Configuring a VPN for SaaS on AWS

ScienceLogic Version 12.2.0

Table of Contents

Chapter 1

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).

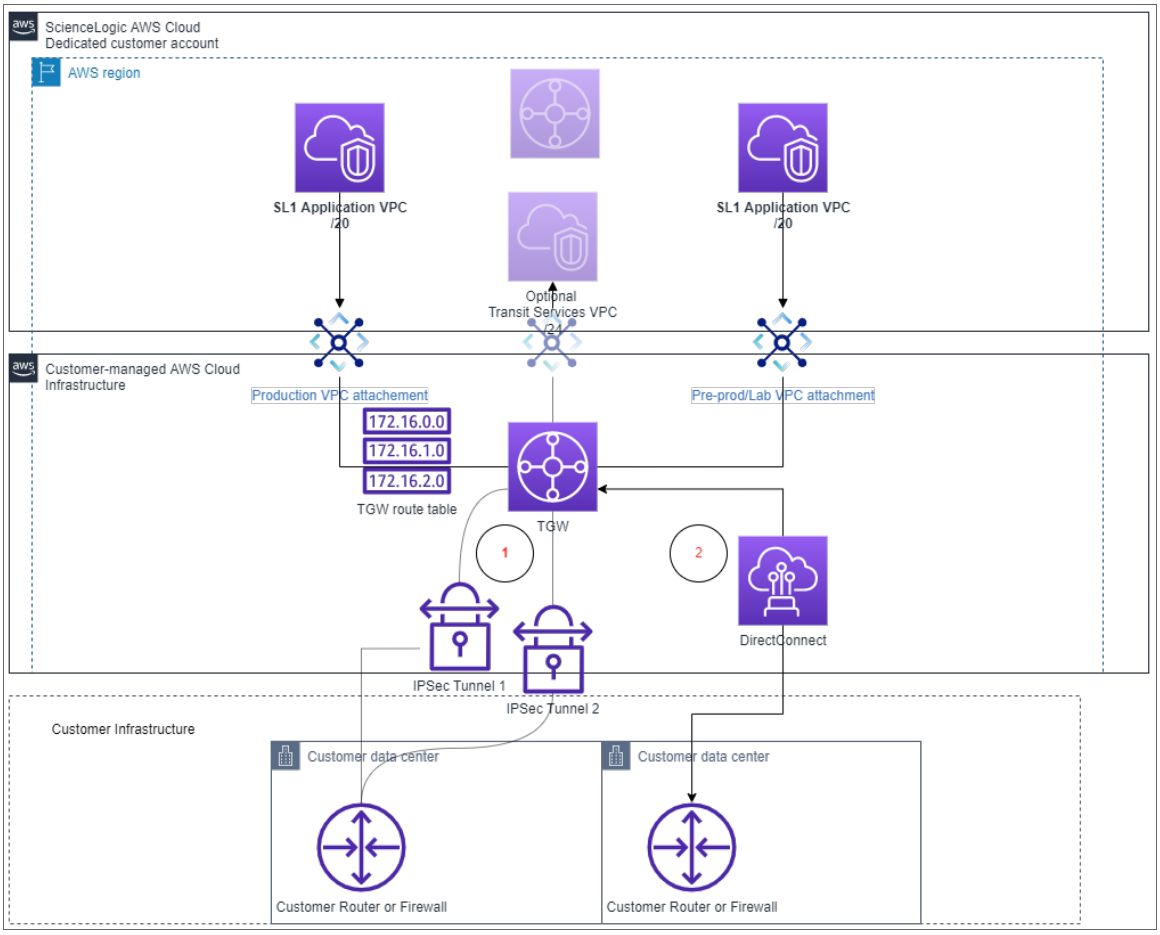
This chapter covers the following topics:

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:

