

DataCentred

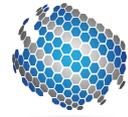
Building an Open Cloud

Matt Jarvis

Head of Cloud Computing

Michigan Park - MediaCityUK

At the heart of the UK's second major content hub

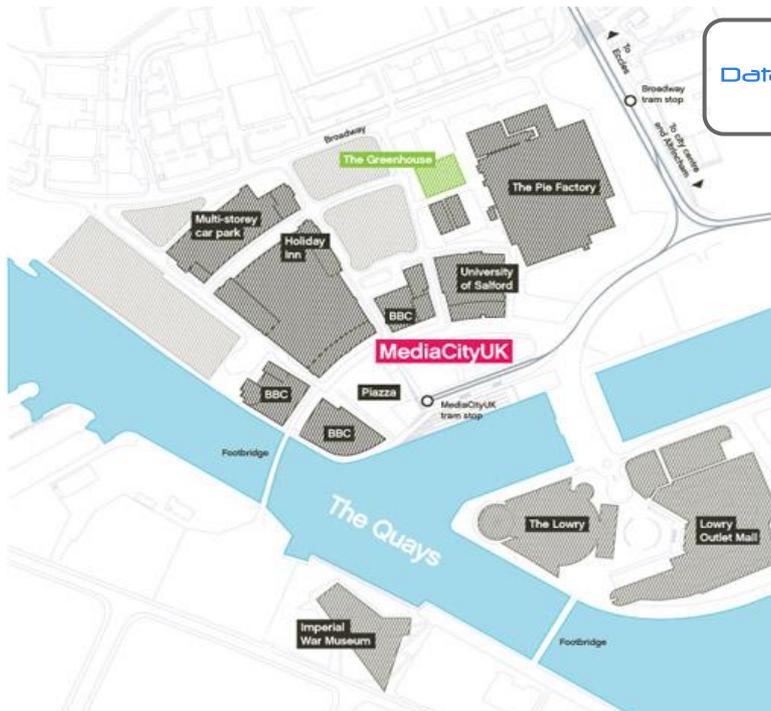


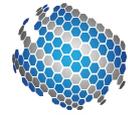
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Fully operational 32,000 sq. ft. carrier-rich facility

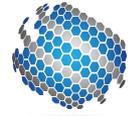
- 850 racks capacity
- 5 carriers with diverse fibre
- Two transformers delivering :
 - 6.6kV – 1250kVA (essential)
 - 6.6kV - 1000kVA (non- essential)
- 2 individual UPS systems
- 2 Standby 1250kVA generators
- 1 double skinned 9,600 litre fuel tank
- 19 x DX supplying computer rooms & plant



