Falcon Agent for Cloud Workload Protection: Google Cloud Platform

CrowdStrike for OSConfig
Version: 1.0.0

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About this Guide:

This document describes how to deploy the CrowdStrike Falcon sensor across workloads in GCP.

The integration installs and configures the sensor across instances of your choosing. Covering the following use cases.

- **Shorten Time to Deployment:** With a centralized repository to manage all sensor packages in one place, customers can quickly choose which software versions to install for providing endpoint protection for their workloads hosted in Google Cloud environments.
- **Improve Efficiency with Ease of Use:** Customers can manage all CrowdStrike Falcon sensor deployments from a single user interface as new workloads spin up. They can automate operational tasks to make workload deployments efficient and secure from bring-up time.
- **Gain Control and Visibility**: Organizations can gain control of the environment by allowing authorized users to retrieve and install Falcon sensors on workloads. Users can get full visibility into their infrastructure's current operational state of workloads and sensors deployed.

Support

Contact support@crowdstrike.com

Prerequisites:

Before you Begin:

Verify that your environment meets the following requirements:

- **Have installed the Google OSConfig Agent onto an eligible VM.**
- **Have a valid set of client_id and secret for and oauth2 credential from:**
  https://falcon.crowdstrike.com/support/api-clients-and-keys

Prior to installing the agent, you will need to identify which VMs you would like to deploy to. This integration uses Google's OSConfig agent which is supported on the following OSs:

1. Ubuntu
2. Windows
3. Red Hat Enterprise Linux

For an up to date list of supported operating systems visit:
https://cloud.google.com/compute/docs/manage-os#agent-install

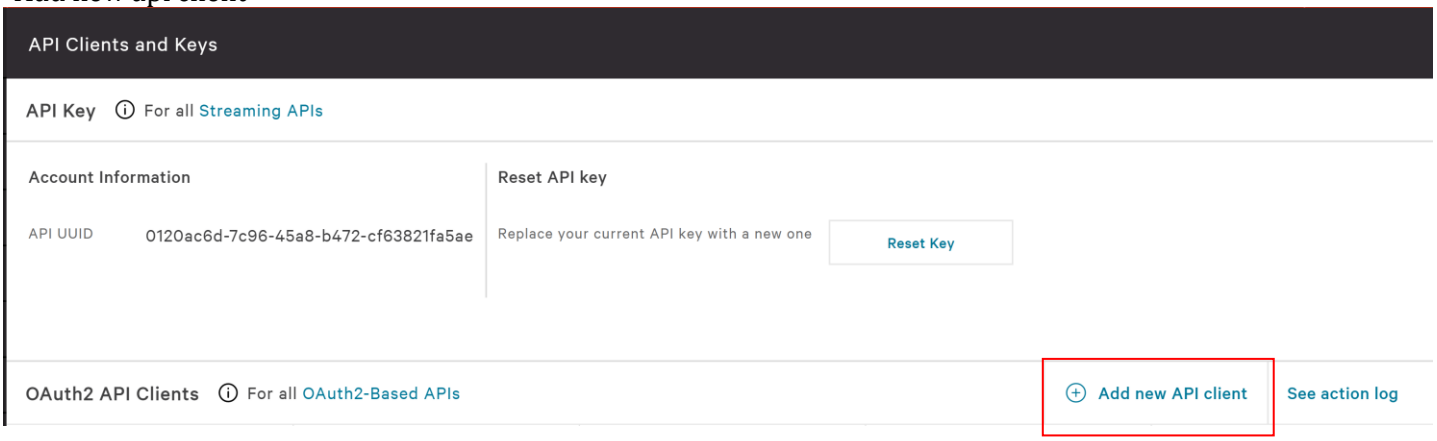
The CrowdStrike sensor is designed to support a variety of Operating Systems and Kernel versions. You will need to ensure that the target Virtual Machine has a supported OS. The list can be found in the Falcon console under Support → Docs → Sensor Deployment and Maintenance. Make sure that you have deploy to Linux machines with supported Kernels.

While compiling your list of target VMs, best practice is to tag these machine with an OS Label. Instructions can be found: https://cloud.google.com/compute/docs/labeling-resources?hl=en_US#label_format. For example, you can setup your target VMs with a label of "crowdstrike" and a key of "enable". This will help during the deployment so that we only deploy to machines we'd like to target.