Prerequisites

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

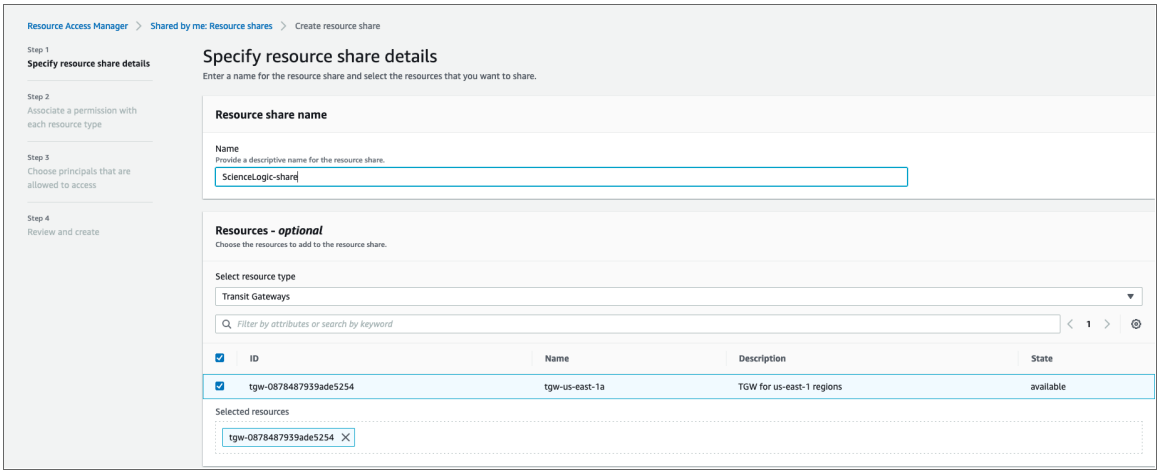
- An existing AWS account with an AWS region
- A connection to data centers in which you are planning to deploy SL1 Data Collectors
- A list of prefixes and subnets in which you are planning to deploy SL1 Data Collectors

Creating Private Connectivity for SaaS in AWS

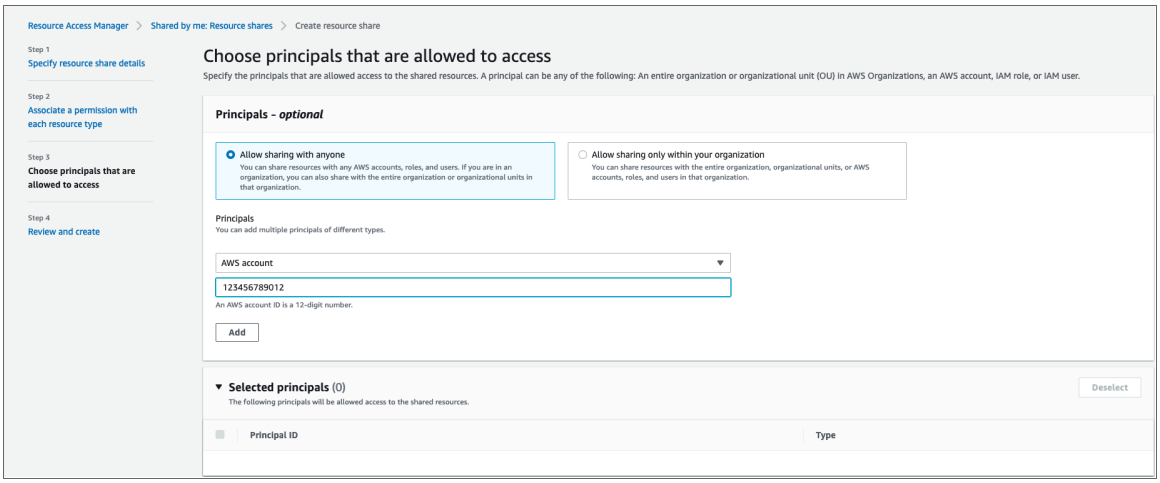
To set up a VPN for SaaS on an existing AWS Transit Gateway or AWS Direct Connect account:

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.



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.



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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