



**Hewlett Packard**  
Enterprise

# **Enabling business automation using HPE GreenLake platform foundational APIs**

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Dev Experience, HPE GLP Engineering

March 2024

# Agenda

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- Why should you care about developers?
- What is the HPE GreenLake edge-to-cloud platform?
- What are the HPE GreenLake edge-to-cloud platform APIs?
- What are the prerequisites to use the HPE GreenLake platform APIs?
- Where is the documentation for the HPE GreenLake platform APIs?
- Demo 1: Exploring the HPE GreenLake platform APIs from the HPE GreenLake Developer Portal
- Demo 2: Exploring the HPE GreenLake platform APIs from OpenAPI tool such as Postman
- Demo 3: Writing scripts using the HPE GreenLake platform APIs
- What's next with the HPE GreenLake platform APIs?
- Resources to get started with HPE GreenLake platform APIs
- Demo 4: Leveraging HPE Developer Community Workshops-on-demand
- Call to action



# Why should we care about developers?

INVESTOR'S BUSINESS DAILY

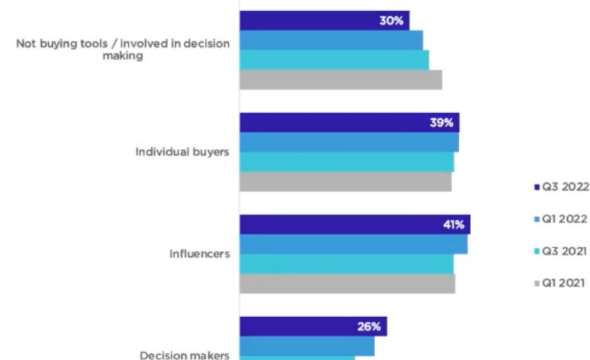
“Hewlett Packard Enterprise Aspires To Be The 'Fourth Cloud,' Says CEO”

- Other cloud vendors have a huge grip on developers, HPE is barely known by developers
- Developers are becoming influencers that we cannot continue to ignore
- You need to be better equipped to talk to customer developer leads
- You need to understand how our APIs can solve real customer problems (integrations, automation)

## Developers' decision making power has increased over time

% of developers (Q1 2021 n=17,580 | Q3 2021 n=18,961 | Q1 2022 n=14,929 | Q3 2022 n=12,980)

### Influence of developers on tool buying decisions

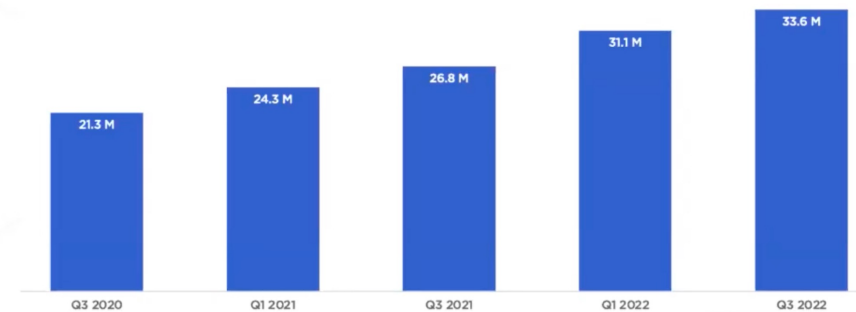


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## The global developer population has grown by about 25% year-on-year since Q3 2020

No. of developers (in millions)

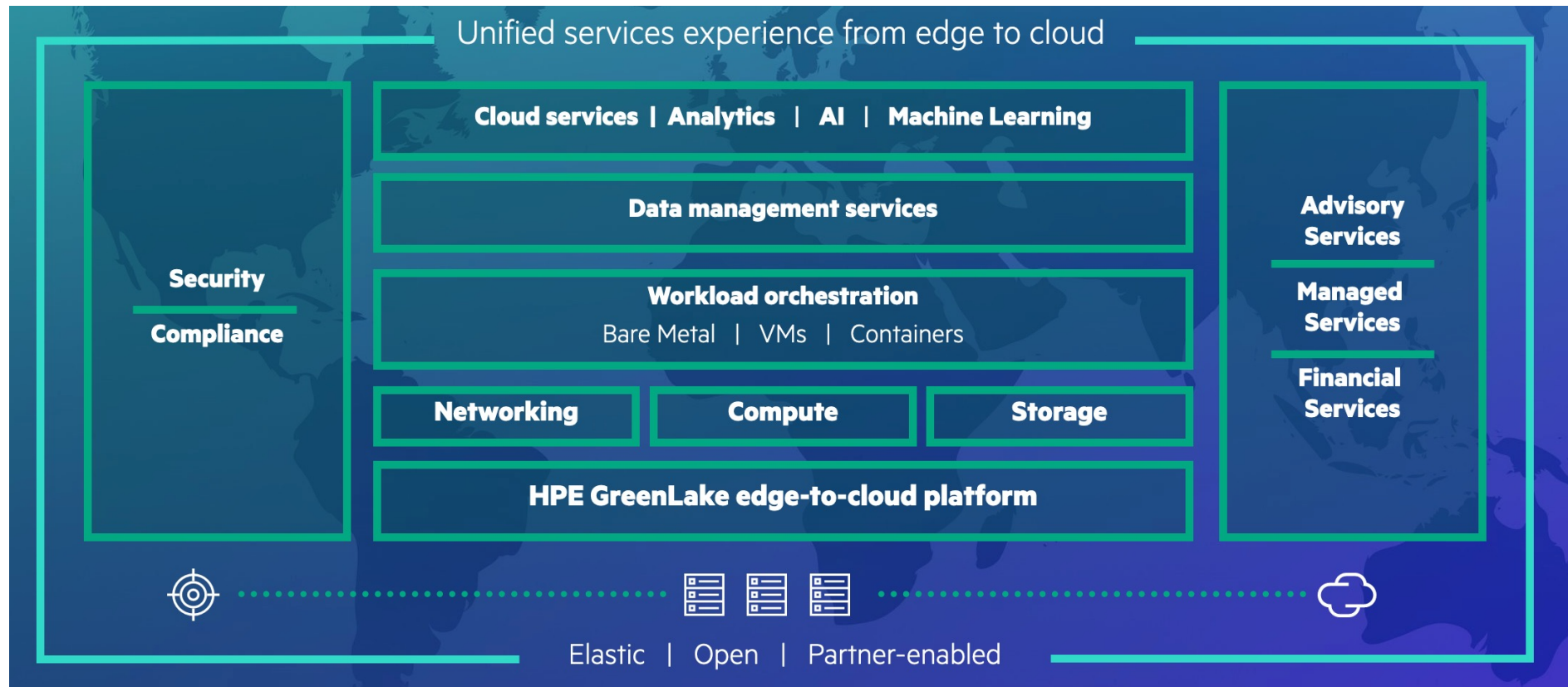
### Growth of the global developer population



Kostas Ko  
Sum

# What is the HPE GreenLake edge-to-cloud platform?

“HPE’s unified management plane for hybrid cloud, the HPE GreenLake edge-to-cloud platform (also referred to as the "HPE GreenLake platform" or just “the platform”), provides a set of common services that are used by cloud services that run on top of the HPE GreenLake platform. Cloud services rely on these common services for user's authentication, authorization, devices and subscriptions management, monitoring, audit trail and more. ”



# What are the HPE GreenLake platform APIs?

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*“The foundational APIs for the HPE GreenLake platform services are designed to enable IT administrators and IT operators to automate IT operations by **programmatically** managing users and resources in a HPE GreenLake platform **workspace**”*

- Released November 2023
- Conforms to OpenAPI specifications
- Unified endpoint: <https://global.api.greenlake.hpe.com/>
- The set of APIs for common platform services includes:
  - Identity and Access management
    - Workspace management
    - Identity management
  - Location management
  - Device inventory management
  - Subscription management
  - Audit log management
  - Wellness events management
  - Added in Feb 2024: Service Catalog



# What are the prerequisites to use the HPE GreenLake platform APIs?

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As an IT administrator, before you can work with the APIs for common HPE GreenLake platform services, you will need to:

- Create an HPE account and a company workspace for your organization. Ensure you get assigned the **Workspace Account Administrator** role in HPE GreenLake platform for your organization workspace.
- Gather the Workspace ID of your organization workspace
- Request HPE GreenLake platform API access (HPE GreenLake platform API onboarding support ticket using Workspace ID and user email)
- Generate API client credentials for the *HPE GreenLake platform*. The credentials consist of a *ClientID* and *ClientSecret* pair that represents the permissions granted to the user who creates the API client credentials.
- Generate an access token using the API client credentials



# Where is the documentation for the HPE GreenLake platform APIs?

- HPE GreenLake Developer Portal: <https://developer.greenlake.hpe.com>
- Public and Private content

The screenshot displays the HPE GreenLake Developer Portal interface. The top navigation bar includes the HPE GreenLake logo, the text 'HPE Greenlake Developer Portal', and menu items for 'Guides', 'Services', and 'About HPE Greenlake'. A search bar labeled 'Search Developer Portal' and a 'Login' button are also present. The left sidebar contains a navigation menu with items like 'Home', 'Guides', 'Services', 'Authentication', 'Audit Logs', 'Compute Ops Management', 'Devices', 'Subscriptions', 'Identity & Access Mgmt (IAM)', 'Locations', 'Wellness', 'HPE Developer Community', and 'About HPE GreenLake'. The main content area is titled 'Generate Access Token to access APIs' and includes a sub-header 'ON THIS PAGE' with links to 'Generate Access Token to access APIs', 'Delete or Reset Credentials', and 'Points to Remember'. The main text explains the steps to generate an access token, and two screenshots illustrate the 'Applications' menu and the 'View Available Applications' button.

