ScienceLogic

Configuring a VPN for SaaS on AWS

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Introduction

Overview

This manual describes how to build a Virtual Private Network (VPN) between a SL1 Software-as-a-Service (SaaS) environment and the customer network, specifically on Amazon Web Services (AWS).

This chapter covers the following topics:

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SaaS Connectivity

SaaS on SL1 is currently a single-tenant application hosted in a dedicated Virtual Private Cloud (VPC). This method provides a direct path for the data engine to connect to and pull data from every Data Collector in your SL1 system. You must have private connectivity from the SL1 VPC to the customer network deployed within a customer-managed AWS Transit Gateway. This Transit Gateway can be connected to the customer's on-premises environment using the following methods:

- An existing or new AWS Site-to-Site IPSec VPN
- An existing AWS Direct Connect connection



Terminology

This section defines some of the common terminology you will encounter when configuring a site-to-site VPN:

- VPN connection. A secure connection between on-premises equipment and AWS VPCs.
- VPN tunnel. An encrypted link where data can pass from the customer network to or from AWS. Each VPN connection includes two VPN tunnels which you can simultaneously use for high availability.

- **Customer gateway device (CGW)**. A physical device or software application on the customer side of the site-to-site VPN connection.
- **Transit gateway (TGW)**. A transit hub that can be used to interconnect multiple VPCs and on-premises networks. It also serves as a VPN endpoint for the Amazon side of the site-to-site VPN connection.

Chapter

2

Configuring a VPN for SaaS on SL1

Overview

This chapter describes how to configure your virtual private network (VPN) in Amazon Web Services (AWS).

This chapter covers the following topics:

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Prerequisites

Before you can build a VPN between an SL1 Software-as-a-Service (SaaS) environment and AWS, you must have the following prerequisites:

- An existing AWS account with an AWS region
- A connection to data centers in which you are planning to deploy SL1 Data Collectors
- A list of prefixes and subnets in which you are planning to deploy SL1 Data Collectors

Creating Private Connectivity for SaaS in AWS (Required)

To set up a VPN for SaaS on an existing AWS Transit Gateway or AWS Direct Connect account:

NOTE: You might need to enable resource sharing within your AWS Organizations from your AWS management account.

- 1. Log in to your AWS account as a Cloud Administrator.
- 2. Select the AWS account on which your AWS Transit Gateway is running.
- 3. Select the AWS Management Console associated with the role allowing administrative access.
- 4. Select the appropriate AWS region.
- 5. Navigate to Resource Access Manager.
- 6. Click the [Create a resource share] button.
- 7. In the **Specify resource share details** page, type a name for your resource share in the **Name** field.
- 8. In the **Select resource type** drop-down, select *Transit* Gateways. A list of available Transit Gateways will appear. Select the checkbox for the Transit Gateway you want to share with ScienceLogic.

Step 1 Specify resource share details	Specify resource share details			
Step 2	Enter a name for the resource share and select the resources in	that you want to share.		
Associate a permission with each resource type	Resource share name			
Step 3	Name Provide a descriptive name for the resource share.			
Choose principals that are allowed to access	ScienceLogic-share			
Step 4 Review and create	Resources - optional Choose the resources to add to the resource share.			
	Select resource type			
	Transit Gateways			•
	Q Filter by attributes or search by keyword			< 1 > @
	ID ID	Name	Description	State
	✓ tgw-0878487939ade5254	tgw-us-east-1a	TGW for us-east-1 regions	available
	Selected resources			
	tgw-0878487939ade5254 ×			

- 9. Click [Next] to go to the Associate permissions page. Permissions are not modified for Transit Gateways, so click [Next] again.
- 10. In the Choose principals that are allowed to access page, select Allow sharing with anyone.
- 11. In the **Principals** drop-down, select AWS account and type the ScienceLogic-provided 12-digit number in the AWS account ID field.
- 12. Click [Add]. Repeat these steps if ScienceLogic has provided multiple account numbers.

Resource Access Manager > Shared Step 1 Specify resource share details	ty me. Resource shares > Create resource share Choose principals that are allowed to access
	Specify the principals that are allowed access to the shared resources. A principal can be any of the following: An entire organization or organizational unit (OU) in AWS Organizations, an AWS account, IAM role, or IAM user.
Step 2 Associate a permission with each resource type	Principals - optional
Step 3 Choose principals that are allowed to access	C Allow sharing with anyone You can share resources with any AWS accounts, roles, and users. If you are in an organization, you and so share with the entire organizational units in that argumatization.
Step 4 Review and create	Principals Year can add multiple principals of different types.
	AWS account
	123456789012
	An ANG account ID is a 12-digit number.
	Add
	Selected principals (0) The following principals will be allowed access to the shared resources.
	Principal ID Type

13. Click **[Next]** to go to the **Review and create** page. Review the information you entered and then click the **[Create resource share]** button.