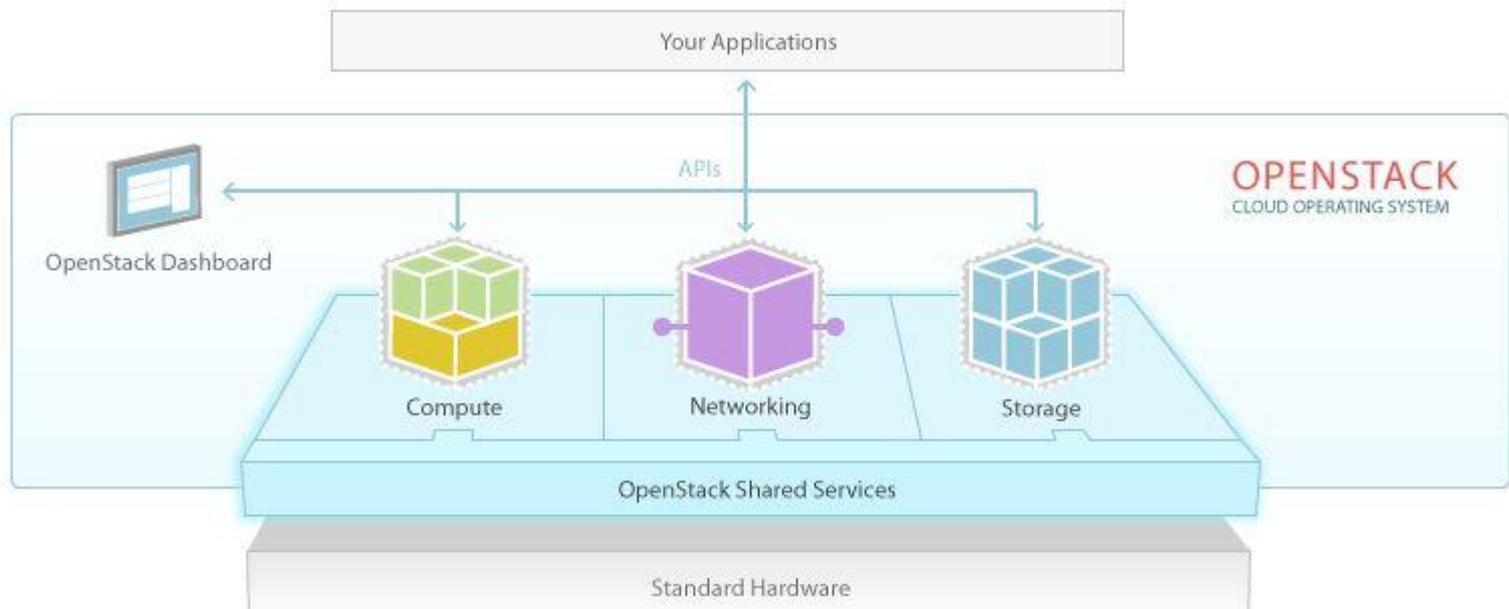


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Why Openstack ?

Open Source, Open Standards

easy to integrate and extend

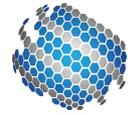
Proven Technology

many large scale public and private clouds already using Openstack

Active Development

75+ technology companies contributing (Rackspace, RedHat, IBM and many more)