HPE GreenLake

HPE Greenlake Developer Portal

Guides Services About HPE Greenlake

Search Developer Portal Login

Home

> Guides

∨ Services

Authentication

Audit Logs

Compute Ops Management

Devices

Subscriptions

Identity & Access Mgmt (IAM)

Locations

Wellness

HPE Developer Community

About HPE GreenLake

Last updated 1 year ago

## Generate Access Token to access APIs

The following steps describe how to manage applications, credentials from the HPE GreenLake platform UI, and then generate an access token for applications and HPE GreenLake Platform APIs. These steps assume that you have already created an HPE GreenLake account.

1. Click on the **Applications** menu item at the top.

The screenshot shows the HPE GreenLake dashboard with the 'Applications' menu item highlighted in red. The 'Applications' page is titled 'Discover and provision applications.' and includes a 'My Applications' section with a 'View Available Applications' button.

2. Click **View Available Applications**.

The screenshot shows the 'View Available Applications' page, which displays a message: 'It doesn't look like you have added any applications yet. View your available applications to add an app.' and a 'View Available Applications' button.



# Where is the documentation for the HPE GreenLake platform APIs?

- Detailed documentation of each API
- OpenAPI specs for download
- Option to Try It

Back to Services

### Audit logs

Overview

Guide

API reference

- GLCP Audit Logs API
- Audit logs - v1beta1
  - GET Get additional detail of an audit log.
  - GET Get all audit logs of an application or user.**
- Change Log

## Get all audit logs of an application or user.

**GET** /audit-log/v1beta1/logs > **Try it**

The audit logs can be filtered using a variety of parameters. Queries should be separated by **(and)** and can utilize **(eq)**, **(contains)**, and **(in)** operators to construct the final query. Each query should follow the format:

- key eq 'value' for equality operation.
- contains(key, 'value') for contains operation.
- key in ('value1', 'value2') for in operation.

The supported filter parameters.

- createdAt
- category
- description
- ipAddress
- target
- user/username
- workspace/workspaceName
- application/id
- region

Examples:

1. Get audit logs starting from 24/07/2023 4:20 AM UTC **(filter=createdAt ge '2023-07-24T04:21:22.00Z')**
2. Get audit logs with category *User Management* and *User Activity* **(filter=category in ('User Management', 'User Activity') and workspace/workspaceName eq 'HPE')**
3. Get application specific audit logs **(filter=region eq 'us-west' and application/id eq**

### Request samples

curl JavaScript Nodejs 2 more

Copy

```
curl -i -X GET \
  https://global.api.greenlake.hpe.com/audit-
  -H 'Authorization: Bearer <YOUR_JWT_HERE>'
```

### Response samples

200 400 401 2 more

application/json

Copy Expand all Collapse all

```
{
  - "items": [
    + { ... }
  ],
  "count": 0,
  "offset": 0,
  "total": 0,
  "remainingRecords": true
}
```





**DEMO 1: EXPLORING THE HPE  
GREENLAKE PLATFORM APIS  
FROM THE HPE GREENLAKE  
DEVELOPER PORTAL**

# Demo Steps

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1. Open HPE GreenLake Developer portal
2. Locate Audit Log management API
3. Open HPE GreenLake console to generate an access token
4. Copy the generated token
5. Back in HPE GreenLake Developer portal, paste generated token
6. Click Try it
7. Check status code & explore results



## HPE GreenLake Developer Portal

HPE GreenLake APIs provide customers and partners a standardized interface for integrating their applications with the cloud services. This portal presents the secure and scalable framework of APIs that helps you achieve data-first modernization by bringing the cloud experience to your distributed apps and data. [Learn more about HPE GreenLake](#)



### Guides

Access learning materials and best practices for working with HPE GreenLake APIs



### Services

Explore and integrate with a broad catalog of HPE GreenLake cloud services



### HPE Developer Community

Find more resources to collaborate and build applications and integrations with HPE



- Home
- > Guides
- > Services
  - Authentication
  - Audit Logs
  - Compute Ops Management
  - Devices
  - Subscriptions
  - Identity & Access Mgmt (IAM)
  - Locations
  - Wellness
  - HPE Developer Community

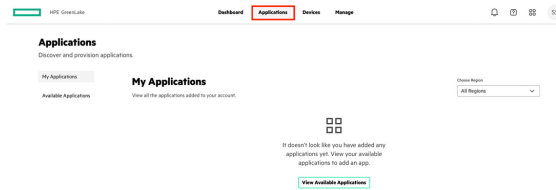
- About HPE GreenLake

Last updated 1 year ago

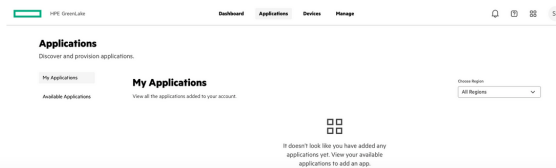
# Generate Access Token to access APIs

The following steps describe how to manage applications, credentials from the HPE GreenLake platform UI, and then generate an access token for applications and HPE GreenLake Platform APIs. These steps assume that you have already created an HPE GreenLake account.

1. Click on the **Applications** menu item at the top.



2. Click **View Available Applications**.



### ON THIS PAGE

- Generate Access Token to access APIs
- Delete or Reset Credentials
- Points to Remember



- Back to Services
- Audit logs
- Overview**
- Guide
- > API reference

Last updated 1 month ago

# HPE GreenLake API for Audit Logs

The HPE GreenLake Audit Log service offers a collection of RESTful APIs for publishing audit logs, managing configurations, and retrieving application-specific and overall platform logs.



- Back to Services
- Audit logs
  - Overview
  - Guide
  - API reference
    - GLCP Audit Logs API
    - Audit logs - v1beta1
      - GET Get additional detail of an audit log.
      - GET Get all audit logs of an application or user.
  - Change Log

# Get all audit logs of an application or user.

```
GET /audit-log/v1beta1/logs > Try it
```

The audit logs can be filtered using a variety of parameters. Queries should be separated by `and` and can utilize `eq`, `contains`, and `in` operators to construct the final query. Each query should follow the format:

- key eq 'value' for equality operation.
- contains(key, 'value') for contains operation.
- key in ('value1', 'value2') for in operation.

The supported filter parameters.

- createdAt
- category
- description
- ipAddress
- target
- user/username
- workspace/workspaceName
- application/id
- region

Examples:

Request samples

curl JavaScript Node.js 2 more

```
curl -i -X GET \
  https://global.api.greenlake.hpe.com/audit-
  -H 'Authorization: Bearer <YOUR_JWT_HERE>'
```

Copy

Response samples

200 400 401 2 more

application/json

Copy Expand all Collapse all

```
{
  "items": [
    + { ... }
  ],
  "count": 0,
  "offset": 0,
  "total": 0,
  "remainingRecords": true
}
```



Back to Services

Audit logs

Overview

Guide

API reference

GLCP Audit Logs API

Audit logs - v1beta1

Get additional detail of an audit log.

Get all audit logs of an application or user.

Change Log

### Get all audit logs of an application or user.

Request
Response
✕

Target server:

https://global.api.greenlake.hpe.com

**Security**

Bearer Token:

(without 'Bearer')

Field is required

Note: Your credentials will be saved until the end of the browser session

**Parameters**

GET /audit-log/v1beta1/logs?limit=50&offset=0

Send

The audit logs can be filtered using a variety of parameters. Queries should be separated by **and** and can utilize **eq**, **contains**, and **in** operators to construct the final query. Each query should follow the format:

- key eq 'value' for equality operation.
- contains(key, 'value') for contains operation.
- key in ('value1', 'value2') for in operation.

The supported filter parameters.

- createdAt

#### Request samples

curl
JavaScript
Nodejs
2 more

Copy

```
curl -i -X GET \
  https://global.api.greenlake.hpe.com/audit-log/v1beta1/loc
  -H 'Authorization: Bearer <YOUR_JWT_HERE>'
```

#### Response samples


200
400
401
2 more

Copy Expand all Collapse all

```
application/json

{
  "items": [
    + { ... }
  ],
  "count": 0,
  "offset": 0,
  "total": 0,
  "remainingRecords": true
}
```



Connecting to  Hewlett Packard  
Enterprise  
Sign-in with your HPE account to access HPE GreenLake edge-  
to-cloud Platform

## Sign In

Username

Remember me

**Next**

OR

**Sign in with SSO**

[Need help signing in?](#)

Don't have an account? [Sign up](#)








## Welcome to HPE GreenLake

Here's a list of workspaces we found associated with didier.lalli@hpe.com:

### Workspaces

4 Workspaces

-  HPEDEV -GLCP- Hackshack [Go to Workspace](#)
-  TME HPE [Go to Workspace](#)
-  HPE GreenLake edge-to-cloud platform demo [Go to Workspace](#)



### Getting Started

[Dismiss](#)



#### Find Services

Discover and launch services from our catalog.



