Preparing for Installing Cisco Cloud APIC

Resources Used for Cisco Cloud APIC Deployment in Google Cloud

This section lists the requirements for Cisco Cloud APIC deployment in Google Cloud.

Cisco Cloud APIC Resources

When you deploy Cisco Cloud APIC in Google Cloud, the Cisco Cloud APIC will use the following instance profile and will create the necessary resources:

- One compute instance:

    - Instance type: n2-standard-16

    - CPU: 16 vCPU

    - Memory: 64 GB

    - Disks: OS disk [300GB] , Data Disk – 100GB [empty]

- Data Disk:

    - Empty data disk

    - Size: 100GB

    - Type: Standard SSD

- VPC network: With autoCreateSubnetworks set to False

- Subnet: Cisco Cloud APIC management NIC is attached to this subnet.

- Google Cloud projects: A minimum of two Google Cloud projects:

    - One for ACI infra

• One per tenant

Cisco Cloud APIC Communication Ports

When configuring your Cisco Cloud APIC environment, keep in mind that the following ports are required for network communications:

- For the Cisco Cloud APIC, use the same Cisco Cloud APIC management IP address that you will use to log into the Cisco Cloud APIC at the beginning of Configuring Cisco Cloud APIC Using the Setup Wizard.

- For the Google Cloud firewall rules:

    - WEB-Server: Ingress allow 80, 443

    - SSH-Allow: Ingress allow 22

- For license registration (towards `tools.cisco.com`): Port 443 (outbound) is required

- For DNS: UDP Port 53 outbound

- For NTP: UDP Port 123 outbound

- If remote authentication is used (LDAP, Radius, TACACS+, SAML), open the proper ports

- If a certificate authority is used, open the proper ports

Cisco Cloud APIC Installation Workflow

This section provides a high-level description of the tasks that are required to install and deploy Cisco Cloud APIC. You perform installation tasks through Google Cloud management portal and the Cloud APIC First Time Setup Wizard.

1. Fulfill all prerequisites to prepare for support of Google Cloud with Cisco Cloud APIC.

   See Preparing for Installing Cisco Cloud APIC, on page 1.

2. Deploy Cisco Cloud APIC in Google Cloud.

   See Deploying the Cloud APIC in Google Cloud.

3. Configure Cisco Cloud APIC using the First Time Setup Wizard.

   See Configuring Cisco Cloud APIC Using the Setup Wizard.

4. Make the necessary configurations through Cisco Cloud APIC.

   See Navigating the Cisco Cloud APIC GUI and Configuring Cisco Cloud APIC Components.

5. Delete the deployment, if necessary.

   See Deleting a Cisco Cloud APIC Deployment in Google Cloud.