



Hewlett Packard  
Enterprise



Red Hat

# On Premise OpenShift Container Platform

Deployed, maintained, and managed with HPE  
GreenLake

# HPE and Red Hat Alliance

Over twenty years of partnership

**Proven, trusted computing solutions**

**Industry standard technologies**

**Comprehensive portfolio of extensible solutions**



**1,000+ Linux Pro's at HPE**

**98% of all support calls resolved by HPE**

**500+ Red Hat accreditations held by HPE staff**



# HPE Greenlake for Private Cloud Enterprise – Setting the scene...

## Why Private Cloud?

- Cloud like consumption without the costs, egress fees, and public cloud lock in
- Control and sovereignty over the location of data
- Run non-Cloud Native applications in a consolidated fashion
- Common pool of infrastructure, standardised and scalable
- Self service and orchestration, allowing IT resources to focus higher up the stack



# HPE Greenlake for Private Cloud Enterprise – Setting the scene...

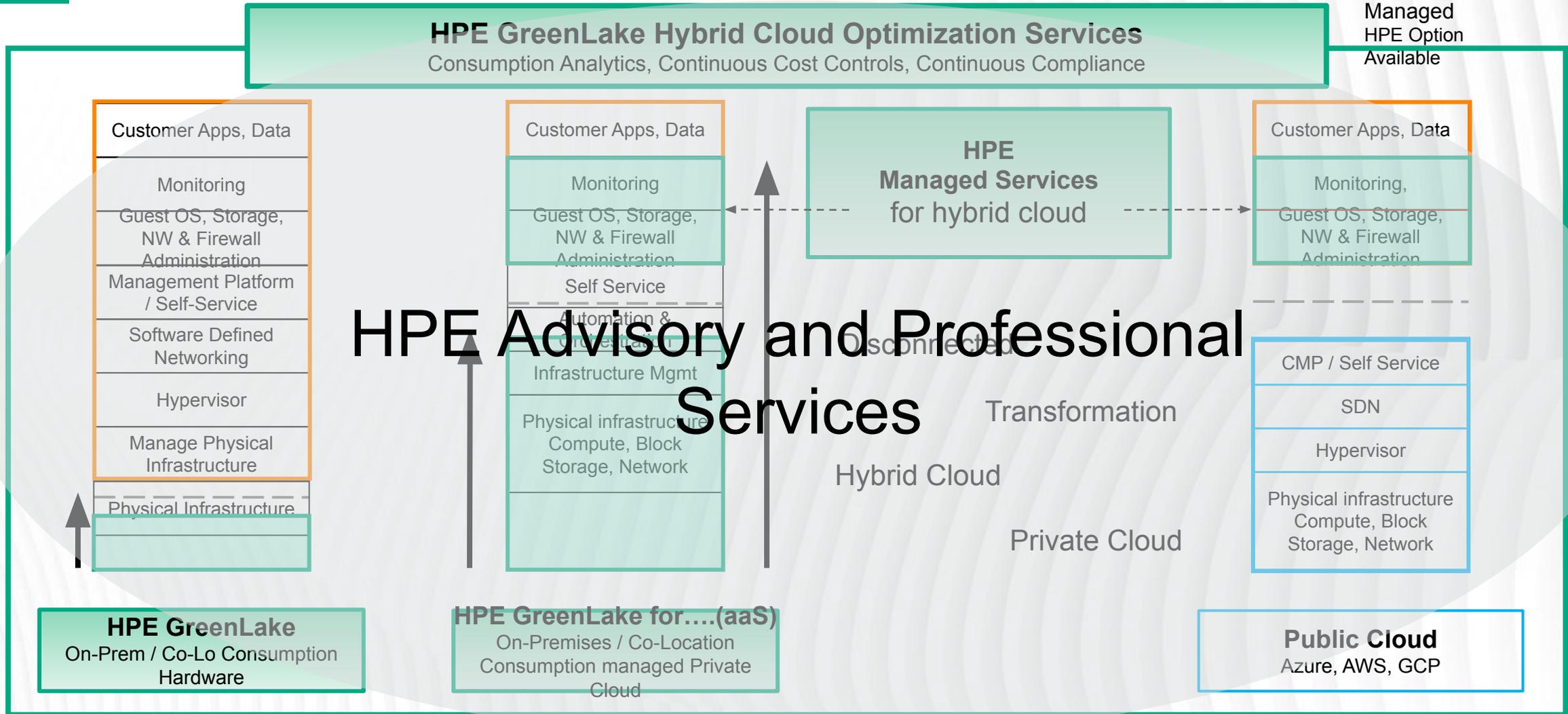
## Who is it for?

