- Contact Technical Support
- Contact Sales
- The Gigamon Community

Documentation

> **ATTENTION**: 5.10.00 was delivered as embedded software on new hardware only. The updated PDFs for the 5.10.01 software release are coming soon! Check back on 8/29/2020 for the latest.

This table lists all the guides provided for GigaVUE Cloud Suite software and hardware. The first row provides an All-Documents Zip file that contains all the guides in the set for the release.

Table 1: Documentation Set for Gigamon Products

GigaVUE Cloud Suite 5.10 Hardware and Software Guides
Hardware how to unpack, assemble, rack-mount, connect, and initially configure ports the respective GigaVUE Cloud Suite devices; reference information and specifications for the respective GigaVUE Cloud Suite devices
*G-TAP A Series 2 Installation Guide
GigaVUE-HC1 Hardware Installation Guide
GigaVUE-HC2 Hardware Installation Guide
GigaVUE-HC3 Hardware Installation Guide
GigaVUE TA Series Hardware Installation Guide *(now including TA25)*
*GigaVUE-OS Installation Guide for DELL S4112F-ON how to install GigaVUE-OS and configure ports on COTS DELL S4112F-ON
Software Installation and Upgrade Guides
GigaVUE-FM Installation, Migration, and Upgrade Guide how to install GigaVUE-FM on VMware ESXi, MS Hyper-V, and KVM how to migrate GigaVUE-FM on VMware ESXi, Hardware Appliance, and AWS
GigaVUE-OS Upgrade Guide

GigaVUE Cloud Suite 5.10 Hardware and Software Guides
how to upgrade the embedded GigaVUE-OS on GigaVUE H Series and GigaVUE TA Series nodes
Administration
GigaVUE-OS and GigaVUE-FM Administration Guide   how to administer the GigaVUE-OS and GigaVUE-FM software (note, new file name for PDF)
Fabric Management

GigaVUE-FM User's Guide
    how to install, deploy, and operate GigaVUE-FM
    how to configure GigaSMART operations
    includes instructions for GigaVUE-FM and GigaVUE-OS features

Cloud Configuration and Monitoring how to configure the GigaVUE Cloud Suite components and set up traffic monitoring sessions for the respective cloud platform
GigaVUE Cloud Suite for AnyCloud Configuration Guide   how to deploy the GigaVUE Cloud Suite solution in any cloud platform
GigaVUE Cloud Suite for AWS Configuration Guide
GigaVUE Cloud Suite for AWS Quick Start Guide   quick view of AWS deployment used in conjunction with the GigaVUE Cloud Suite for AWS Configuration Guide
GigaVUE Cloud Suite for AWS SecretRegions Configuration Guide
GigaVUE Cloud Suite for Azure Configuration Guide
GigaVUE Cloud Suite for Kubernetes Configuration Guide
GigaVUE Cloud Suite for Nutanix Configuration Guide
GigaVUE Cloud Suite for OpenStack Configuration Guide
GigaVUE Cloud Suite for VMware Configuration Guide
Gigamon Containerized Broker
Reference
GigaVUE-OS-CLI Reference Guide   library of GigaVUE-OS CLI (Command Line Interface) commands used to configure and operate GigaVUE H Series and TA Series devices
GigaVUE-OS Cabling Quick Reference Guide   guidelines for the different types of cables used to connect Gigamon devices
GigaVUE-OS Compatibility and Interoperability Matrix   compatibility information and interoperability requirements for Gigamon devices

GigaVUE Cloud Suite 5.10 Hardware and Software Guides
GigaVUE-FM REST API Reference in GigaVUE-FM User's Guide   samples uses of the GigaVUE-FM Application Program Interfaces (APIs)
Release Notes

GigaVUE-OS, GigaVUE-FM, GigaVUE-VM, G-TAP A Series, and GigaVUE Cloud Suite Release Notes
    new features, resolved issues, and known issues in this release ;
    important notes regarding installing and upgrading to this release
 	
NOTE: Release Notes are not included in the online documentation.
 	
NOTE: Registered Customers can log in to My Gigamon to download the Software and Release Notes from the Software & Docs page on to My Gigamon. Refer to .

In-Product Help
GigaVUE-FM Online Help   how to install, deploy, and operate GigaVUE-FM.
GigaVUE-OS H-VUE Online Help   provides links the online documentation.

How to Download from My Gigamon

Registered Customers can download software and corresponding Release Notes documents from the **Software & Docs** page on to My Gigamon. Use the My Gigamon Software & Docs page to download:

- Gigamon Software installation and upgrade images,
- Release Notes for Gigamon Software, or
- Older versions of PDFs (pre-v5.7).

To download release-specific software, release notes, or older PDFs:

1. Log in to My Gigamon
2. Click on the **Software & Documentation** link.
3. Use the **Product** and **Release** filters to find documentation for the current release. For example, select Product: "GigaVUE-FM" and Release: "5.6," enter "pdf" in the search box, and then click **GO** to view all PDF documentation for GigaVUE-FM 5.6.xx.

NOTE: My Gigamon is available to registered customers only. Newer documentation PDFs, with the exception of release notes, are all available through the publicly available online documentation.

Documentation Feedback

To send feedback and report issues in our documentation, complete the short survey at the following link:

https://www.surveymonkey.com/r/gigamondocumentationfeedback

Contact Technical Support

See https://www.gigamon.com/support-and-services/contact-support for Technical Support hours and contact information. You can also email Technical Support at support@gigamon.com.

Contact Sales

Use the following information to Gigamon channel partner or Gigamon sales representatives.

Telephone: +1.408.831.4025

Sales: inside.sales@gigamon.com

Partners: www.gigamon.com/partners.html

Premium Support

Email Gigamon at inside.sales@gigamon.com for information on purchasing 24x7 Premium Support. Premium Support entitles you to round-the-clock phone support with a dedicated Support Engineer every day of the week.

The Gigamon Community

The Gigamon Community is a technical site where Gigamon users, partners, security and network professionals and Gigamon employees come together to share knowledge and expertise, ask questions, build their network and learn about best practices for Gigamon products.

Visit the Gigamon Community site to:

- Find knowledge base articles and documentation
- Ask and answer questions and learn best practices from other members.
- Join special-interest groups to have focused collaboration around a technology, use-case, vertical market or beta release
- Take online learning lessons and tutorials to broaden your knowledge of Gigamon products.

- Submit and vote on feature enhancements and share product feedback. (Customers only)

- Open support tickets (Customers only)

- Download the latest product updates and documentation (Customers only)

The Gigamon Community is a great way to get answers fast, learn from experts and collaborate directly with other members around your areas of interest.

Register today at community.gigamon.com

Questions? Contact our Community team at community.gigamon.com