To monitor Windows metrics using Cloud Monitoring, complete the following steps:

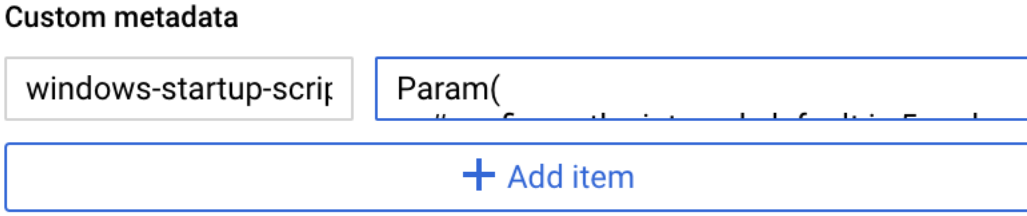
1. Set up the GPU metrics reporting script on each VM instance.
2. Restart the VMs or run the following command on the VMs

   ```
   C:\Program Files\Google\Compute Engine\metadata_scripts\run_startup_scripts.cmd
   ```

3. View logs in Google Cloud Cloud Monitoring.

Setting up the Windows metrics reporting script

1. Configure your VMs to run the script on each of your VM instances in either windows-startup-script-ps1 or windows-startup-script-url metadata
   - Configure windows-startup-script-ps1 metadata
     - By console
       1. Add Custom metadata
          a. Key: windows-startup-script-ps1
          b. Value: copy the content from the script



     - By CLI
       1. Download the script
       2. Run the following command

```
gcloud compute instances add-metadata EXAMPLE_INSTANCE_NAME \
  --metadata-from-file windows-startup-script-ps1=PATH_TO_FILE
```

   - Configure windows-startup-script-url metadata
     - By console

1. Upload the script to your Google Cloud Storage bucket
2. Add custom metadata
    a. Key: windows-startup-script-url
    b. Value: gs//bucket/your_script_filename.ps1

- By CLI
    1. Upload the script to your Google Cloud Storage bucket by running the following command

```
gsutil cp your_script_filename.ps1 gs://your_bucknet_name
```

2. Run the following command

```
gcloud compute instances add-metadata windows2019-t4-grid \
 --metadata windows-startup-script-url=gs://bucket/your_script_filename.ps1
```

2. Restart your VM or run the following command on the VMs

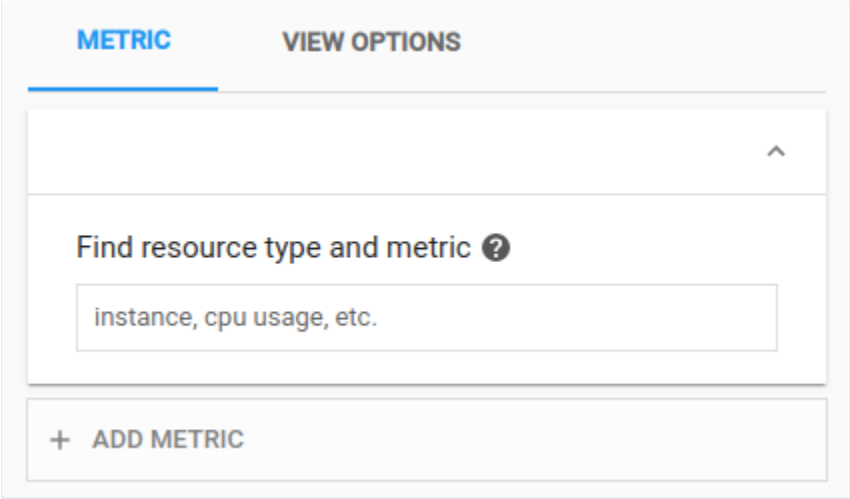
```
C:\Program Files\Google\Compute
Engine\metadata_scripts\run_startup_scripts.cmd
```

1.

