Customer-dedicated network configuration using dedicated VPC

Overview

Customers can assign internal custom subnets in the existing system to SDS Cloud resources through dedicated **VPC**.

Backend systems such as application servers can be deployed in a private network without Internet access, and security can be strengthened by applying SDS Cloud's security products such as **Security Group**.

Dedicated **VPC** supports a seamless migration of customers' existing systems to seamlessly migrate to SDS Cloud, even when IP address is hard-coded on the device or has an architectural dependency on the IP address.
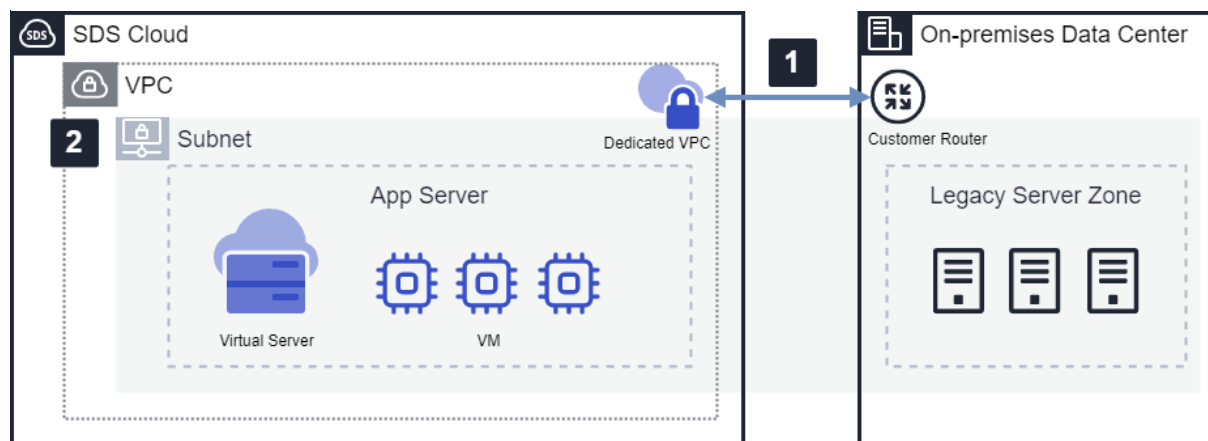
Architecture Diagram

Figure 1. Customer-dedicated network configuration using dedicated VPC

1. Prepare leased line connection between the on-premises data center and SDS Cloud in advance.

2. Dedicated **VPC** configuration expands the custom (private) subnet used by the

customer's existing system by allocating it to SDS Cloud resources.

Use Cases

A. Migration to SDS Cloud without changing system details

When moving a system from an on-premises data center to SDS Cloud, there are many factors to consider, including collaboration with other systems. Dedicated **VPC** can ensure service continuity during the migration process while minimizing changes in system details for connection.

Pre-requisites

A leased line connection must be pre-configured between SDS Clouds and on-premises. If you do not have a leased line, a prior service request is required to configure Dedicated VPC, whose processing takes about a week.

Limitations

Installation-type products (**Database** and **Kubernetes Apps**) and **Auto-Scaling** cannot be provided within dedicated **VPC**.

Considerations

A. Connection methods

Dedicated **VPC** does not allow access Internet access. If your **VPC** has an arbitrary IP band (custom subnet) and needs to support Internet access, you must apply a mix of standard and custom subnets in a standard **VPC**.

B. Security

You can selectively use the **Security Group for VM** service for controlling the traffic that is sent and received from the **Virtual Server** interface and the **Security Group for VPC** that is controlled at the **VPC** level. **Security Group for VM** is applied when controlling traffic between **Virtual Servers** within the same **VPC**.

C. Lead time

It may take several weeks to build the connection as a dedicated line because on-premises connection needs to be leased and network resources need to be requested.

D. Cost

The cost of a leased line will be determined based on the monthly data usage in both directions between on-premises and SDS Cloud and duration of connection maintenance. Cost analysis is required for a more optimal choice.

Related Products

- VPC
- Load Balancer
- Security Group

Related Documents

- [Virtual server based DMZ web service using standard VPC](#)