- Core value is not in IT Operations
- Relinquish lifecycle (and vulnerability) management admin
- Aiming to reduce complexity
- Wish to preserve capital



# HPE GreenLake Cloud Services

- HPE
- Managed Public Cloud
- Provider Customer
- Managed HPE Option Available



# HPE GreenLake for Private Cloud Enterprise – What is it?

## Delivery & Operations

- Preconfiguration
- Onsite Installation
- Management Services
- Support Services

## Management

- GreenLake Central
- GL PCE Dashboard
- Consumption Analytics

## HPE Factory Built Infrastructure



HPE Private Cloud Hardware

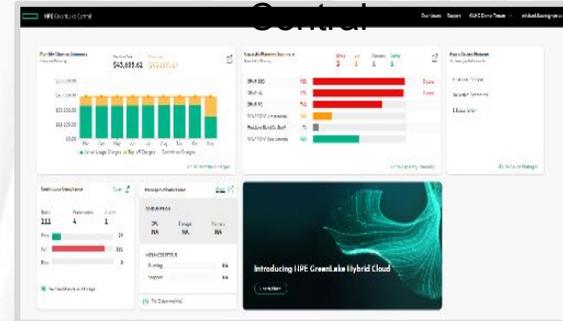
- Compute servers
- Storage Array
- Management cluster
- Network switches

## GreenLake Central

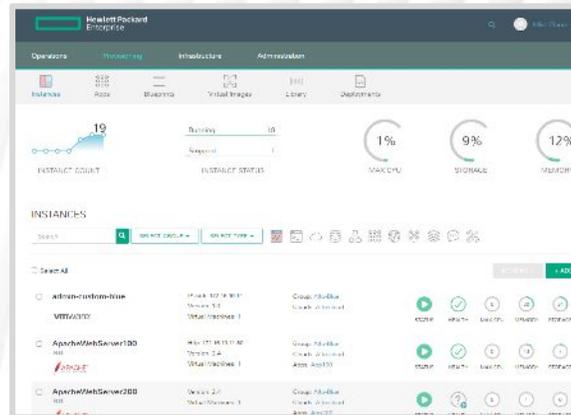
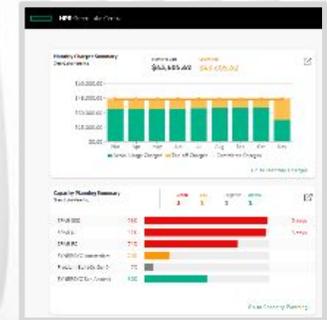