#### Manage Workspace

Set up this workspace, users, access and more.

### Recent Services

☰ [My Services](#)

Compute Ops Management  
Compute

Launch

Aruba Central  
Networking

Launch

Data Services  
Storage

Launch

### Featured Services

[View Catalog](#)

**Recommended (5)**

[Private Cloud \(2\)](#)

[Storage \(5\)](#)

[Networking \(1\)](#)

[Workloads \(4\)](#)

[Management & Governance \(3\)](#)

HPE GreenLake Flex

Private Cloud

OpsRamp

HPE Sustainability

#### Quick Links

[Manage Workspace](#)

[Device Inventory](#)

[Service Subscriptions](#)

[User Management](#)

[Locations](#)

[Switch Workspace](#)

[Feedback](#)

### Learn

[HPE GreenLake Developer Portal](#)



Integrate apps and services.

[What's New on HPE GreenLake](#)



See the latest release information and announcements.



## Manage Workspace

Manage your HPE GreenLake workspace.



**HPEDev -GLCP- Hackshack**

**Workspace ID**

3009de2825f211ec8a84fedebcb4a754

**Workspace Status**

Registered

**Workspace Type**

Standard Enterprise Workspace

[Manage Workspace Type](#)



### Workspace Details

Manage your workspace's details including name, phone number, email, and MFA configuration.



### Identity & Access

Manage users and their access to services and resources.



### Audit Log

View changes and processes within all your applications.



### Authentication

Connect your company's single sign-on (SSO) with HPE GreenLake.



### API

Access application data through an API.



### IP Access Rules

Set up and manage IP access.



### Usage Reporting

Track subscription and system resource usage.



### Locations

Manage device addresses to automate supporting services.



← Manage Workspace

## API

Access your service data using our APIs.

### API Client Credentials

Client credentials are used to generate access tokens that are required for accessing workspace data. You can maintain a maximum of 5 credentials.

Create Credentials

 Compute ▾
 Demo ▾
 Didier Test API ▾
 test ▾
 TestDidier ▾

### Code Sample for Generating Access Token

Use token URL or code sample below to generate access tokens programmatically.

Token URL

`https://sso.common.cloud.hpe.com/as/token.oauth2`



View Code Sample



< Manage Workspace

## API

Access your service data using our APIs.

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Client credentials are used to generate access tokens that are required for accessing workspace data. You can maintain a maximum of 5 credentials.

Create Credentials

🔗 Compute

📄 Demo

📄 Didier Test API

📄 test

🔗 TestDidier

### Code Sample for Generating Access Token

Use token URL or code sample below to generate access tokens programmatically.

#### Create Credentials

Select the service manager that you want to access.

Select Service Manager\*

HPE GreenLake Cloud Platform

Credential Name\*

Provide a short name for this credential.

My new API client credentials

Cancel Create Credentials



← Manage Workspace


## API

Access your service data using our APIs.

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Client credentials are used to generate access tokens that are required for accessing workspace data. You can maintain a maximum of 5 credentials.

Create Credentials

 Compute	▾
 Demo	▾
 Didier Test API	▾
 test	▾
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`https://sso.common.cloud.hpe.com/as/token.oauth2`



View Code Sample



← Manage Workspace

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Create Credentials

- 🔌 Compute ▾
- 📄 Demo ▾
- 📄 Didier Test API ▲

Service Manager Instance

00000000-0000-0000-0000-000000000000 📄

Client ID

5d5c05c2-48c9-4f70-9f8e-b320fd15046f 📄

Connectivity Endpoint

N/A 📄

...

Generate Access Token

### Code Sample for Generating Access Token

Use token URL or code sample below to generate access tokens programmatically.

Token URL

https://sso.common.cloud.hpe.com/as/token.oauth2 📄

View Code Sample



< Manage Workspace

## API

Access your service data using our APIs.

### API Client Credentials

Client credentials are used to generate access tokens. You can maintain a maximum of 5 credentials.

Create Credentials

🔗 Compute

🔗 Demo

🔗 Didier Test API

Service Manager Instance

00000000-0000-0000-0000-000000000000

Client ID

5d5c05c2-48c9-4f70-9f8e-b320fd15046f

Connectivity Endpoint

N/A

### Generate Access Token

Provide the associated client secret to generate an access token. The token will only be valid for 2 hours from its creation.

Client ID

5d5c05c2-48c9-4f70-9f8e-b320fd15046f

Client Secret

Enter Client Secret

Cancel

Create Access Token

...

Generate Access Token





< Manage Workspace

## API

Access your service data using our APIs.

### API Client Credentials

Client credentials are used to generate access tokens. You can maintain a maximum of 5 credentials.

Create Credentials

🖥️ Compute

📄 Demo

📄 Didier Test API

Service Manager Instance

00000000-0000-0000-0000-000000000000

Client ID

5d5c05c2-48c9-4f70-9f8e-b320fd15046f

Connectivity Endpoint

N/A

### Access Token Created

You successfully created an access token for **Didier Test API**. Please copy the access token to a safe place.

Access Token

eyJhbGciOiJSUzI1NiIsImtpZCI6IjJGSmhvZ1IRMDZNazNBc2Q4UU8zU09ZVE9wayIsInBpLm

⚠️ **Note:** We do not store your access token. Copy this to a safe location.

Close

...

Generate Access Token



- Back to Services
- Audit logs**
- Overview
- Guide
- API reference
  - GLCP Audit Logs API
  - Audit logs - v1beta1
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- Change Log

## Get all audit logs of an application or user.

Request Response

Target server:

Security 🔒  
 Bearer Token:

Note: Your credentials will be saved until the end of the browser session

Parameters >

GET /audit-log/v1beta1/logs?limit=50&offset=0 Send

The audit logs can be filtered using a variety of parameters. Queries should be separated by `and` and can utilize `eq`, `contains`, and `in` operators to construct the final query. Each query should follow the format:

- key eq 'value' for equality operation.

Request samples

curl JavaScript Node.js 2 more

Copy

```
curl -i -X GET \
  https://global.api.greenlake.hpe.com/audit-
  -H 'Authorization: Bearer <YOUR_JWT_HERE>'
```

Response samples

200 400 401 2 more

application/json

Copy Expand all Collapse all

```
{
  "items": [
    + { ... }
  ],
  "count": 0,
  "offset": 0,
  "total": 0,
  "remainingRecords": true
}
```



- Back to Services
- Audit logs
- Overview
- Guide
- API reference
  - GLCP Audit Logs API
  - Audit logs - v1beta1
    - Get additional detail of an audit log.
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- Change Log

## Get all audit logs of an application or user.

```
GET /audit-log/v1beta1/logs?limit=50&offset=0
```

**Response**

Status: 200 OK Time: 4003ms Size: 28.84 KB

Headers:

```
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: *
ApiGW-Requestid: RvcP_hF0PHcEMPw=
Cache-Control: no-cache-no-store-must-revalidate-private
Ccs-Transaction-Id: 4c15f769-d30f-4414-88a5-a3d500e48228
Connection: keep-alive
Content-Length: 28841
Content-Security-Policy: default-src 'none';
Content-Type: application/json
Date: Thu18 Jan 2024 15:16:28 GMT
Pragma: no-cache
Referer-Policy: same-origin
Server: istio-envoy
Strict-Transport-Security: max-age=31536000; includeSubDomains; preload
Via: 1.1 a170450d5cd56debfea916e005590e76.cloudfront.net (CloudFront)1.1 93db32d5347403a3ab35b4
X-Amz-Cf-Id: ctYLAYMzckJtvgD5D6jEQS050nb0refdy19E0xs0eKwfZCjppEbv7Q==
X-Amz-Cf-Pop: IAD55-P5IAD66-C1
X-Cache: Miss from cloudfront
X-Content-Type-Options: nosniff
```

Request samples

curl JavaScript Node.js 2 more

```
curl -i -X GET \
https://global.api.greenlake.hpe.com/audit-log/v1beta1/logs \
-H 'Authorization: Bearer <YOUR_JWT_HERE>'
```

Response samples

200 400 401 2 more

application/json

```
{
  "items": [
    { ... }
  ],
  "count": 0,
  "offset": 0,
  "total": 0,
  "remainingRecords": true
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```



Back to Services

Audit logs

Overview

Guide

API reference

GLCP Audit Logs API

Audit logs - v1beta1

Get additional detail of an audit log.

Get all audit logs of an application or user.

Change Log

## Get all audit logs of an application or user.