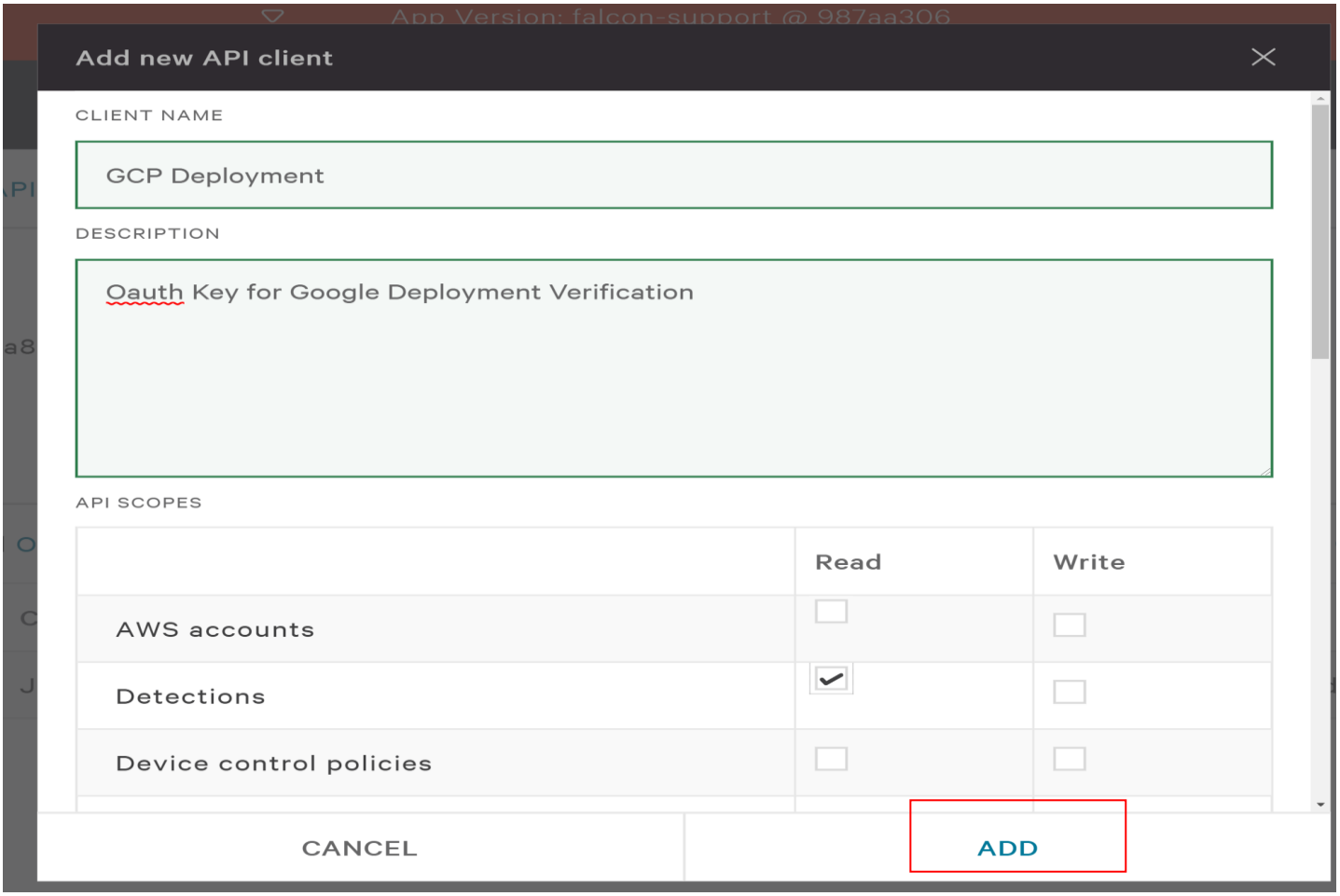
After tagging your chosen machines, make sure to deploy the OSConfig Agent to the machines if not already.
https://cloud.google.com/compute/docs/manage-os#agent-install

To verify that you are a current CrowdStrike customer, Google will ask for a client_id and secret key found in the Falcon Console at https://falcon.crowdstrike.com/support/api-clients-and-keys. If you already have a known client_id and secret, there is no need to create a new pair as you can use your existing keys.

If you have not created a key or do not know the secret for existing keys, we will create a new key by selecting "Add new api client"



Google will not be using any API access to your account and will simply use the API keys to verify that you are a current customer. As such, you can delete the key later after deployment if you wish. Setup a new key as in the image below. [Continued in next page]



You are now ready to proceed to install.

