

Getting started with HPE GreenLake for Compute Ops Management API

Sebastian Schagerer Principal Cloud Developer Compute Software Group HPE

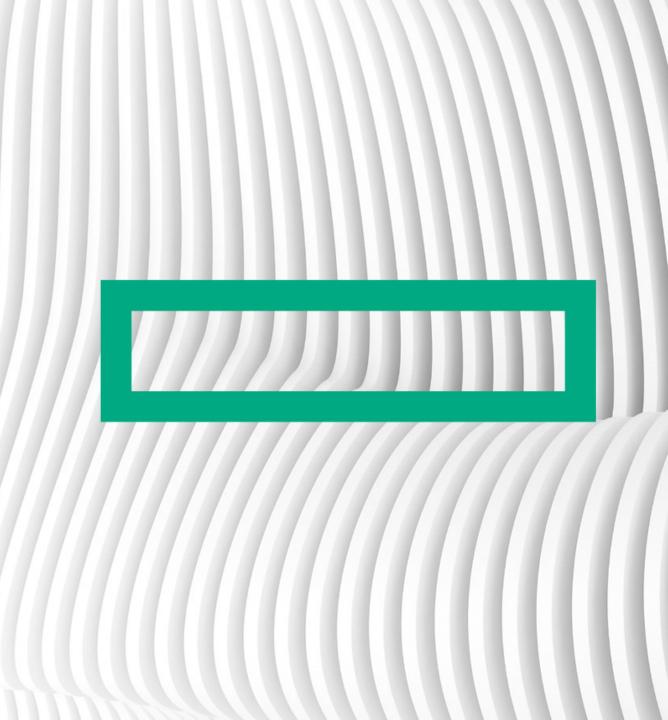
January 31, 2024

Agenda

Getting Started	
API Features	
Compute Ops Management Resources	
Demos	
Q & A	

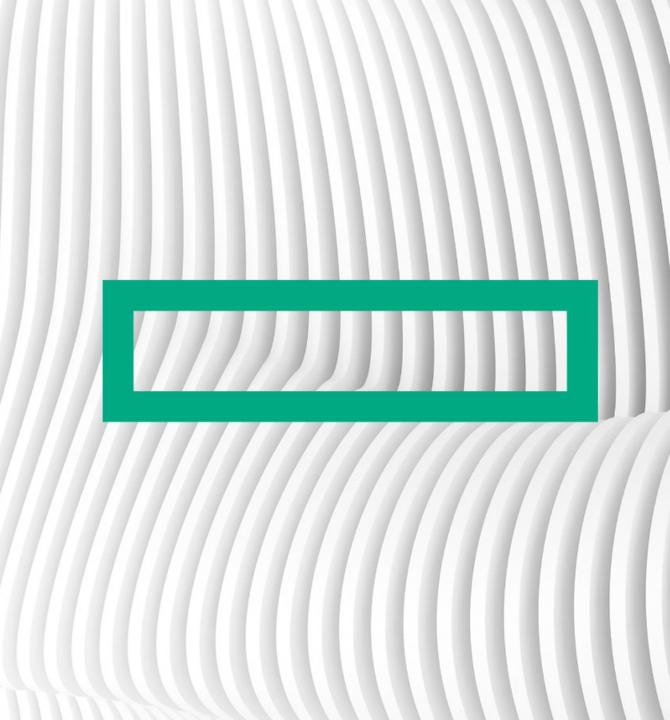
How frequently do you use any of the HPE GreenLake APIs?

- I do not use them
- Sometimes
- Monthly
- Weekly
- Daily



Have you used the HPE GreenLake for Compute Ops Management API?