```

Edit Request Response
{
  - "items": [
  - {
    "id": "JZskHY0BziqCRB0H4ctu",
    "type": "/audit-log/logs",
    + "user": { - },
    + "workspace": { - },
    "category": "Credential Management",
    + "application": { - },
    "description": "User didier.lalli@hpe.com with client id 5d5c05c2-48c9-4f70-9f8e-b320fd15",
    "generation": 1,
    "createdAt": "2024-01-18T15:16:12.000000Z",
    "updatedAt": "2024-01-18T15:16:12.000000Z",
    + "additionalInfo": { - },
    "hasDetails": false
  },
  {
    "id": "vpskHY0BziqCRB0HhbcJ",
    "type": "/audit-log/logs",
    + "user": { - },
    + "workspace": { - },
    "category": "Customer Management",
    + "application": { - },
    "description": "Loading workspace 3009de2825f211ec8a84fedebcb4a754 for user didier.lalli@",
    "generation": 1,
    "createdAt": "2024-01-18T15:15:49.000000Z",
    "updatedAt": "2024-01-18T15:15:49.000000Z",
    + "additionalInfo": { - },
    "hasDetails": false
  },
  + { - },
}
GET /audit-log/v1beta1/logs?limit=50&offset=0 Resend
```

Request samples

```

curl JavaScript Nodejs 2 more
Copy
curl -i -X GET \
https://global.api.greenlake.hpe.com/audit-log/v1beta1/logs \
-H 'Authorization: Bearer <YOUR_JWT_HERE>'
```

Response samples

```

200 400 401 2 more
application/json
Copy Expand all Collapse all
{
  - "items": [
  + { - }
  ],
  "count": 0,
  "offset": 0,
  "total": 0,
  "remainingRecords": true
}
```



# Quick Poll #1



**Demo 2: Exploring the HPE  
GreenLake platform APIs from  
OpenAPI tool such as Postman**

# Demo Steps

---

1. In HPE GreenLake Developer portal show where to download the Open API Specs
2. Open GLP-API-Tooling community GitHub repo
3. Locate curated Postman collection and copy JSON content
4. Open Postman
5. Import new collection and paste JSON from clipboard
6. Check content of newly imported collection, customize variables for your environment
7. Use GenerateToken call
8. Call other API, for example to get details of workspace
9. Explore the rest of the collection



- Back to Services
- Audit logs**
- Overview
- Guide
- API reference
  - GLCP Audit Logs API**
  - Audit logs - v1beta1
- Change Log

# GLCP Audit Logs API (v1beta1)

Download OpenAPI specification: [Download](#)

License: [HPE License](#)

The HPE GreenLake Audit Log Service offers a collection of RESTful APIs for publishing audit logs and querying both application-specific and overall platform logs.

[Next to Get additional detail of an audit log.](#)





- Files**
- main + 🔍
- Go to file t
- Postman-Collections
    - APIs for common HPE Greenla...
    - README.md
  - Scripts
    - bulk-invite.ps1
    - spy-workspace.ps1
    - spy\_workspace.py
    - spy\_workspace.sh
    - userlist.xlsx
    - LICENSE
    - README.md

GLP-API-Tooling / Postman-Collections / 📄 Add file ⋮

👤 **choukden** Update README.md 42b6623 · last week 🕒 History

Name	Last commit message	Last commit date
..		
APIs for common HPE Greenlake platform services.json	Add files via upload	last week
README.md	Update README.md	last week

**README.md** ✎

```
Postman collections for the foundational APIs for the HPE GreenLake platform services
```



hpe-dev-incubator / GLP-API-Tooling

Code Issues Pull requests Actions Projects Security Insights Settings

Files

main

Go to file

Postman-Collections

- APIs for common HPE Greenla...
- README.md

Scripts

- bulk-invite.ps1
- spy-workspace.ps1
- spy\_workspace.py
- spy\_workspace.sh
- userlist.xlsx
- LICENSE
- README.md

GLP-API-Tooling / Postman-Collections / APIs for common HPE Greenlake platform services.json

choukden Add files via upload 20f4054 · last week History

Code Blame 14873 lines (14873 loc) · 566 KB Code 55% faster with GitHub Copilot

```
1 {
2   "info": {
3     "_postman_id": "2be72f9d-9e7d-4833-b489-cc1e38e4d1c0",
4     "name": "APIs for common HPE Greenlake platform services",
5     "description": "Collection for APIs for common HPE GreenLake platform services with Variables defined at the Collection level.",
6     "schema": "https://schema.getpostman.com/json/collection/v2.1.0/collection.json",
7     "_exporter_id": "2747724"
8   },
9   "item": [
10    {
11      "name": "Step1-Generate Token",
12      "item": [
13        {
14          "name": "Generate AccessToken",
15          "event": [
16            {
17              "listen": "test",
18              "script": {
19                "exec": [
20                  "var jsonData = JSON.parse(responseBody).access_token;\r",
21                  "pm.collectionVariables.set(\"BearerToken\", jsonData);\r",
22                  "console.log(jsonData)"
23                ],
24                "type": "text/javascript"
25              }
26            }
27          ],
28          "request": {
29            "method": "POST",
30            "url": "https://api.greenlake.com/v1.0/api/identity/authenticate"
31          }
32        }
33      ]
34    }
35  ]
36 }
```



Home Workspaces API Network

Search Postman

Invite Upgrade

My Workspace New Import


No Environment

Collections

- > External and Global apis for aquila
- > GLP Account Management
- > GLP Audit Logs API
- > GLP AuthZ
- > GLP Billing Documents Specification
- > GLP Inventory NBAPI
- > GLP Locations
- > GLP Wellness
- > Google Analytics
- > GreenLake
- > HPE Compute Ops Management
- > HPE Compute Op... Lionel's CDM Co...
- > HPE Container Platform
- > New Collection
- > New Collection
- > New-ACT-SM-NBAPI
- > Volumio
- > WeatherReport
- > ZZZ- APIs for common HPE Greenlake...


Environments

History



Open Workspace Overview

Create a new request:



Online Find and replace Console

Postbot Runner Start Proxy Cookies Trash



Home Workspaces API Network Search Postman Invite Upgrade

My Workspace New Import + No Environment

Collections

- > External and Global apis for aquila

Environments

- > GLP Account Management
- > GLP Audit Logs API

History

- > GLP AuthZ
- > GLP Billing Documents Specification

+

- > GLP Inventory NBAPI
- > GLP Locations
- > GLP Wellness
- > Google Analytics
- > GreenLake
- > HPE Compute Ops Management
- > HPE Compute Op... Lionel's COM Co...
- > HPE Container Platform
- > New Collection
- > New Collection
- > New-ACT-SM-NBAPI
- > Volumio
- > WeatherReport
- > ZZZ- APIs for common HPE Greenlake...

Paste cURL, Raw text or URL...

Tip: You can also paste cURL in the request bar to import Dismiss

Drop anywhere to import  
Or select files or folders

Migrate to Postman Other Sources Learn more about importing data

Online Find and replace Console Import Complete Postbot Runner Start Proxy Cookies Trash



Home Workspaces API Network Search Postman Invite Upgrade

My Workspace New Import APIs for common HPE Gre... No Environment

APIs for common HPE Greenlake platform services Share Fork 0 Run Save

Overview Authorization Pre-request Script Tests Variables Runs

## APIs for common HPE Greenlake platform services

Created by You  
Created on 18 Jan 2024, 12:20 PM

Collection for APIs for common HPE GreenLake platform services with Variables defined at the Collection level.

[View complete documentation ->](#)

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Home Workspaces API Network Search Postman Invite Upgrade

My Workspace New Import APIs for common HPE Gr...

APIs for common HPE Greenlake platform services

Overview Authorization Pre-request Script Tests Variables Runs

These variables are specific to this collection and its requests. Learn more about [collection variables](#)

Filter variables

Variable	Initial value	Current value
<input checked="" type="checkbox"/> baseUrl	https://global.api.greenlake.hpe.com	https://global.api.greenlake.hpe.com
<input checked="" type="checkbox"/> BearerToken		
<input checked="" type="checkbox"/> ClientId	SetYourClientId	SetYourClientId
<input checked="" type="checkbox"/> ClientSecret	SetYourClientSecret	SetYourClientSecret
<input checked="" type="checkbox"/> sso_URI	sso.common.cloud.hpe.com/as/token.oauth2	sso.common.cloud.hpe.com/as/token.oauth2
<input checked="" type="checkbox"/> GLP_Application_Id	00000000-0000-0000-0000-000000000000	00000000-0000-0000-0000-000000000000
<input checked="" type="checkbox"/> WorkspaceId	SetYourWorkspaceId	SetYourWorkspaceId
<input checked="" type="checkbox"/> COM_Application_Id	SetYourComputeOpsMgmtAppId	SetYourComputeOpsMgmtAppId
<input checked="" type="checkbox"/> Aruba_Application_Id	SetYourArubaCentralAppId	SetYourArubaCentralAppId
<input checked="" type="checkbox"/> DSCC_Application_Id	SetYourDataServicesAppId	SetYourDataServicesAppId
<input checked="" type="checkbox"/> DeviceId		
<input checked="" type="checkbox"/> UserId		
<input checked="" type="checkbox"/> UserIdNoDash		
<input checked="" type="checkbox"/> InvitedUserId		
<input checked="" type="checkbox"/> InvitedUserIdNoDash		
<input checked="" type="checkbox"/> AsyncOpsTransaction_Id		

**Use variables to reuse values and protect sensitive data**

Store sensitive data in variable type secret to keep its values masked on the screen. Learn more about [variable type](#)  
Work with the current value of a variable to prevent sharing sensitive values with your team. Learn more about [variable values](#)

Online Find and replace Console Import Complete Postbot Runner Start Proxy Cookies Trash



Home Workspaces API Network Search Postman

My Workspace New Import POST Generate AccessToken No Environment

APIs for common HPE Greenlake platform services / Step1-Generate Token / Generate AccessToken Save

POST https://{{sso\_URI}}


Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none
  form-data
  x-www-form-urlencoded
  raw
  binary
  GraphQL

Key	Value	Description	Bulk Edit
<input checked="" type="checkbox"/> grant_type	client_credentials		
<input checked="" type="checkbox"/> client_id	{{ClientId}}		
<input checked="" type="checkbox"/> client_secret	{{ClientSecret}}		
Key	Value	Description	

Response

 Click Send to get a response

Online
  Find and replace
  Console
  Import Complete
  Postbot
  Runner
  Start Proxy
  Cookies
  Trash







Home Workspaces API Network Search Postman

My Workspace New Import POST Generate AccessToken APIs for common HPE Gre GET workspace informati

APIs for common HPE Greenlake platform services / Step1-Generate Token / Get workspace information Save Send

GET ((baseUrl))/workspaces/v1/workspaces/workspaceld

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies


Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

Path Variables

Key	Value	Description	Bulk Edit
workspaceld	{{Workspaceld}}	(Required) The unique identifier of the workspace.	

Response



Click Send to get a response

Online Find and replace Console Import Complete Postbot Runner Start Proxy Cookies Trash



Home Workspaces API Network Search Postman

My Workspace New Import POST Generate AccessToken APIs for common HPE Gre GET Get workspace informati + No Environment

APIs for common HPE Greenlake platform services / Step1-Generate Token / Get workspace information Save Send

GET {{baseUrl}}/workspaces/v1/workspaces/workspaceld

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

Path Variables

Key	Value	Description	Bulk Edit
workspaceld	{{WorkspaceId}}	(Required) The unique identifier of the workspace.	

Body Cookies Headers (22) Test Results Status: 200 OK Time: 3.45 s Size: 1.13 KB Save as example

Pretty Raw Preview Visualize JSON