Provisioning Dashboard

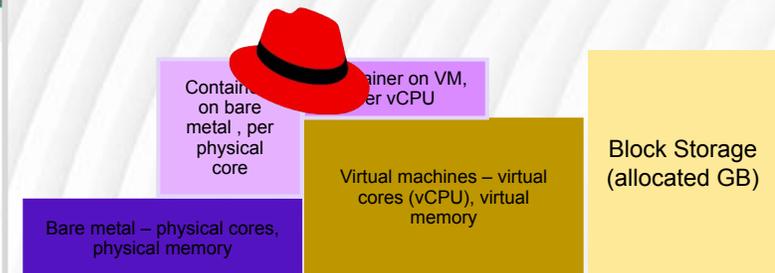
## GreenLake Central



## Consumption Analytics

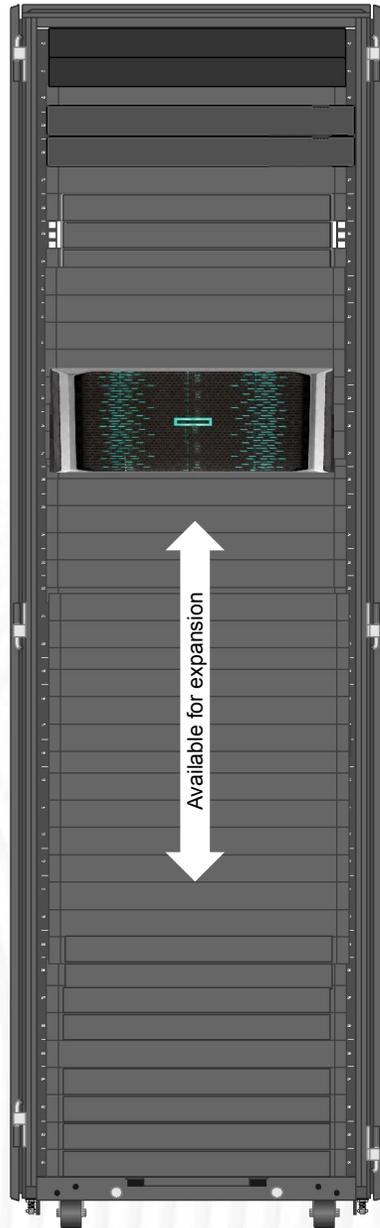


## Consumption Model



## Complete Private Cloud

# HPE GreenLake for Private Cloud Enterprise: Building Blocks



**Production Network Module** (2) HPE Aruba 8325-32Q  
(Leaf/Border)

**Management Network Module** (2) HPE Aruba 6300M

**Control Plane** (3) HPE ProLiant DL325 Gen10+

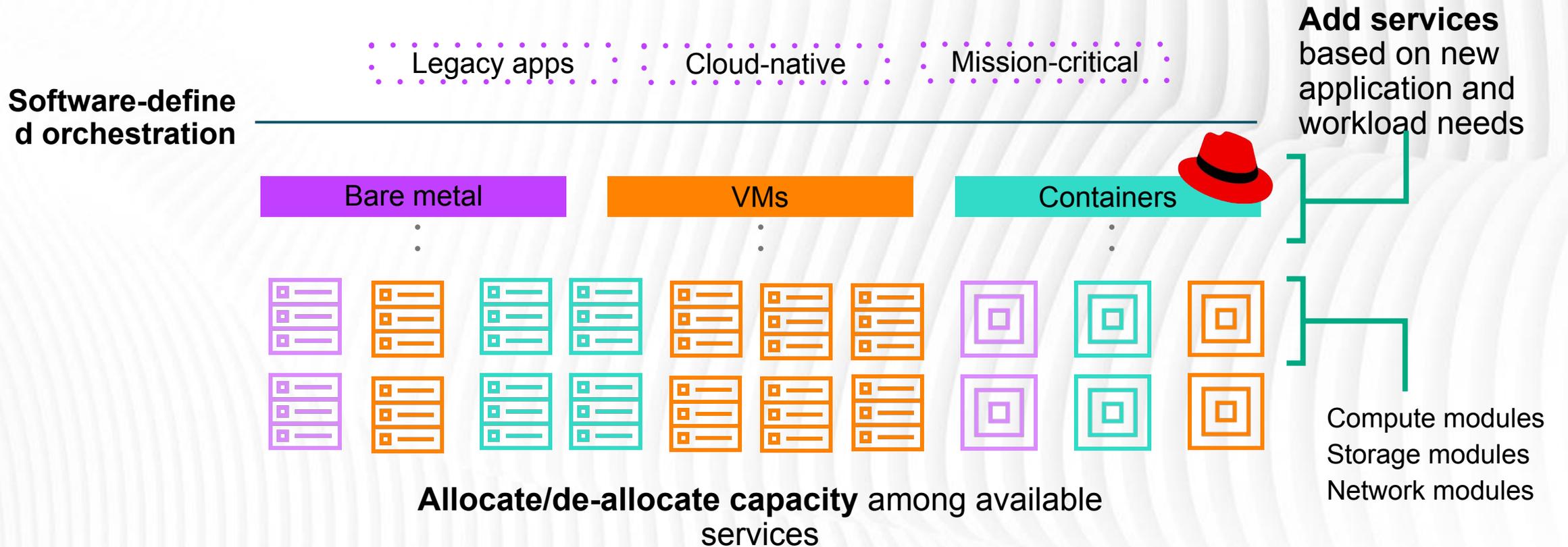
**Storage Module** HPE Alletra 6K

**Workload Compute Modules**

Compute Modules: select  
instance types (minimum 4)

# A common pool of technology with multi-workload support

**Rebalance capacity** as your workload requirements change – always optimizing for requirements and TCO



# Simplify and optimize your move to containers

**HPE GreenLake for Private Cloud Enterprise is a complete as-a-service solution designed to help you:**



Innovate faster and adapt more quickly to change



Increase operational efficiencies



Improve security



Manage and quantify total solution spend



Gain financial transparency that directly associates cost to consumption



Unleash the value of your data



# Automation: Integrations & Infrastructure as Code



IaC framework helps the customer provision and manage resources using automation and DevOps principles

IaC implemented via HashiCorp Terraform

Accessible to HPE GreenLake users and service clients



**Red Hat**  
Ansible Automation Platform

HPE GreenLake integrates with an existing Ansible repository of playbooks

Run Ansible Playbooks on one or all VMs in the inventory group