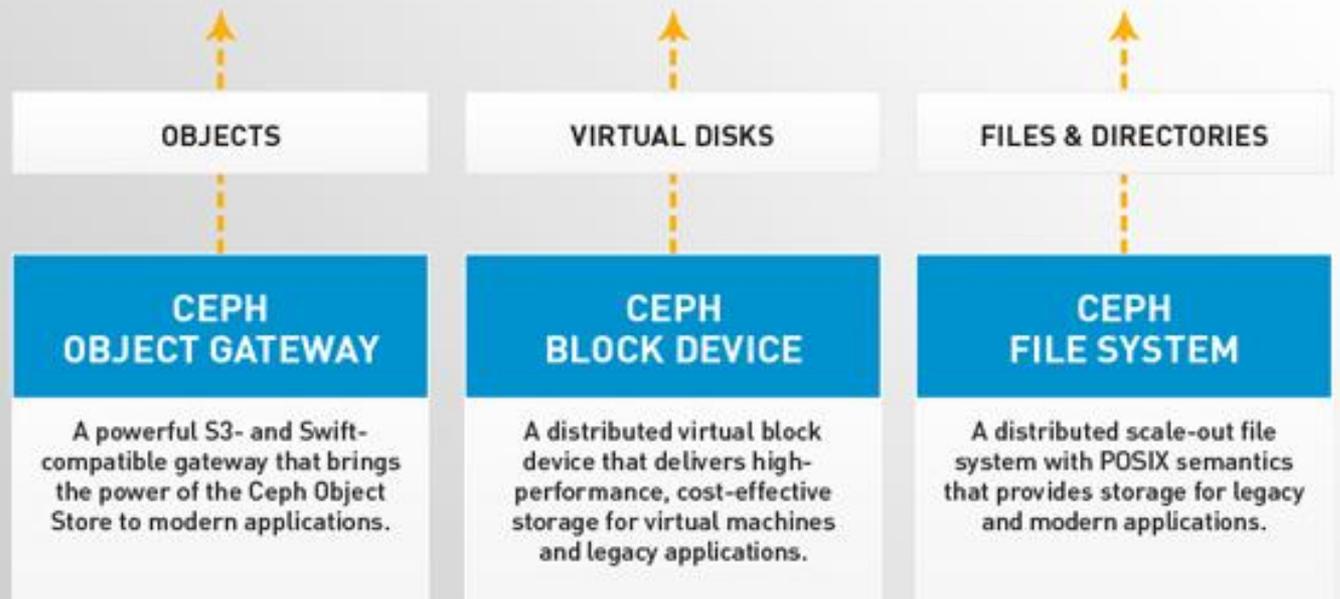
1000+ individual contributors

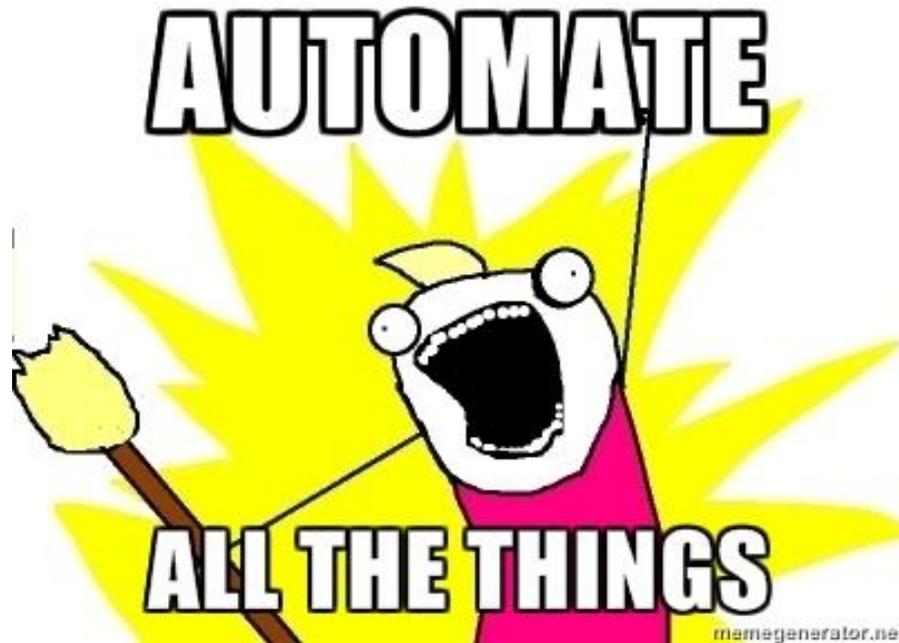


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CEPH Storage Cluster

A reliable, easy-to-manage, next-generation distributed object store that provides storage of unstructured data for applications.

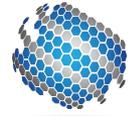




- Provisioning
- Configuration Management
- Orchestration
- Logging and Monitoring



MCOLLECTIVE



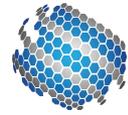
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Infrastructure As Code

aka We're All Developers Now

- **Version Control**
- **Agile Development Process**
- **Lifecycle Management - Dev, Test, Production**
- **Continuous Test and Integration**