```

1 {
2   "id": "3009de28-25f2-11ec-8a84-fedebcb4a754",
3   "type": "workspace",
4   "generation": 46,
5   "createdAt": "2021-10-05T15:37:45.991228",
6   "updatedAt": "2023-12-18T15:17:36.021813",
7   "workspaceName": "HPEDEV -GLCP- Hackshack",
8   "createdBy": "mathieu.losmede@hpe.com"
9 }

```

Online Find and replace Console Import Complete Postbot Runner Start Proxy Cookies Trash



Home Workspaces ▾ API Network ▾

Search Postman

Invite Upgrade

My Workspace **New Import** POST Generate AccessToken APIs for common HPE Gre GET Get workspace informati Step4-Devices and Subscr + No Environment

Collections + APIS for common HPE Greenlake pl... **Step4-Devices and Subscr...** Run Save

- APIS for common HPE Greenlake pl...
  - Step1-Generate Token
    - POST Generate AccessToken
    - GET Get workspace information
  - Configuring and Managing G...
    - Step2-IAM
      - identity
      - workspaces
    - Step3-Locations
      - locations/v1beta1/locati...
    - Step4-Devices and Subscr...**
      - devices/v1beta1
      - subscriptions
    - Tracking GLP Workspace
    - Step5-audit-log
      - audit-log/v1beta1/logs
    - Step6-Wellness
      - wellness/v2beta1/events
  - APIS for common HPE Greenlake pl...
    - Step1-Generate Token
    - Configuring and Managing G...
      - Step2-IAM
        - identity
          - v1
            - users
              - {id}
              - GET Get users by User...
              - GET Get Invited users ...
              - GET Get users

Overview Authorization Pre-request Script Tests

## Step4-Devices and Subscriptions

Add folder description



Home Workspaces API Network Search Postman Invite Upgrade

My Workspace New Import POST Generate AccessToken APIs for common HPE Gre GET Get workspace informati GET Get all audit logs of an

APIs for common HPE Greenlake platform services / Tracking GLP Works... / Step5-audit-log / audit-log/v1beta1/logs / Get all audit logs of an application or user. Save

GET (baseUrl)/audit-log/v1beta1/logs Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
<input type="checkbox"/> filter	<string>		
<input type="checkbox"/> select	<string>	Use the 'select' query parameter to restrict the number of p.....	
<input type="checkbox"/> all	<string>	Provide a free-text search to perform a comprehensive search...	
<input type="checkbox"/> limit	50	How many items to return at one time (max 2000)	
<input type="checkbox"/> offset	0	Specifies the zero-based resource offset to start the respons...	
Key	Value	Description	

Body Cookies Headers (22) Test Results Status: 200 OK Time: 948 ms Size: 28.92 KB Save as example

Pretty Raw Preview Visualize JSON

```

152   "type": "/audit-log/logs",
153   "user": {
154     "username": "john.doe@hpdev.io"
155   },
156   "workspace": {
157     "id": "3009de2825f211ec8a84fedebcb4a754",
158     "workspaceName": "HPEDEV -GLCP- Hackshack"
159   },
160   "category": "User Management",
161   "application": {
162     "id": "00000000-0000-0000-0000-000000000000"
163   },
164   "description": "User john.doe@hpdev.io logged out",
165   "generation": 1,
166   "createdAt": "2024-01-16T09:53:08.000000Z",
167   "updatedAt": "2024-01-16T09:53:08.000000Z",
168   "additionalInfo": {
169     "ipAddress": "91.166.228.215"
170   },
171   "httpStatus": 401

```

Online Find and replace Console Import Complete Postbot Runner Start Proxy Cookies Trash



## **Demo 3: Writing scripts using the HPE GreenLake platform APIs**

# Demo Steps

---

1. Open GLP-API-Tooling community GitHub repo
2. Locate Script folder with sample code in Python, PowerShell and bash
3. Clone repo and open PowerShell script in Visual Studio Code
4. Explore the code
5. Run the code
6. Login to HPE GreenLake console and make a change in workspace to generate audit logs
7. Check running code to see new audit logs being picked-up



- Files
  - main
  - Go to file
  - Postman-Collections
    - APIs for common HPE Greenlake...
    - README.md
  - Scripts
    - bulk-invite.ps1
    - spy-workspace.ps1
    - spy\_workspace.py
    - spy\_workspace.sh
    - userlist.xlsx
    - LICENSE
    - README.md

GLP-API-Tooling / Scripts / Add file

Didier-Lalli Adding bulk-invite by Dung 117b232 · last week History

Name	Last commit message	Last commit date
..		
bulk-invite.ps1	Adding bulk-invite by Dung	last week
spy-workspace.ps1	Fix	last month
spy_workspace.py	Fix	last month
spy_workspace.sh	Fix	last month
userlist.xlsx	Adding bulk-invite by Dung	last week



hpe-dev-incubator / GLP-API-Tooling

Code Issues Pull requests Actions Projects Security Insights Settings

Files

- main
- Go to file
- Postman-Collections
  - APIs for common HPE Greenla...
  - README.md
- Scripts
  - bulk-invoke.ps1
  - spy-workspace.ps1
  - spy\_workspace.py
  - spy\_workspace.sh
  - userlist.xlsx
  - LICENSE
  - README.md

GLP-API-Tooling / Scripts / spy\_workspace.sh

Didier-Lalli Fix 913efc3 · last month History

Code Blame Executable File · 54 lines (46 loc) · 1.81 KB Code 55% faster with GitHub Copilot

```
1 #!/bin/bash
2 if [[ -z "${CLIENTID}" ]]; then
3   read -p "Enter your HPE GreenLake Client ID: " client_id
4 else
5   client_id="${CLIENTID}"
6 fi
7 if [[ -z "${CLIENTSECRET}" ]]; then
8   client_secret=""
9   pass_var="Enter your HPE GreenLake Client Secret: " # to take password character wise
10  while IFS= read -p "$pass_var" -r -s -n 1 letter
11  do
12    if [[ $letter == '$\n' ]] # if enter is pressed, exit the loop
13    then
14      break
15    fi
16
17    client_secret="${client_secret}$letter" # store the letter in pass, use pass+="$letter" for more concise and readable.
18    pass_var="*" # in place of password the asterisk (*) will be printed
19  done
20  else
21    client_secret="${CLIENTSECRET}"
22  fi
23
24 # Get a token
25 access_token="Bearer "`curl -s --location 'https://sso.common.cloud.hpe.com/as/token.oauth2' \
26 --header 'Content-Type: application/x-www-form-urlencoded' \
27 --data-urlencode 'grant_type=client_credentials' \
28 --data-urlencode 'client_id=${client_id}' \
29 --data-urlencode 'client_secret=${client_secret}' | jq .access_token | xargs`
30
31 # Loop until CTRL-C or token expires (2 hours)
32 ..
```