- I do not have an HPE GreenLake account
- I do not have Compute provisioned
- Yes
- No



Getting started

- HPE GreenLake for Compute Ops Management
 - https://www.hpe.com/us/en/hpe-greenlake-compute-ops-management.html
- HPE GreenLake for Compute Ops Management Getting Started Guide
 - https://www.hpe.com/info/com-gsg
- HPE Developer Portal
 - https://developer.hpe.com/greenlake/hpe-greenlake-for-compute-ops-management/home/
- HPE GreenLake Developer Portal
 - https://developer.greenlake.hpe.com/
- HPE GreenLake for Compute Ops Management API documentation
 - https://developer.greenlake.hpe.com/docs/greenlake/services/compute-ops/public/

An overview of common API features

URI path (incl. version)

Common properties

Query parameters

Pagination

Error responses

- Example:
 - /computeops/v1beta2/groups/915410f3-1e5f43c6-bff9-7a189d112d0c
- Version stages and examples
 - Alpha
 - /compute-ops/v1alpha2/servers
 - Beta
 - /compute-ops/v1beta3/jobs
 - Stable
 - /compute-ops/v1/activities

URI path (incl. version)

Common properties

Query parameters

Pagination

Error responses

• All resources share the following common properties:

- id, type
 - Required
- generation, createdAt, updatedAt
 - Required, except for dynamic resources
- resourceUri, name, tags
 - Optional

URI path (incl. version)

Common properties

Query parameters

Pagination

Error responses

• sort

- Sort a resource collection in ascending or descending order using one or more properties
- name, createdAt asc
- filter
 - Filter a resource collection using a filter expression using a filter grammar that is a subset of OData 4.0
 - See Guide > Filtering for more details and examples!
 - name eq 'Production Group'

URI path (incl. version)

Common properties

Query parameters

Pagination

Error responses

- Resource collections may implement offset-based pagination
- Query parameters
 - offset: Zero based resource offset
 - limit: number of results to be returned
- Resource collection response
 - total: number of items in the result set
 - offset: offset of the returned page
 - count: number of returned items
 - items: array of returned items

URI path (incl. version)

Common properties

Query parameters

Pagination

Error responses

- All API endpoints implement common error responses
- Error Object
 - httpStatusCode: HTTP status
 - errorCode: Unique machine-friendly but readable error identifier
 - message: User-friendly error message
 - debugId: Unique identifier for this error instance
 - errorDetails: Additional detailed information
 - Bad Request, Retry Information, General Metadata

An overview of the resources provided by the API

- Activities
 - Events and tasks
- Groups
 - Manage and organize servers
- Jobs
 - Perform actions on resources
- Schedules
 - Schedule REST operations
- Server settings
 - Configure server settings

- Servers
 - Properties, Health, Inventory
- Webhooks
 - HTTPS webhook for events
- Filters
 - Save a filter for servers
- External services
 - Configure external services
- Firmware bundles
 - HPE published firmware bundles

- Job templates
 - Job definitions
- Metrics configurations
 - Configure metrics collection
- Reports
 - Create and view reports
- User preferences
 - Notification preferences



Servers

Groups & Settings

Jobs & Activities

Schedules

- Server properties, health, inventory
- Sub-resources:
 - Alerts
 - Inventory
 - Notifications
 - Adapter / Switch port mapping
- Servers version:
 - v1beta2

Servers

Groups & Settings

Jobs & Activities

Schedules

- Organization, policies, and settings configuration
- Group Sub-resources:
 - Devices
 - Compliance
- Groups version:
 - v1beta2
- Server settings version:
 - v1beta1

Servers

Groups & Settings

Jobs & Activities

Schedules

- Jobs perform actions on resources
- Activities include events and tasks
- Job Definitions
 - https://developer.greenlake.hpe.com/docs/greenlak
 e/services/compute-ops/jobs/
- Jobs version:
 - v1beta3
- Activities version:
 - v1beta2

Servers

Groups & Settings

Jobs & Activities

Schedules

- Scheduling REST operations
- Schedules sub-resources:
 - History
- Schedules version:
 - v1beta2

Servers

Groups & Settings

Jobs & Activities

Reports

- Register an HTTPS endpoint to receive events
- Event Webhook Guide
- Webhooks sub-resources:
 - Deliveries
- Webhooks version:
 - v1beta1
 - New compute-ops-mgmt API group

Demos

Jobs, Activities, Groups, Server Settings

How many regions does HPE GreenLake for Compute Ops Management support?

- 1
- 2
- 5
- 4
- 5

Any Questions?

Thank you

sebastian.schagerer@hpe.com