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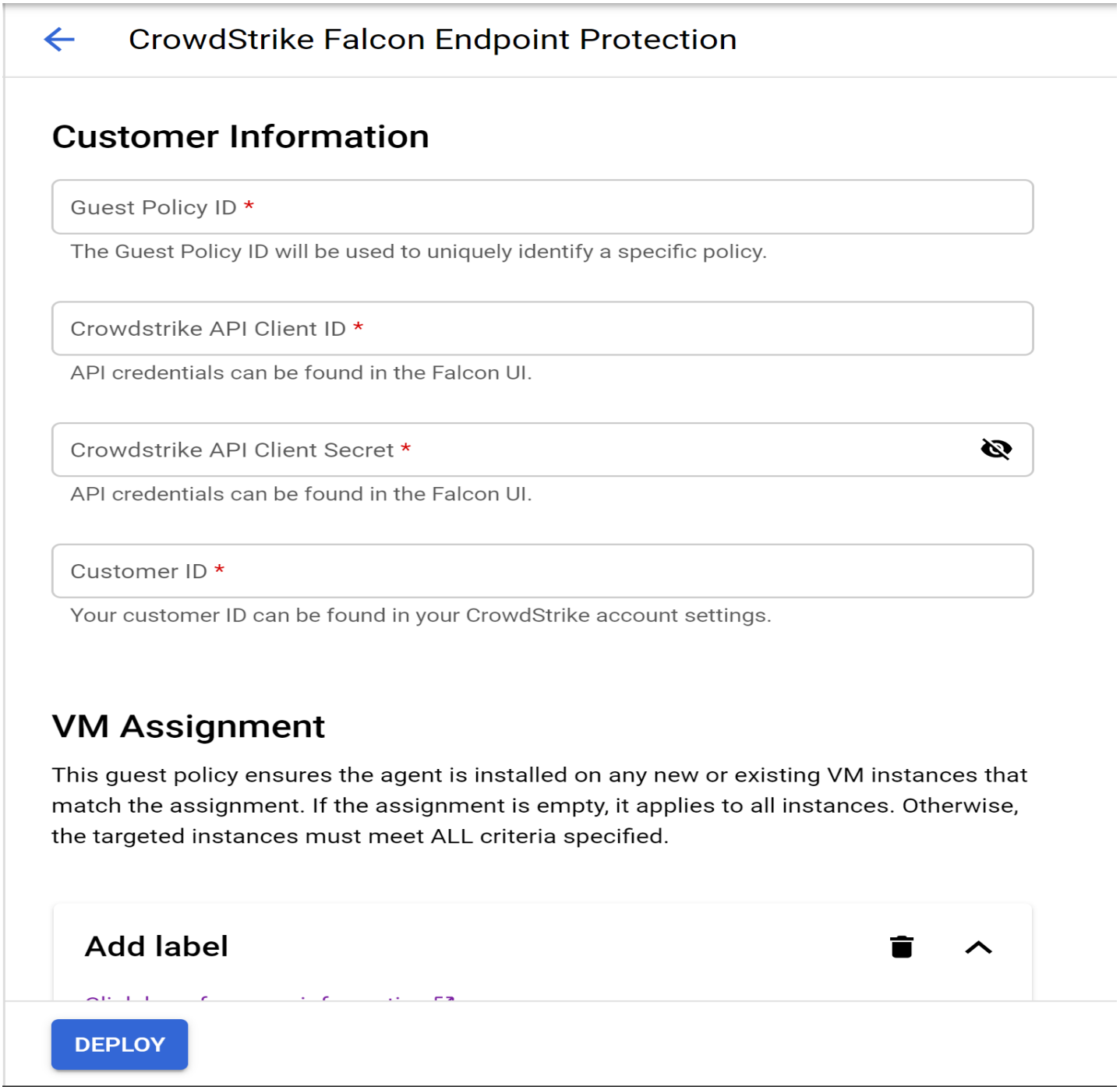
Installation Process:

Once the prerequisites have been completed, fill in the below fields at:
https://console.cloud.google.com/security/agent/deployment/crowdstrike

1) Guest Policy ID: A unique name for this deployment policy.
2) CrowdStrike API Client ID: As generated
3) CrowdStrike API Client Secret: As generated
4) Customer ID: The CID for your CrowdStrike Account, copied from: https://falcon.crowdstrike.com/hosts/sensor-downloads