Reviewing metrics in Cloud Monitoring

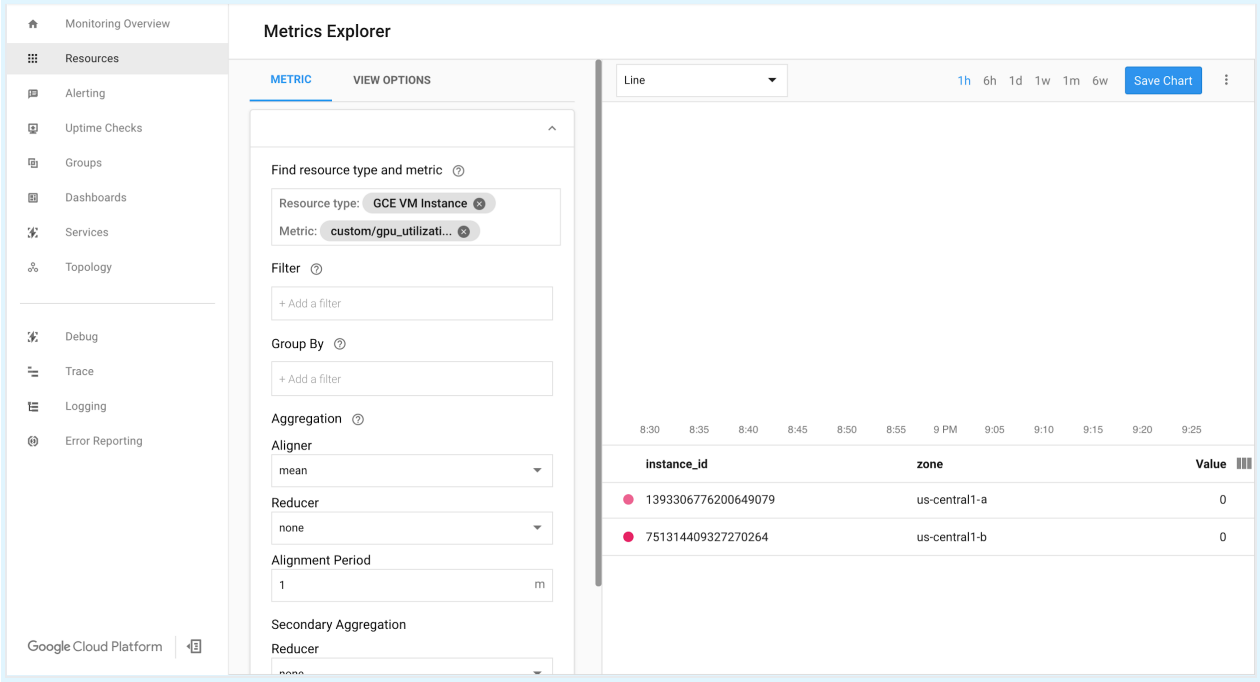
1. In the Google Cloud Console, select **Monitoring**, or use the following button: Go to Monitoring
   The first time you access any Monitoring functionality for a Google Cloud project, the project is associated with a Workspace. If you've never used Monitoring, then a Workspace is automatically created. Otherwise, a dialog is displayed and you are asked to select between creating a Workspace and adding your project to an existing Workspace.

2. In the Monitoring navigation pane, click  **Metrics Explorer**.
3. Ensure the **Metric** tab is selected:

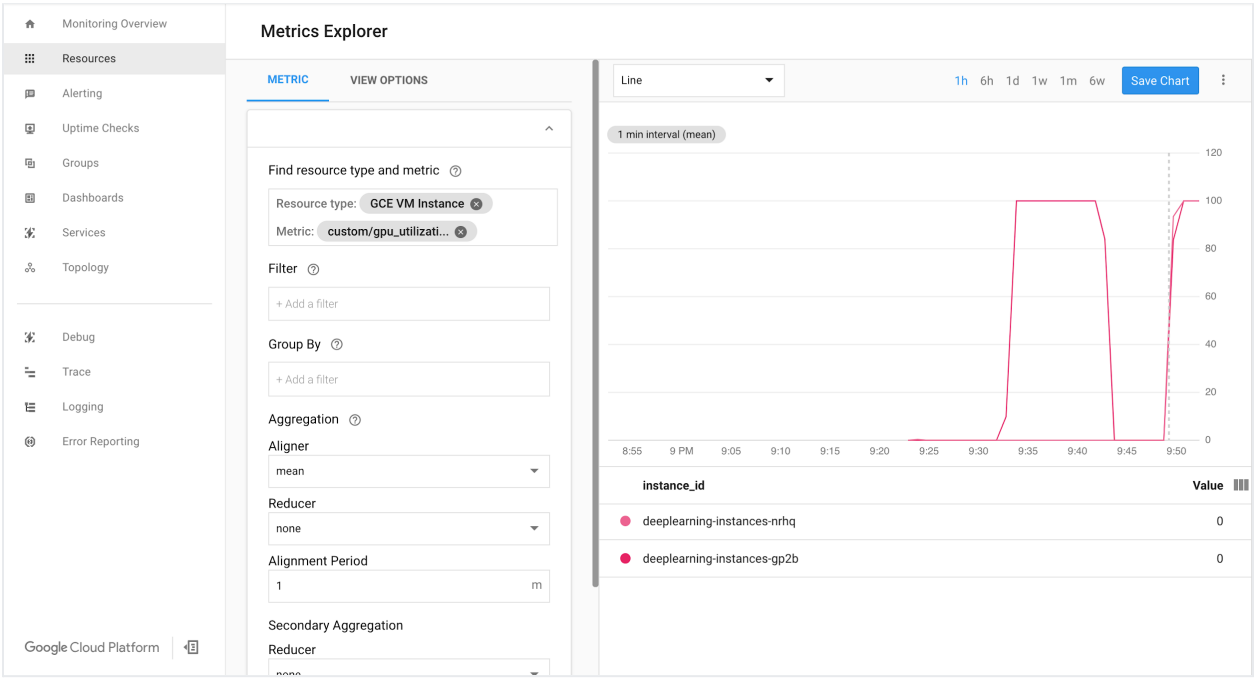


4. Search for `windows_*`.

Note: Custom metrics might take some time to display.



5. Your GPU utilization should resemble the following output:



6. (Optional) Set up autoscaling using managed instance groups. To get started, you can review the Setting up a multiple-zone cluster section of the TensorFlow inference workload tutorial.