```
GLP-API-Tooling
userlist.csv U  spy_workspace.sh X  bulk_invite.sh U  bulk_invite.ps1 U
Scripts > $ spy_workspace.sh
1  #!/bin/bash
2  if [[ -z "${CLIENTID}" ]]; then
3      read -p "Enter your HPE GreenLake Client ID: " client_id
4  else
5      client_id="${CLIENTID}"
6  fi
7  if [[ -z "${CLIENTSECRET}" ]]; then
8      client_secret=""
9      pass_var="Enter your HPE GreenLake Client Secret: " # to take password character wise
10     while IFS= read -p "$pass_var" -r -s -n 1 letter
11     do
12         if [[ $letter == '$\0' ]] # if enter is pressed, exit the loop
13         then
14             break
15         fi
16         client_secret+="${client_secret}${letter}" # store the letter in pass, use pass+="$letter" for more concise and readable.
17         pass_var+="*" # in place of password the asterisk (*) will be printed
18     done
19 else
20     client_secret="${CLIENTSECRET}"
21 fi
22
23 # Get a token
24 access_token="Bearer ""curl -s --location 'https://sso.common.cloud.hpe.com/as/token.oauth2' \
25 --header 'Content-Type: application/x-www-form-urlencoded' \
26 --data-urlencode 'grant_type=client_credentials' \
27 --data-urlencode 'client_id=${client_id}' \
28 --data-urlencode 'client_secret=${client_secret}' | jq .access_token | xargs"
29
30
31 # Loop until CTRL-C or token expires (2 hours)
32 for (( ; ))
33 do
34     d= date -v "-1M" -u +"%Y-%m-%dT%H:%M:%S.00Z"
35     echo Last check at \$(UTC): $d
36     echo '-----'
37
38     # Fetch audit logs since last minute
39     http_response=$(curl -s -o out.json -w "%{http_code}" --location "https://global.api.greenlake.hpe.com/audit-log/v1beta1/logs?filter=startTime%20ge%20'$d'" \
40 --header 'Accept: application/json' \
41 --header "Authorization: $access_token")
42
43 if [ "$http_response" != "200" ]; then
44     echo "Error calling the API or token has expired!"
45     exit $http_response
46 else
47     cat out.json | jq '.items[] | { createdAt: .createdAt, username: .user.username, description: .description, ipAddress: .additionalInfo.ipAddress}'
48 fi
49
50
```



```
GLP-API-Tooling
userlist.csv U spy_workspace.sh X bulk_invite.sh U bulk_invite.ps1 U
Scripts > $ spy_workspace.sh
1 #!/bin/bash
2 [[ -z "${CLIENTID}" ]]; then
3   read -p "Enter your HPE GreenLake Client ID: " client_id
4 else
5   client_id="${CLIENTID}"
6 fi
7 if [[ -z "${CLIENTSECRET}" ]]; then
8   client_secret=""
9   pass_var="Enter your HPE GreenLake Client Secret: " # to take password character wise
10  while IFS= read -p "$pass_var" -r -s -n 1 letter
11  do
12    if [[ $letter == '$\0' ]] # if enter is pressed, exit the loop
13    then
14      break
15    fi
16    client_secret="${client_secret}${letter}" # store the letter in pass, use pass+letter for more concise and readable.
17    pass_var="*" # in place of password the asterisk (*) will be printed
18  done
19 else
20   client_secret="${CLIENTSECRET}"
21 fi
22 # Get a token
23 access_token="Bearer " curl -s --location 'https://sso.common.cloud.hpe.com/as/token.oauth2' \
24 --header 'Content-Type: application/x-www-form-urlencoded' \
25 --data-urlencode 'grant_type=client_credentials' \
26 --data-urlencode 'client_id=${client_id}' \
27 --data-urlencode 'client_secret=${client_secret}' | jq .access_token | xargs
28
29 # Loop until CTRL-C or token expires (2 hours)
30 for (( ; ))
31 do
32   d=$(date -v "-1M" -u +"%Y-%m-%dT%H:%M:%S.00Z")
33   echo Last check at \ (UTC): $d
34   echo '-----'
35
36   # Fetch audit logs since last minute
37   http_response=$(curl -s -o out.json -w "%{http_code}" --location "https://global.api.greenlake.hpe.com/audit-log/v1beta1/logs?filter=startTime%20ge%20${d}" \
38 --header 'Accept: application/json' \
39 --header "Authorization: $access_token")
40
41 if [ "$http_response" != "200" ]; then
42   echo "Error calling the API or token has expired!"
43   exit $http_response
44 else
45   cat out.json | jq '.items[] | { createdAt: .createdAt, username: .user.username, description: .description, ipAddress: .additionalInfo.ipAddress}'
46 fi
47
48
49
50
```



```
GLP-API-Tooling
userlist.csv U  spy_workspace.sh X  bulk_invite.sh U  bulk_invite.ps1 U
Scripts > $ spy_workspace.sh
16
17     client_secret="${client_secret}$letter"      # store the letter in pass, use pass+="letter" for more concise and readable.
18     pass_var="*"                                # in place of password the asterisk (*) will be printed
19 done
20 else
21     client_secret="${CLIENTSECRET}"
22 fi
23
24 # Get a token
25 access_token="Bearer ""curl -s --location 'https://sso.common.cloud.hpe.com/as/token.oauth2' \
26 --header 'Content-Type: application/x-www-form-urlencoded' \
27 --data-urlencode 'grant_type=client_credentials' \
28 --data-urlencode 'client_id=${client_id}' \
29 --data-urlencode 'client_secret=${client_secret}' | jq .access_token | xargs"
30
31
32 # Loop until CTRL-C or token expires (2 hours)
33 for (( ; ; ))
34 do
35     d=$(date -v "-1M" -u "%Y-%m-%dT%H:%M:%S.00Z")
36     echo Last check at \$(UTC): $d
37     echo '-----'
38
39     # Fetch audit logs since last minute
40     http_response=$(curl -s -o out.json -w "%{http_code}" --location "https://global.api.greenlake.hpe.com/audit-log/v1beta1/logs?filter=startTime%20ge%20$d" \
41 --header 'Accept: application/json' \
42 --header "Authorization: $access_token")
43
44     if [ "$http_response" != "200" ]; then
45         echo "Error calling the API or token has expired!"
46         exit $http_response
47     else
48         cat out.json | jq '.items[] | { createdAt: .createdAt, username: .user.username, description: .description, ipAddress: .additionalInfo.ipAddress}'
49     fi
50
51     # Wait a minute and check again
52     sleep 60
53
54 done
```




