In the Clouds

Irish HE in the Cloud - 2019

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HEAnet - Overview

• Provide network + above net services
• Customers from 1st to 4th Level
• 220k HE students
• 800k Primary/Secondary students
HEAnet – IaaS FW Consumption

- 34 Clients use the framework
- HEAnet carried out sector wide drawdowns
- Very simple adoption process for clients
- Multi-cloud adoption
Dublin City University (DCU) – user story

- Research group
- Aging hardware
- So what to do….
- Fork in the road
  - Buy more kit
  - Go cloud
- DCU IT services played a key role
- In their own words…
Forging Digital Societies

Leveraging GÉANT and HEAnet

Monthly Spend Mar 2017 – Feb 2019

Benefits

• Availability increased
• Happier users
• Seamless transition
Year 1 – Mar 2018 – Feb 2019

- Worried about bill shock
- This did not happen
- In fact the opposite
  - They even had money remaining
  - Brought forward some 2019 projects
  - Increased use of reserved instances
- Customers are happier with the service
Year 2 plan – Mar 2019 – Feb 2019

- Looking at VM optimization
- New services
- Use the extra time available to support users
What happened after Trondheim

- If you were at TNC18 we presented another user story
- So what happened afterwards...
Forging Digital Societies

Leveraging GÉANT and HEAnet – QQI story

Monthly Spend Nov 2016 – May 2018

Benefits

- GÉANT Framework
- Azure Hybrid Benefit - Campus
- Right sizing
- Azure automation tasks
- Monthly cost would be 33% higher
Leveraging GÉANT and HEAnet II

Benefits – phase 2

- Smarter Storage Tiering
- Reserved Instances
- Egress waiver – not to be forgotten
- Needs weeding and feeding
Summary

• Cloud is do-able
• Benefits of cloud are real
• It needs curation
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