Run Ansible Playbooks as Tasks or Workflows on VM Instances



Integration of Progress® Chef® Infra® servers for the configuration management of workload VMs

Integration of Puppet Masters for the configuration management of workload VMs

## ServiceNow®

Supports CMDB integration and approval workflow

HPE GreenLake plugin allows service catalog items to be provisioned through ServiceNow® portal

# HPE GreenLake for Private Cloud Enterprise revolutionizes the customer experience



Leader

**Innovation**

“I want to have **flexible IT to rapidly deploy any app** in production to drive revenue and control cost”

- Experience consistent with public cloud
- Flexible, adaptable systems ready for any app, production ready from a trusted partner
- Pre-built, managed so you can focus IT resources on business needs



IT Director

**Control**

“I want to **manage resources and provide developers access** to their isolated servers, VMs or Kubernetes clusters quickly, in a **safe and secure** manner”

- Reduce complexity and enhance standardization
- Reduce time between request to provision and access cloud resources at scale
- Easy instance or cluster management to accelerate access delegation to developers



Developer

**Self-service**

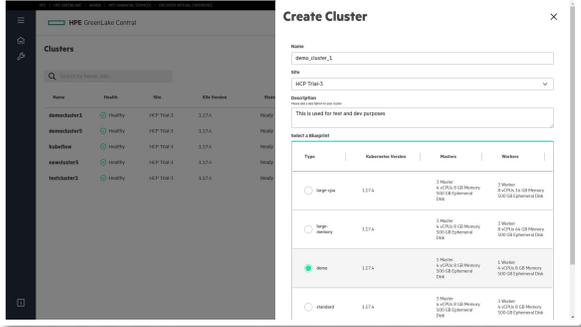
“I want to have **access to my workspace fast** and have **flexibility to choose** from a variety of OS/containerised app stacks”

- **Minimize risks with consistent governance**
- **Ensure consistent deployment and app configuration**
- Reduce manual tasks
- Enable faster and consistent application deployment
- Integrate to Dev/Ops toolchain