```
userlist.csv U  spy_workspace.sh X  bulk_invite.sh U  bulk_invite.ps1 U
Scripts > $ spy_workspace.sh
16
17     client_secret="${client_secret}$letter"      # store the letter in pass, use pass+="$letter" for more concise and readable.
18     pass_var="*"                                # in place of password the asterisk (*) will be printed
19 done
20 else
21     client_secret="${CLIENTSECRET}"
22 fi
23
24 # Get a token
25 access_token="Bearer "`curl -s --location 'https://sso.common.cloud.hpe.com/as/token.oauth2' \
26 --header 'Content-Type: application/x-www-form-urlencoded' \
27 --data-urlencode 'grant_type=client_credentials' \
28 --data-urlencode 'client_id=$client_id' \
29 --data-urlencode 'client_secret=$client_secret' | jq .access_token | xargs`
30
31 # Loop until CTRL-C or token expires (2 hours)
32 for (( ; ; ))
33 do
34     d= date -v "-1M" -u +"%Y-%m-%d %H:%M:%S.00Z"
35     echo Last check at \$(UTC): $d
36     echo '-----'
37
38
```

TERMINAL PORTS PROBLEMS OUTPUT DEBUG CONSOLE

o Didiers-MacBook-Pro:Scripts lalll\$ ./spy\_workspace.sh  
Last check at (UTC): 2024-01-18T11:52:57.00Z



Connecting to  Hewlett Packard  
Enterprise  
Sign-in with your HPE account to access HPE GreenLake edge-  
to-cloud Platform

## Sign In

Username

Remember me

**Next**

OR

**Sign in with SSO**

[Need help signing in?](#)

Don't have an account? [Sign up](#)






## Welcome to HPE GreenLake

Here's a list of workspaces we found associated with didier.lalli@hpe.com:

### Workspaces

4 Workspaces

-  HPEDEV -GLCP- Hackshack [Go to Workspace](#)
-  TME HPE [Go to Workspace](#)
-  HPE GreenLake edge-to-cloud platform demo [Go to Workspace](#)



### Getting Started

[Dismiss](#)



#### Find Services

Discover and launch services from our catalog.



#### Manage Workspace

Set up this workspace, users, access and more.

#### Quick Links

- [Manage Workspace](#)
- [Device Inventory](#)
- [Service Subscriptions](#)
- [User Management](#)
- [Locations](#)
- [Switch Workspace](#)
- [Feedback](#)

### Recent Services

☰ [My Services](#)

Compute Ops Management  
Compute

Launch

Aruba Central  
Networking

Launch

Data Services  
Storage

Launch

### Learn

[HPE GreenLake Developer Portal](#)

Integrate apps and services.

[What's New on HPE GreenLake](#)

See the latest release information and announcements.

### Featured Services

[View Catalog](#)

**Recommended (5)**

[Private Cloud \(2\)](#)

[Storage \(5\)](#)

[Networking \(1\)](#)

[Workloads \(4\)](#)

[Management & Governance \(3\)](#)

HPE GreenLake Flex

Private Cloud

OpsRamp

HPE Sustainability



## Manage Workspace

Manage your HPE GreenLake workspace.



**HPEDev -GLCP- Hackshack**

**Workspace ID**

3009de2825f211ec8a84fedebcb4a754

**Workspace Status**

Registered

**Workspace Type**

Standard Enterprise Workspace

[Manage Workspace Type](#)



### Workspace Details

Manage your workspace's details including name, phone number, email, and MFA configuration.



### Identity & Access

Manage users and their access to services and resources.



### Audit Log

View changes and processes within all your applications.



### Authentication

Connect your company's single sign-on (SSO) with HPE GreenLake.



### API

Access application data through an API.



### IP Access Rules

Set up and manage IP access.



### Usage Reporting

Track subscription and system resource usage.



### Locations

Manage device addresses to automate supporting services.





< Manage Workspace



## Workspace Details

Manage your workspace's details including name, phone number, email, and MFA configuration.

Workspace Details

Security

### Workspace Information

Manage your workspace's general information.

#### Workspace Icon

Supported File Types: PNG and JPEG. Max File Size: 1MB

Drag and drop

Select File

SotJzj\_4\_400x400.jpg



HPPEDEV -GLCP- Hackshack

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Cancel

Save Changes



The image shows a VS Code editor window with the following components:

- EXPLORER:** A file tree on the left showing the project structure, including folders like `.vscode`, `Scripts`, and files like `spy_workspace.sh`.
- SCRIPTS:** The main editor area displays the content of `spy_workspace.sh`. The script includes comments, variable assignments for `client_secret` and `pass_var`, a `curl` command to fetch an access token, and a loop that updates the workspace every 2 hours. The loop uses `date` to calculate the next check time and `jq` to parse the JSON response.
- TERMINAL:** The bottom panel shows the execution of the script. It displays the current time, the last check time, and the JSON output of the `curl` command, which includes fields like `createdAt`, `username`, `description`, and `ipAddress`.



