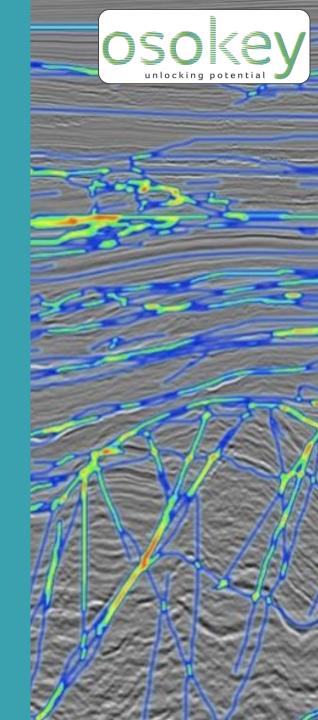
Seismic in the cloud

Joseph Nicholson



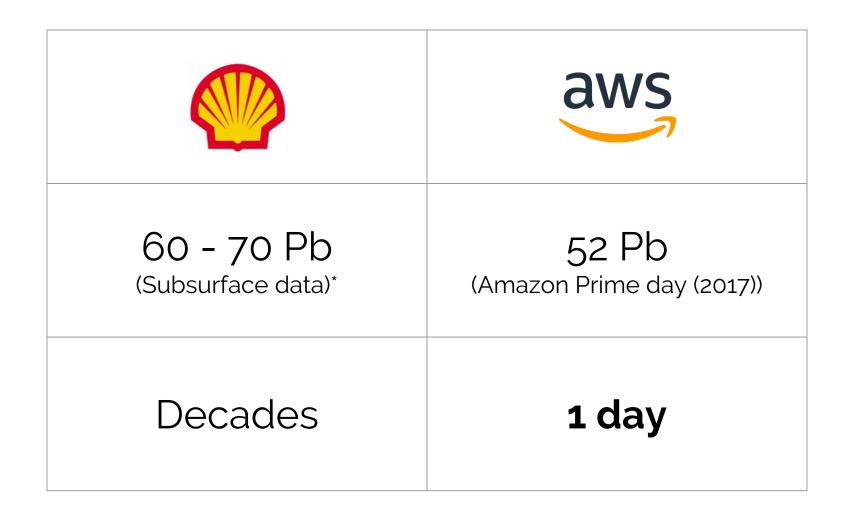




Seismic in the cloud?

- The latest buzzword?
 - IT project
 - Future reality
 - Integration with BAU
 - How will it help me?

Cloud opportunities







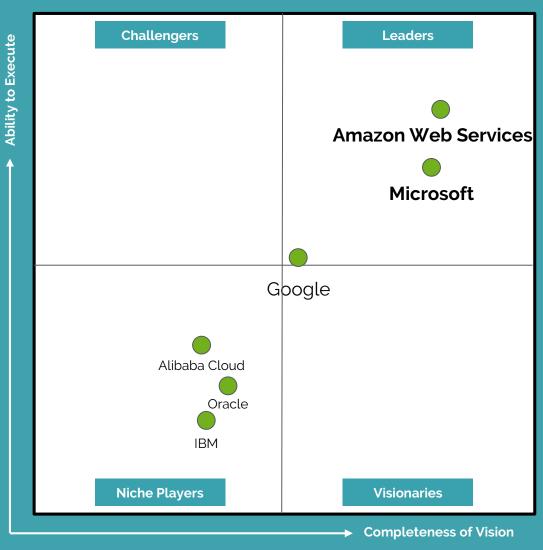
Seismic in the Cloud:

Harness power of cloud technology on seismic data

Deliver rapid data access & enable new ways of working with 2D, 3D and Pre-Stack seismic data

Cloud agnostic solutions

Magic Quadrant for Cloud Infrastructure as a Service (IaaS), Worldwide



Modified from Gartner, 2018

Cloud storage price

Organisation has 1.4 Petabytes of seismic in archive and 40TB (2.8%) online

	Archive	Online
Data volume	1.4 Pb	40 Tb
Cloud price	£0.009/Gb	£0.19/Gb
Total price	£12,807 / annum	£7,665 / annum