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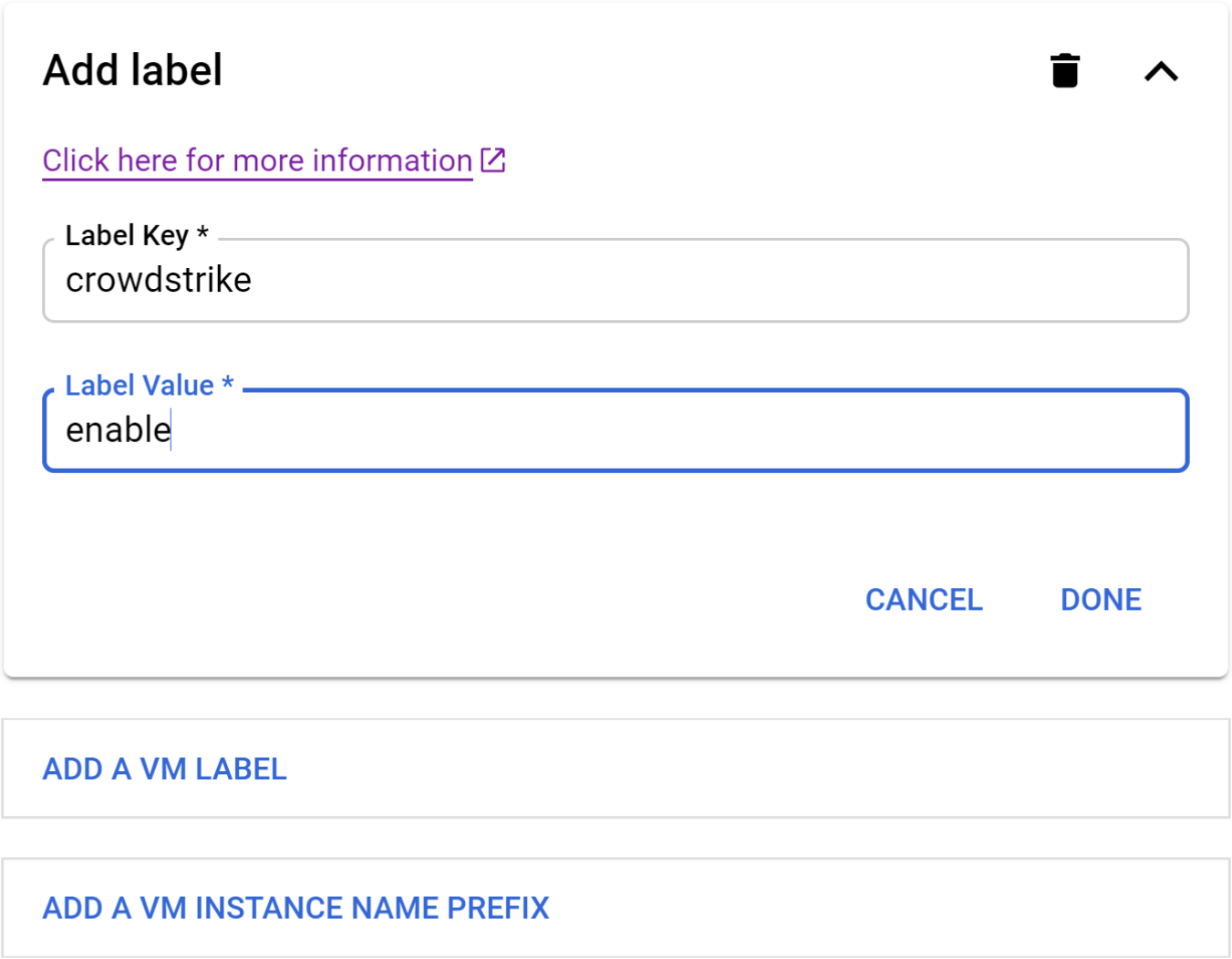
This guest policy ensures the agent is installed on any new or existing VM instances that match the assignment. If the assignment is empty, it applies to all instances. Otherwise, the targeted instances must meet ALL criteria specified.



Next, enter your Label key and Value from the prerequisites. You can also use VM Instance Name prefixs to target VMs. For example if all machines in the Dev group have the name “dev” prepended to the name, we can target machines like “dev-ib376”.

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Storage Bucket Details

As part of the deployment, the installation packages will be copied to a new Cloud Storage bucket owned by this project. If a bucket for this project and the selected region already exists, it will be reused.
Learn more about bucket regions

Select region for the Cloud Storage bucket *
us

The created Cloud Storage bucket will have a name of the form: **security-agents-us-***.

DEPLOY

Finally, select an appropriate region for the sensor binaries to be copied to to stage them for install. Clicking Deploy.

Clicking deploy will deploy the sensor to the targeted images. You will be redirected to the hosts console of the CrowdStrike UI to check the status of new Hosts. They may take 10-15 minutes to appear depending on your configuration of the OS Config agent. Existing and new machines that match the policies label or name prefix targeting will have the sensor installed.

When new machines are added ensure that they are part of your existing sensor update and prevention polices as some sensor versions may be released by CrowdStrike that are newer than the agents deployed. With auto updates, you can ensure your VMs have the latest version of the CrowdStrike Sensor.

Troubleshooting:

If you encounter hosts that do not appear in the Falcon Console, ensure that your targeting of the instances is correct and that your targets have the OSConfig agent installed. To Check if the agent has been installed, refer to: https://cloud.google.com/compute/docs/manage-os#agent-install

Additional Resources

Learn about the OSConfig Agent

GCP: OsConfig

Learn about deploying Security Agents with OSConfig

Documentation on Deploying security software agents

To learn more about CrowdStrike Covid-19 response and programs offered to secure remote works, click here.

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