# ScienceLogic

## Configuring a VPN for SaaS on AWS

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# Chapter

# 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

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.

Resource Access Manager > Shared by me: Resource shares > Create resource share					
Step 1 Specify resource share details	Specify resource share details Enter a name for the resource share and select the resources tha	t you want to share.			
Step 2 Associate a permission with each resource type	Resource share name				
Step 3 Choose principals that are allowed to access	Name Provide a descriptive name for the resource share. ScienceLogic-share				
Step 4 Review and create	<b>Resources - optional</b> Choose the resource share.				
	Select resource type				
	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 👌 Share	d by me: Resource shares > Create resource share
Step 1 Specify resource share details	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	• Allow sharing with anyone. This can share movers with any MIS accounts, roles, and users. If you are is an important on or organization units in the organization, or a shar with the entire organization units in the organization. This can share the organization or organizational units, or ANS accounts, roles, and users in that organization.
Step 4 Review and create	Principals You can add multiple principals of different types.
	AWS account
	123456789012 An ANS account ID is a 12-digit number.
	Add
	▼ Selected principals (0) The following principals will be allowed access to the shared resources. Deselect
	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 approve the request:

- 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:

- 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:

- 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. 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:

- 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.

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