

StackHPC/OCF G Cloud 15 - Pricing Overview

Our pricing structure offers a flexible approach tailored to your needs. Choose our base package for the design, deployment, training, and 1 year of support on an Simplified OpenStack Cloud. Add extra nodes, or opt for standalone services such as design & deployment only, or training workshops.

Service	Description	Price	Unit
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BASE PACKAGE

Simplified OpenStack Cloud	Pricing based on 3 dedicated hypervisors. - Design - Control Plane Deployment with converged Ceph - Applications & Operations Training (based on 5 attendees) - One year of level-3 support and upgrades Subject to constraints, as outlined in the service document. All work performed remotely.	£130,000.00	Base package
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OPTIONAL EXTRAS

Additional hypervisor capacity	Additional nodes can be purchased to extend the Simplified OpenStack Cloud, in 3-node increments, to a maximum of 12 nodes in total. Exact numbers must be specified prior to commencement of work.		
Additional Hypervisor Increment (Compute Only)	-Adds 3 physical nodes configured as dedicated hypervisors, increasing compute capacity only.	£2,220.00	3 Node Increment

INDIVIDUAL ELEMENTS

Simplified OpenStack Cloud - Design and Deploy only	Pricing based on 3 dedicated hypervisors. - Design - Control Plane Deployment Support-ready (training, support & upgrades excluded) Subject to constraints, as outlined in the service document. All work performed remotely.	£70,000.00	Design & Deploy package
Training workshops only	1-5 attendees 6-10 attendees 11-15 attendees	£13,480.00 £26,960.00 £40,440.00	Workshop Workshop Workshop
1 year of support & upgrades (first year)	Option to purchase support as a separate item, following initial design and deployment (level-3, first year)	£56,220.00	Per annum
1 year of support & upgrades	Annual renewal of support and upgrades	POA	Per annum

(renewal)			
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ADVANCED

Advanced services	Advanced services, such as Azimuth application portal, Slurm Appliance, shared filesystem as a service (Manila), load balancing for cloud applications (Octavia) or management of container orchestration engines such as Kubernetes (Magnum) may be purchased in addition to the core services.	POA	
Additional hypervisors	> 12 dedicated hypervisors	POA	
Azimuth Cloud Portal		POA	

Constraints

Simplified Specification	Criteria
Predominant server vendor	E.g. Dell
Predominant network switch vendor	E.g. Dell OS10
OpenStack controllers	3
Dedicated hypervisor count	3
Baremetal compute node count	0
Ceph server count	Included in OpenStack Controllers
Network switch count	0
Infrastructure Support	
Infrastructure Design Workshop	✓
Greenfield / not brownfield	✓
Implement custom theme logo and banner message for Horizon	✓
Support for external OIDC identity provider	×
Mappings for users, groups and projects for OIDC authentication	×
Support for external LDAP identity provider	✓
Multi-region OpenStack deployment	×
Configuration of port 443 only for HAProxy	✓
Pilot / Test system	
Separate dev/test/staging environment	×
Hardware test system specified	×
Virtual test system specified	✓
Baremetal for test system seed hypervisor	×
Control plane management services	
Baremetal for Seed Hypervisor	✓
Bifrost service enabled	✓
Enrollment via discovery / not via external inventory	✓
Hardware burn-in phase required	×
Control plane host OS provisioned to SW RAID	×
Physical networking managed by Kayobe	✓
Physical network is EVPN fabric	×
Provisioning to LOM NIC / not bonded NIC pair	✓
Whitelisting for internet package downloads	×
Server BMC IP addressing pre-assigned	✓

Server BIOS firmware upgrade required	×
Server BIOS configuration managed by Kayobe	✓
Release Train software management	✓
Security baseline features	
Security baseline enabled	✓
Ansible lockdown hardening	✓
Wazuh SIEM	✓
Control plane internal & back-end TLS	✓
Firewall rules for internal control plane networks	✓
Encrypted root device support required	×
GPU cloud functionality	
GPUs using PCI Passthrough	×
GPU cloud functionality - VGPU and MIG	×
Nvidia Virtual GPU support	×
HPC cloud functionality	
HPC cloud functionality	×
SRIOV, VF-LAG and ASAP2	×
Ethernet RoCE RDMA networking support	×
Support for Infiniband networking	×
HPC benchmarks for acceptance test	×
High-performance virtualisation configuration - NUMA, hugepages	✓
Storage performance benchmarking	×
Infra for Platform Workloads - Kubernetes, Slurm, etc.	
Magnum service enabled	×
Octavia service enabled with OVN driver	×
Octavia add Amphora driver	×
Barbican service enabled	×
Barbican uses Hashicorp Vault backend	✓
Blazar service enabled	×
Support for reservation of custom resource classes (GPUs)	×
Ceph Storage	
Ceph Storage enabled	✓
Ceph managed by Kayobe CephAdm	✓
Ceph deployed converged with OpenStack controllers	✓

Encryption at rest for Ceph OSD devices	×
Dedicated hardware for Ceph Monitors	×
Dedicated hardware for Ceph OSDs	×
Cinder service enabled	✓
Manila service enabled	×
Multiple Ceph storage tiers	×
Support for non-Ceph Cinder backend	×
Support for Cinder volume encryption	×
Support for non-Ceph Manila backend	×
High-speed network and routing for Manila	×
Monitoring and Alerting	
Alerts to Slack, Mattermost, RocketChat or Matrix Element	✓
Alerts to MS Teams	×
Channel for alerts from Wazuh	✓
Redfish BMC monitoring	✓
Energy monitoring	×
Resource Accounting	
CloudKitty service enabled	×
Custom usage tariffs for CloudKitty	×
IroniC and Bare metal	
IroniC service enabled	×
IroniC uses multi-tenant networking with NGS	×
IroniC compute nodes have multiple physnets	×
IroniC uses trait-driven BIOS reconfiguration	×
Support for baremetal hypervisor conversion	×
Support for node cleaning	×
Support for trait-driven BIOS reconfiguration	×
Support for bonding in multi-tenant Ethernet	×
Support for multi-tenant network isolation	×
Tempest test suite compliance test	×
Setup of project management infrastructure: task backlog	✓
Setup of project management infrastructure: shared channel	✓
Setup of project management infrastructure: documents	✓
DNS and Designate	

Designate service enabled	×
Designate integration with external DNS	E.g BIND9
Designate using BIND9 servers	×
Designate integration with external DNS providers	×
Neutron internal DNS support	✓
CI/CD	
CI/CD via Github or Gitlab	✓
Implementation of Kayobe config CI/CD	E.g Github
Full set of pipelines	✓
Implement Tempest test as CI workflow	×
Implement CI testing using hardware staging system	×
OpenStack-config Ansible repos for post-deploy configuration	×
Definition of compute flavors according to reference design	×
Define and build OS images according to reference design	×
Azimuth Cloud Portal	
Azimuth	×
Azimuth Design Workshop	×
Platform localisations and customisations	×
Development of custom compute platforms	×
StackHPC Slurm Appliance	
Slurm Appliance	×
Slurm with GPU support	×
Training and Workshops	
OpenStack Operations Workshop	✓
OpenStack Applications Workshop	×

Unknowns

Customer minimum competence level

Proof of concept systems and the risk of operator self-injury

“Appliance” level deployment TRL