When you have completed sharing your AWS resource, ScienceLogic will attach a single virtual private cloud (VPC) or multiple VPCs to your Transit Gateway.

If your Transit Gateway is not configured to automatically accept sharing requests, you must approve the request in your account. To do so:

- 1. Log in to your AWS account as a Cloud Administrator.
- 2. Select the AWS account on which your AWS Transit Gateway is running.
- 3. Select the AWS Management Console associated with the Role allowing administrative access.
- 4. Select the appropriate AWS region.
- 5. Navigate to VPC.
- 6. In the left navigation panel, click Transit Gateway Attachments.
- 7. In the **Transit gateway attachments** page, you will see a list of your Transit Gateway attachments that are "pending acceptance".
- 8. Select the checkbox for your Transit Gateway attachment, and then click the **[Actions]** drop-down and select **Accept**.

Next, you must create the Transit Gateway route table for your VPC attachment. To do so:

- 1. From your AWS Management Console, click VPC.
- 2. In the left navigation panel, click Transit Gateway Route Tables.

- 3. In the Transit gateway route tables page, click the [Create transit gateway route table] button.
- 4. Type a name for your Transit Gateway table in the Name tag field.
- 5. In the Transit gateway ID drop-down, select your Transit Gateway.
- 6. Click the [Create transit gateway route table] button.

After creating your Transit Gateway route table, you must associate the route table with your VPC attachment by performing the following steps:

- 1. From your AWS Management Console, click VPC.
- 2. In the left navigation panel, click Transit Gateway Route Tables.
- 3. In the **Transit gateway route tables** page, when the **State** of the route table transitions to *Available*, select the **Associations** tab.

NOTE: You might have to refresh the Transit gateway route tables page to see the State change.

- 4. Click Create association.
- 5. Select the Transit Gateway attachment you want to associate with your VPC, and then click [Create association].

Finally, to allow traffic from your site-to-site VPN connection to be routed to the ScienceLogic workload VPC, you must add a propagation for the VPC attachment to the network services route table. To do so:

- 1. From your AWS Management Console, click VPC.
- 2. In the left navigation panel, click Transit Gateway Route Tables.
- 3. In the **Transit gateway route tables** page, select the route table you use for routing traffic outside of AWS.
- 4. Click the Actions drop-down and select Create propagation.
- 5. Select the Transit Gateway attachment to propagate.

Configuring a Site-to-Site VPN (Optional)

An alternative option for configuring your VPN is to have ScienceLogic work with you to set up a site-to-site VPN, available as a premium service. If you would prefer to set up a VPN on your own, see the Setting Up a Virtual Private Network (VPN) (Optional) section.

This high-availability VPN option provides the following:

- Two customer gateway devices, or CGWs, in different geolocations, with the VPN tunnel terminating on the same Transit Gateway
- A private autonomous system number (ASN) in the 64512 to 65534 range. The default ASN is 65000.



For select customers, AWS will produce example configuration files to be applied your device(s).

Configuration provided in this method may not satisfy all of your requirements, but may be adjusted as needed.

Setting Up a Virtual Private Network (VPN) (Optional)

If you do not have connectivity from AWS to your on-premises environment, you will need to configure your VPN. If you have opted to have ScienceLogic set up your VPN, see the *Configuring a Site-to-Site VPN (Optional)* section.

Before you set up a VPN, you will need to determine the following:

- What is your desired topology—a single VPN connection or multiple VPN connections?
- What type of device are you planning to use for the VPN termination?
- Are there specific internal requirements or standards for setting up your VPN?

At a minimum, you will need to know the public IP address of your Customer Gateway to begin setup.

You will also need to determine the following VPN properties:

- IKE version: IKEv1 vs IKEv2
- Inside tunnel IP addresses
- Minimum encryption algorithms for phase 1 and phase 2
- Minimum integrity algorithms
- Allowed Diffie-Hellman (DH) group numbers
- See the AWS <u>Tunnel options for your Site-to-Site VPN connection</u> documentation for information on optional parameters

You will also need to determine your routing options:

- Static (single VPN only)
- Dynamic (BGP only)

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