# HPE GreenLake for Private Cloud Enterprise revolutionizes the customer experience

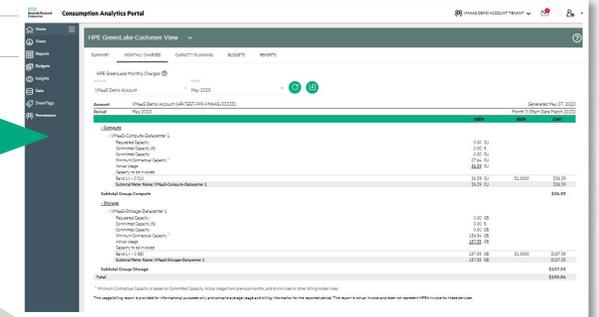
Create and manage RH OCP clusters



IT Director

Creates and maintains Blueprints

View costs and usage of RH OCP resources



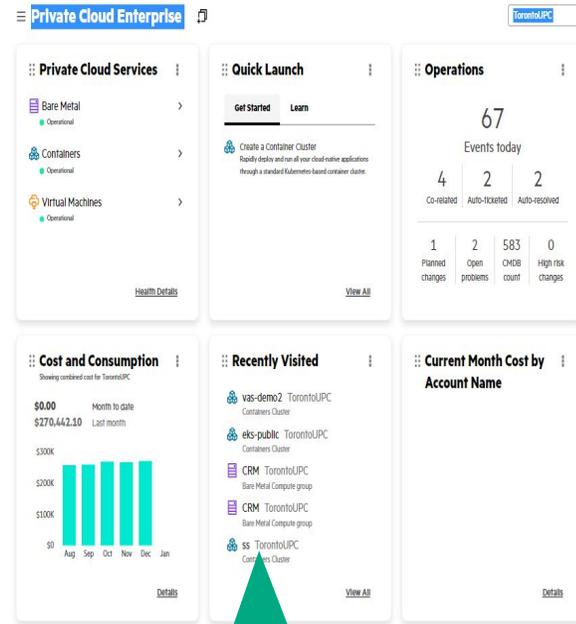
Deploy containerized apps



Developer

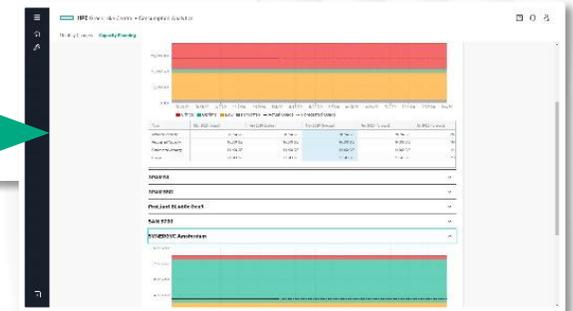


Metered costs and usage



Leader

Forecast capacity of RH OCP resources



# HPE GreenLake for Private Cloud Enterprise: SLAs

Bare-metal instances in a single site

99%

Monthly uptime percentage	Percentage of monthly bill for the affected instance
Less than 99% but equal to or greater than 95%	10%
Less than 95% but equal to or greater than 90%	25%
Less than 90%	100%

VM instances in a single site

99.5%

Monthly uptime percentage	Percentage of monthly bill for the affected instance
Less than 99.5% but equal to or greater than 99%	10%
Less than 99% but equal to or greater than 95%	25%
Less than 90%	100%