# Quick Poll #2



# What's next with the HPE GreenLake platform APIs?

---

- More APIs in existing services
- More APIs for new services
- Eventing (webhooks)



# Resources to get started with HPE GreenLake platform APIs

---

- HPE GreenLake Developer Portal: <https://developer.greenlake.hpe.com>
  - API Reference
  - OpenAPI specs for download
- GLP API Tooling repo: <https://github.com/hpe-dev-incubator/GLP-API-Tooling>
  - Curated Postman collection
  - Sample code described in blog posts
- Blog posts on HPE Developer Community web portal: <https://developer.hpe.com/blog>
- Webinars and replay
  - Munch & Learn: <https://developer.hpe.com/campaign/munch-and-learn>
  - Meetups: <https://developer.hpe.com/campaign/meetups>
- Workshops-on-Demand: <https://developer.hpe.com/hackshack/workshops>
- #hpe-greenlake-api Slack channel on HPE DEV Slack with already 1500+ community members: <https://developer.hpe.com/slack-signup>



# Quick Poll #3



## **Demo 4: Leveraging HPE Developer Community Workshops-on-Demand**

# Demo Steps

---

1. In HPE Developer Community portal show skill up section and browse to workshops-on-demand
2. Open HPE GreenLake category and register for the workshop
3. Show email with WoD link and credentials to connect
4. Open Jupyter Notebook
5. Explain introduction
6. Run the workshop
7. Show conclusion and survey link

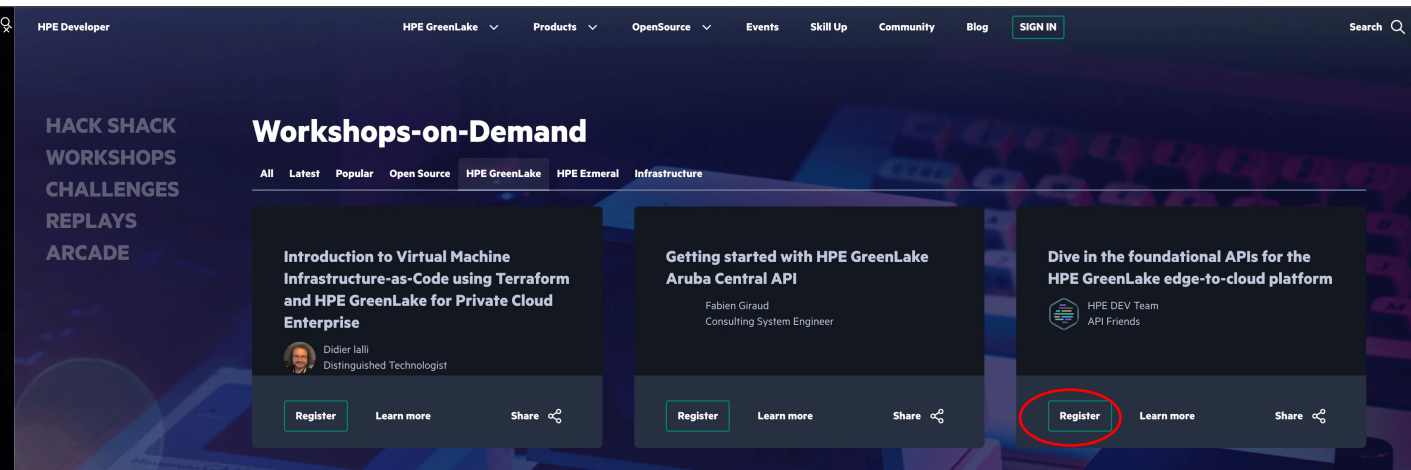
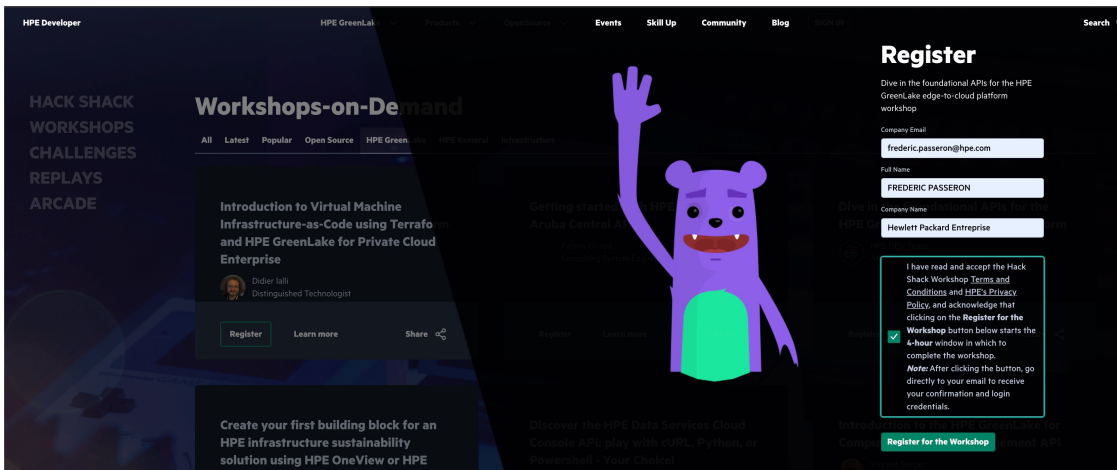
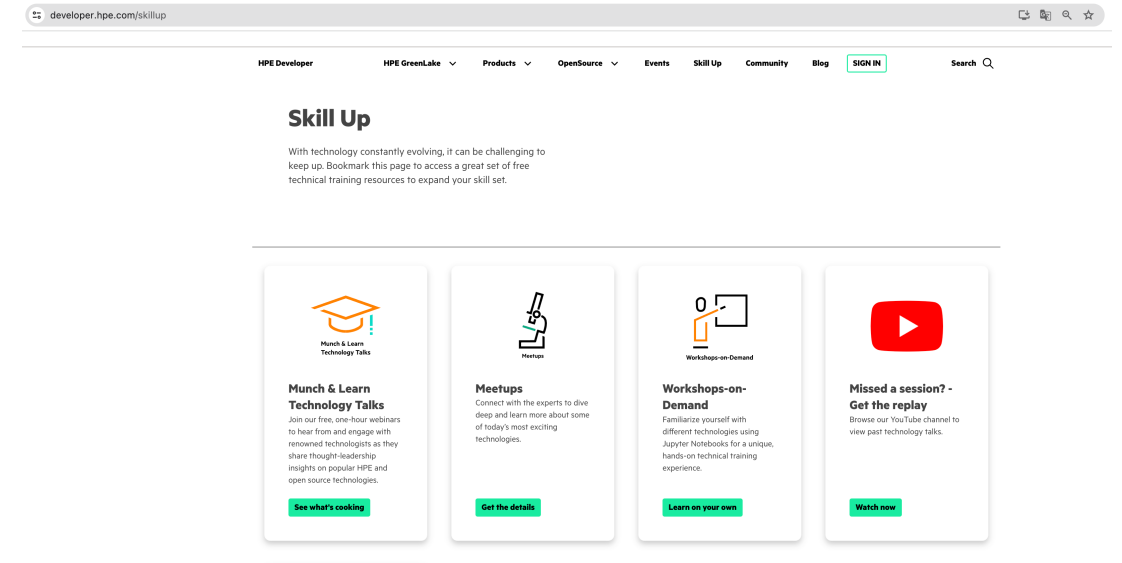




# How to get to the workshop?

Register, receive, and run

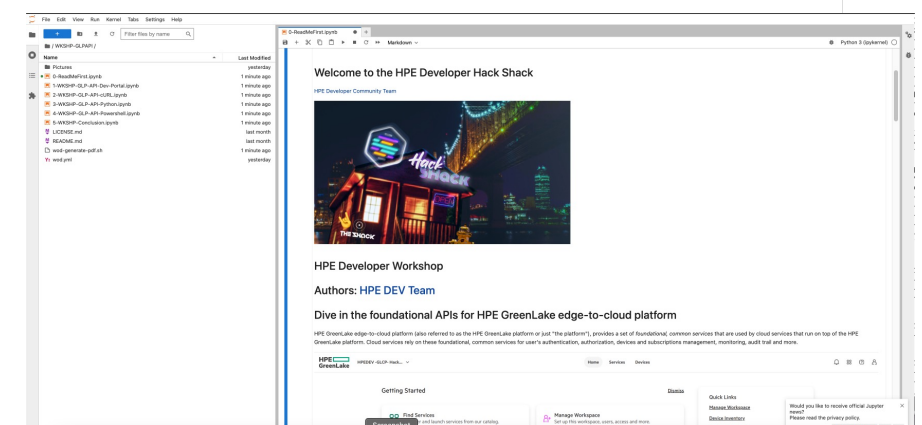
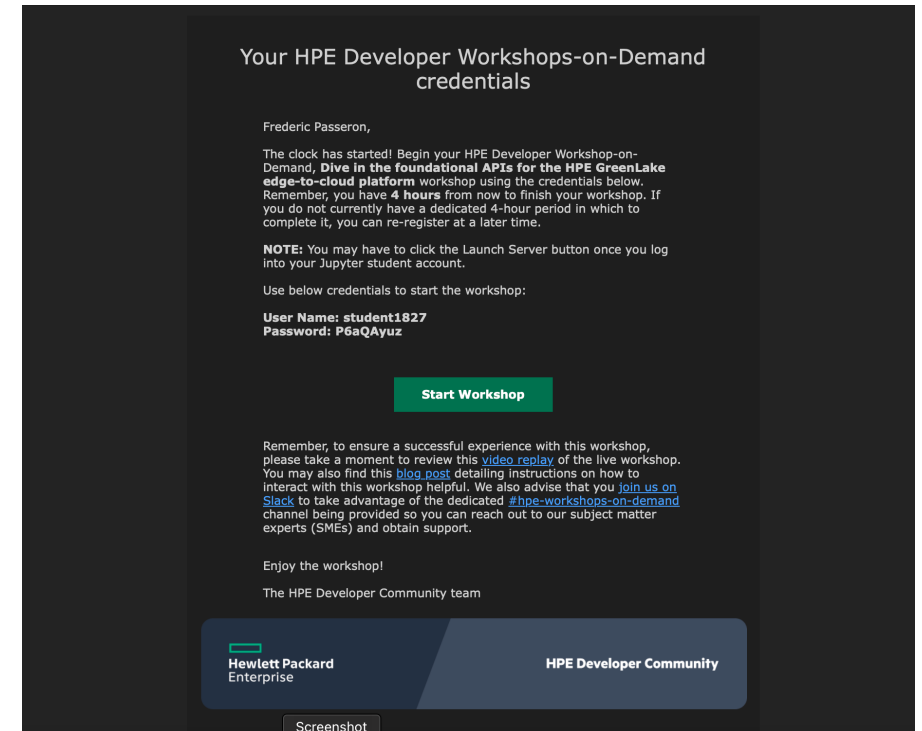
- Browse to the following URL
- On the **Dive in the foundational APIs for the HPE GreenLake edge-to-cloud platform** Workshop tile, click on Register
- Register by entering Company Email, Name, and Company Name in the pop up window



# How to get to the workshop?

Register, receive, and run

- A minute or so later, open up the emails received from HPE DEV Workshops-on-Demand email sender [hpedev.hackshack@hpe.com](mailto:hpedev.hackshack@hpe.com)
  - 1<sup>st</sup> email is a welcome email
  - 2<sup>nd</sup> email provides you with the necessary info to connect to the Jupyter notebooks environment
    - Click on the Start workshop button
    - Enter the credentials on the Jupyter Notebooks Login Window
    - Follow the instructor



# How to run the workshop

Register, receive, and run

← → ↻ 🌐 notebooks.hpdev.io/hub/login?next=%2Fhub%2Fuser%2Fstudent1826%2Ftab%3F



 jupyterhub

Sign in prod1

**Username:**

**Password:**



# How to run the workshop

Register, receive, and run

The screenshot shows a web browser window with the URL `notebooks.hpdev.io/user/student1826/lab?redirects=1`. The interface is a JupyterLab environment. On the left, a file browser shows a directory `/WKSH-GLPAPI/` containing files like `0-ReadMe...`, `1-WKSHP...`, `2-WKSHP...`, `3-WKSHP...`, `4-WKSHP...`, `5-WKSHP...`, `LICENSE.md`, `README.md`, `wod-gener...`, and `wod.yml`. The main area displays the content of `0-ReadMeFirst.ipynb`, which is a Markdown file. It features a green icon of a person pointing at a screen, followed by the text: **Welcome to the HPE Developer Hack Shack**, [HPE Developer Community Team](#), a photograph of a building at night with a sign that says "Hack Shack" and "THE SHACK", and the text **HPE Developer Workshop**. Below this, it lists **Authors: [HPE DEV Team](#)** and **Dive in the foundational APIs for HPE GreenLake edge-to-cloud platform**.

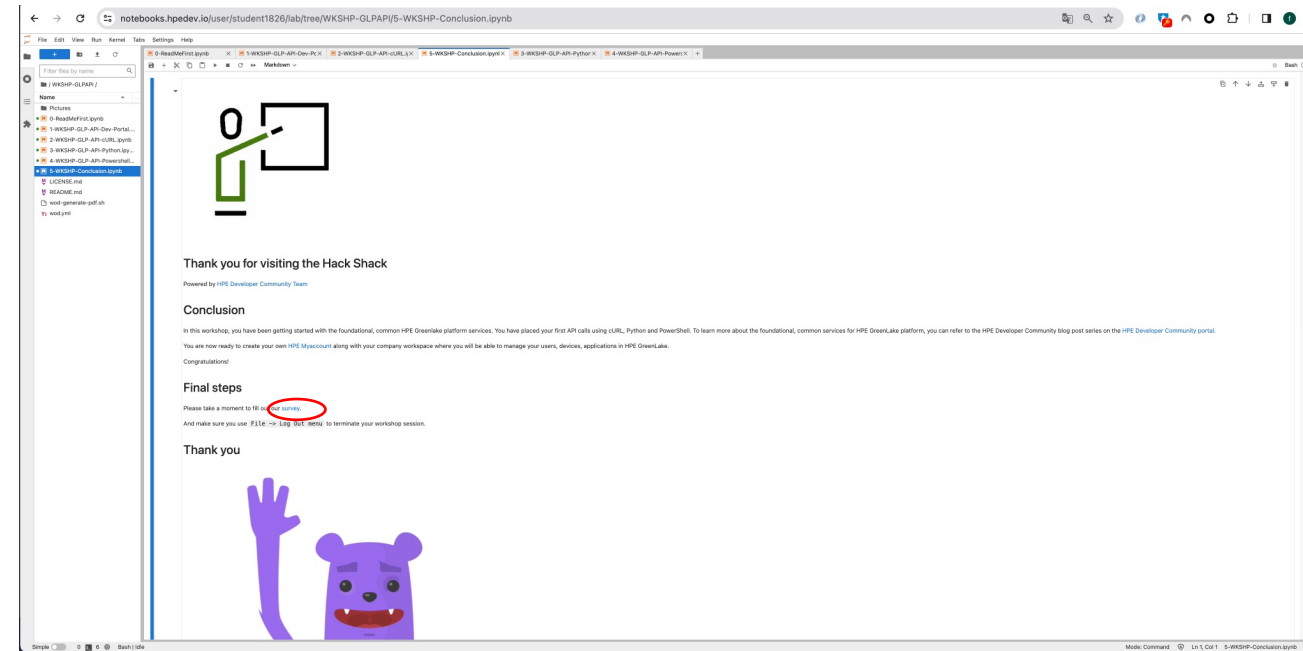




# How to end the workshop?

Register, receive, run, and REPORT 😊

- Fill the survey please!
- In every single workshop the HPE DEV Team produces, one will find in the conclusion notebook a link to our survey.
- It takes only a minute to complete and allows you to provide feedbacks on the workshop itself and subjects you would like to covered in the future.
- Go to HPE Dev Slack for support ([#hpe-workshop-on-demand](#))



# Call to action

Learn, try, contribute & amplify

---

## ✓ Learn

- ✓ [Bookmark HPE GreenLake Developer Portal for API Reference](#)
- ✓ [Read blog posts and bookmark HPE Developer Community web portal](#)
- ✓ [Leverage Workshops-on-Demand](#)
- ✓ Attend HPE Developer Community [Munch & Learn](#) and [Meetups](#)

## ✓ Try

- ✓ [Sign up for a HPE GreenLake account](#)
- ✓ [Request HPE GreenLake platform API access](#)
- ✓ [Download Postman collection and sample code](#)
- ✓ Make API calls against your Workspace
- ✓ Optional: Write your own code

## ✓ Contribute

- ✓ [Join HPE Developer Community](#)
- ✓ [Engage conversation in HPE Developer Community Slack, give us feedback](#)

## ✓ Amplify

- ✓ Talk and demo APIs to customers
- ✓ Invite customers to Learn & Try too





**Hewlett Packard**  
Enterprise

**Thank you**