Compute Use Cases



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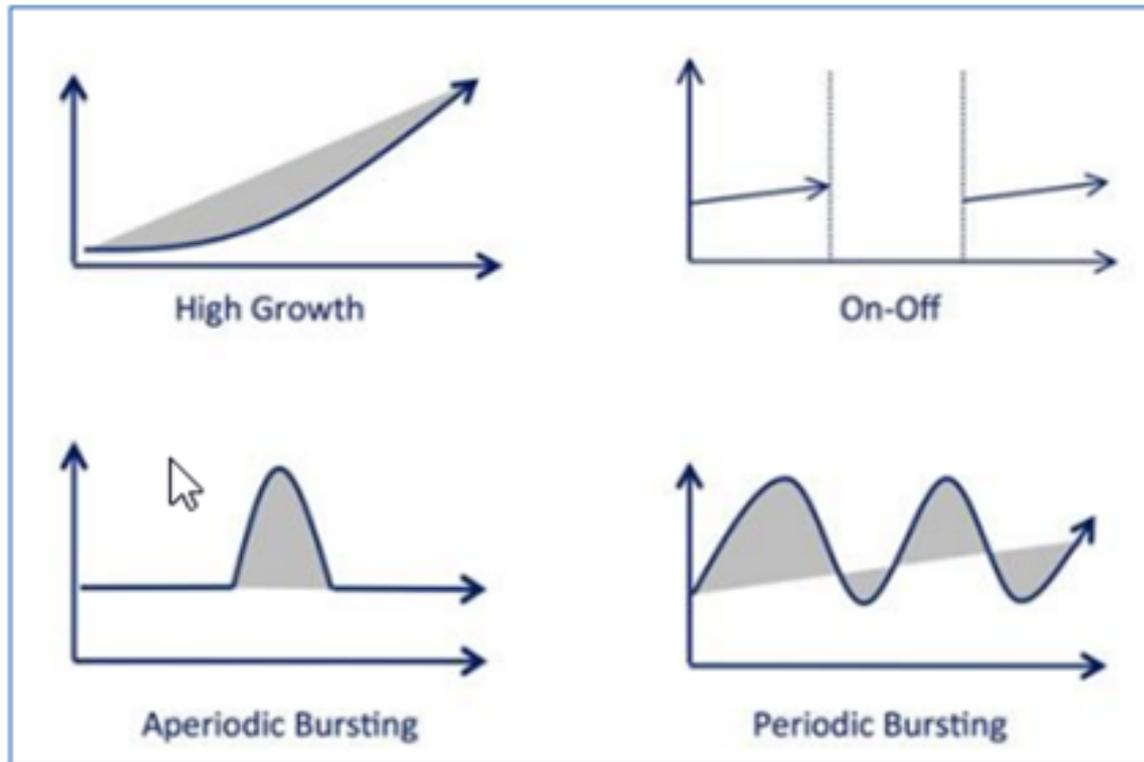
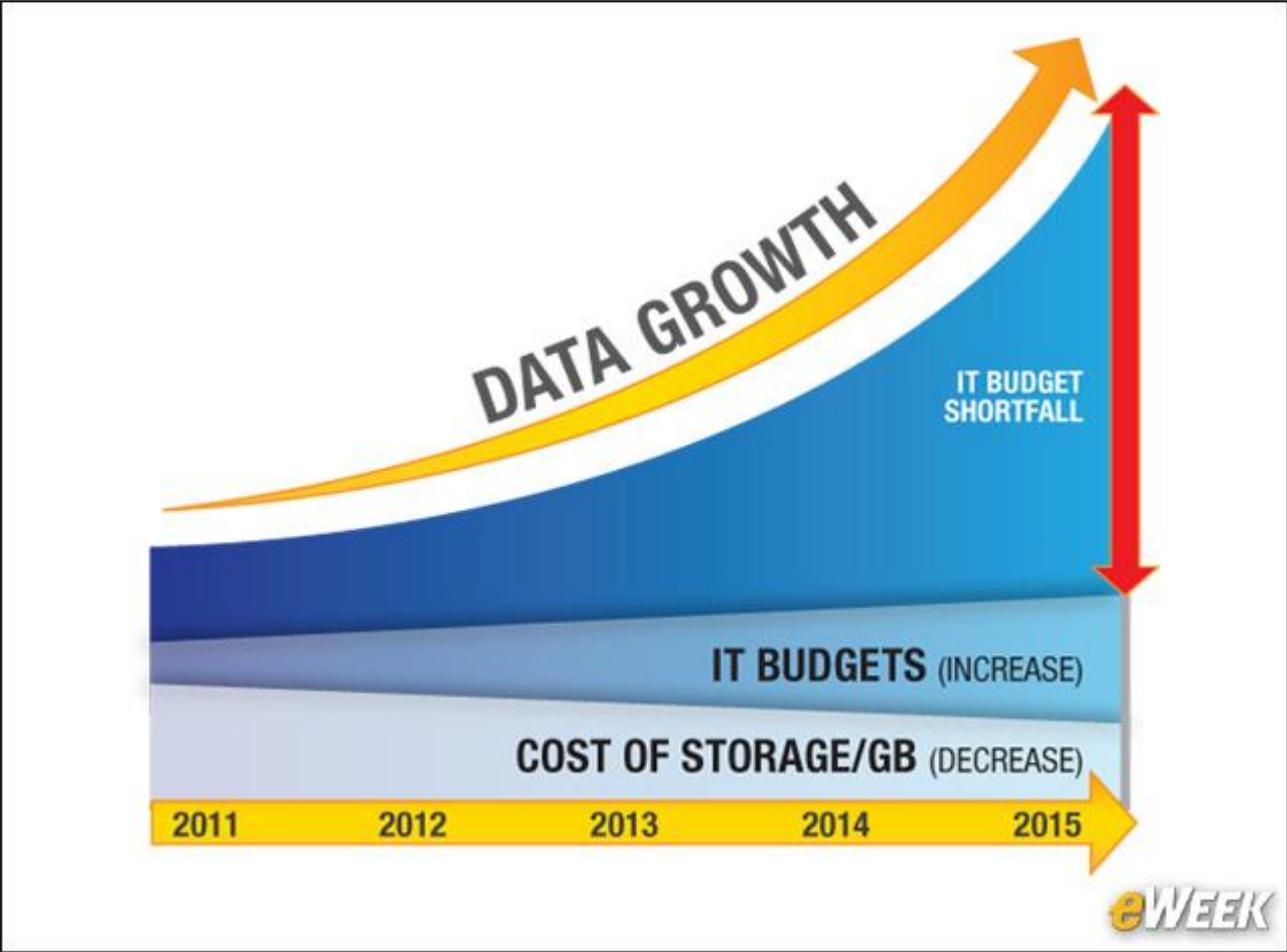
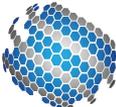
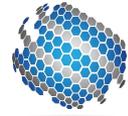


Figure 1 - Cloud Workload Types (Resource: www.cloudbook.net)

The Storage Problem





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Thanks for Listening !