Container clusters in a single site

99.9%

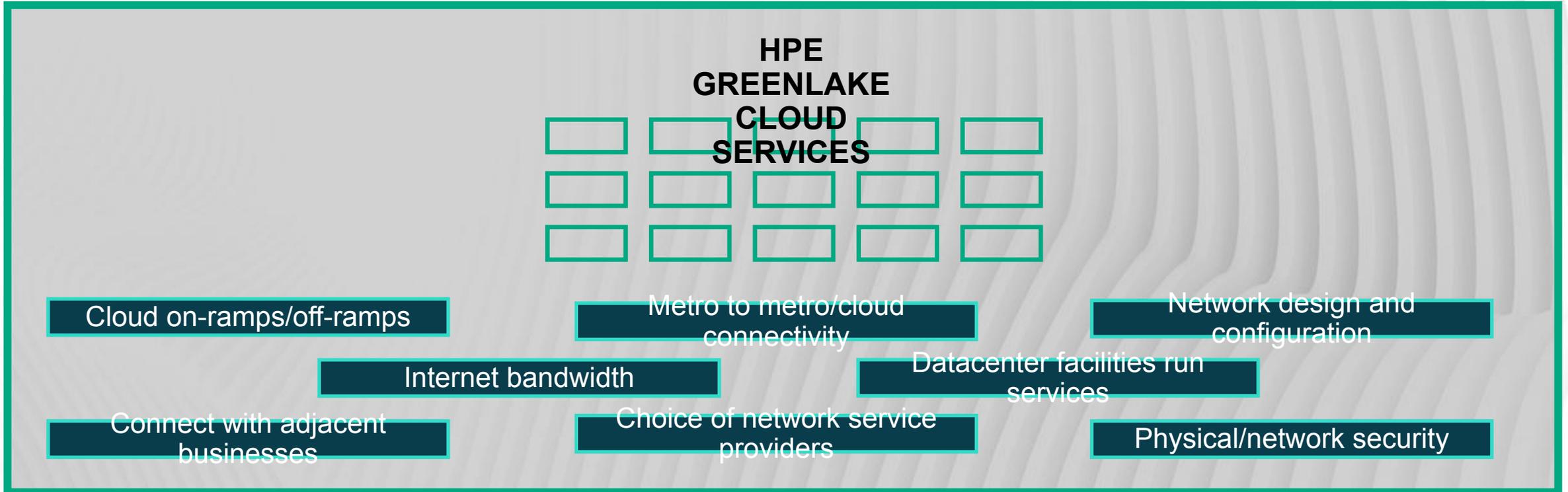
Monthly uptime percentage	Percentage of monthly bill for the affected instance
Less than 99.9% but equal to or greater than 99%	10%
Less than 99% but equal to or greater than 95%	25%
Less than 90%	100%



- Monthly uptime percentage means the number of minutes in a month that the number of minutes that the service is available in a month divided by the total number of minutes in a month. Monthly uptime means the same as availability, but with a monthly time period.
- Availability is the same as uptime, but it means the percentage of time that the service is available.
- Uptime and instance uptime are not affected by individual site failures, as the cloud with the service infrastructure is available to all addresses for TCP/IP protocol, whereas the instance is configured for a lower traffic.
- For more information, see the following links:
  - [HPE GreenLake for Private Cloud Enterprise SLA](#)
  - [HPE GreenLake for Private Cloud Enterprise SLA](#)



# GreenLake for Co-Location



# Trust HPE and Red Hat to deliver the benefits you need to succeed with containers

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## **A complete curated solution**

ISV best practice architectures out of the box, that are fully built, validated and tested by HPE

## **Faster time to value**

Using standardized HPE servers, storage, and network solutions deployed with Red Hat software

## **Simplified IT**

With implementation, support, monitoring, operations and hardware management handled by HPE.

## **Convenient pay-per-use billing**

Based on metered usage; includes units of measure for compute, storage, and Red Hat software

## **Native Tooling**

Ability to use native tooling and existing scripts while also gaining the benefits of the GreenLake Platform

## **Cloud-like flexibility**

Keeping costs under control and your data wherever you want it.



# Resources and next steps

Discover HPE GreenLake by visiting the homepage

Access the resources to find out more about PCE

Get hands-on with the platform with our Test Drives





Hewlett Packard  
Enterprise



Red Hat

Thank you