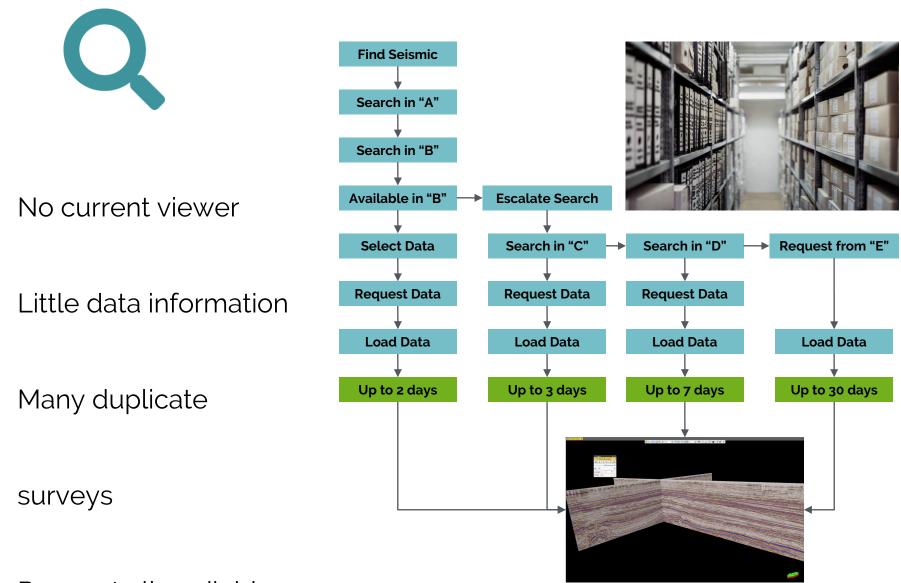
Total Price ~ £20,570 / annum

Improve seismic discovery

• Easily access pre-stack data

Connect cloud data to existing workflow application

Traditional seismic data discovery



Request all available

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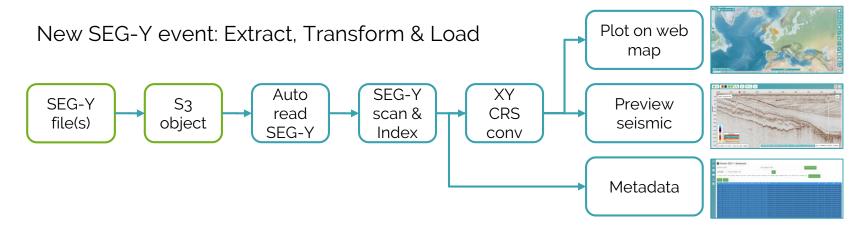
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* Petrel is a mark of Schlumberger.

What can cloud native serverless architecture offer?

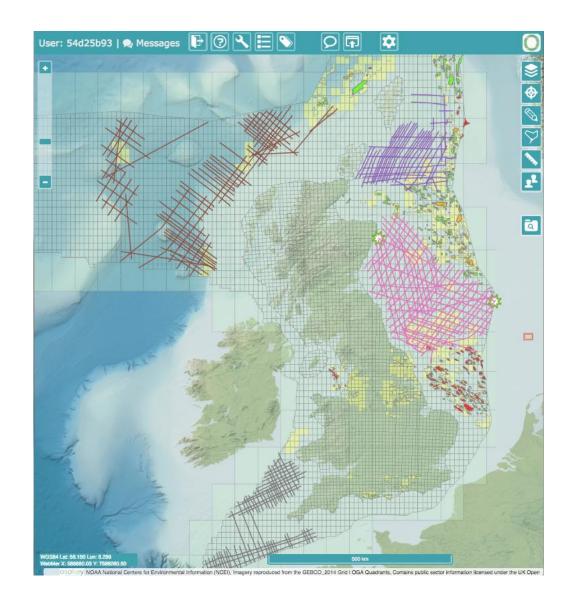
- Flexible and Scalable
- Pay as you use
- Event driven architecture



Data transfer at scale: AWS snowball shipment (~25TB, 600K files, 1,500 SEG-Y)

A single serverless data portal

- Viewable seismic
- Harvested metadata
- Presented spatially
- Integrated other sources
- Focus data requests



Improve seismic discovery

• Easily access pre-stack data

Connect cloud data to existing workflow application

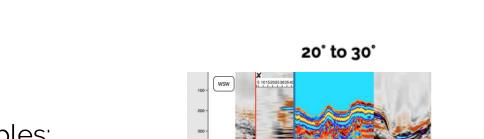
Enhance workflows with pre-stack

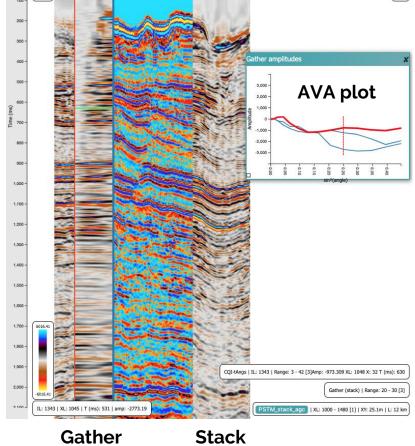
Seismic in the Cloud enables:

- Large pre-stack volumes online
- Viewable gathers

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- Angle stacks calculated on-the-fly
- Analysis of gather behaviour





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all presented via a web browser

Improve seismic discovery

• Easily access pre-stack data

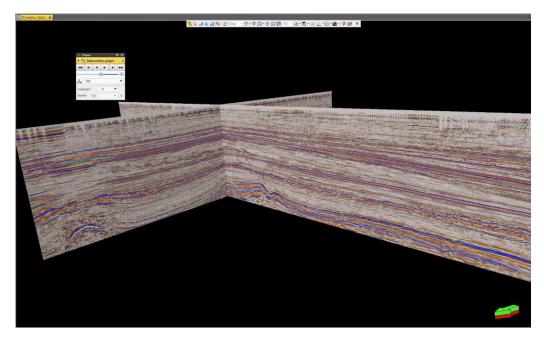
Connect cloud data to existing workflow application

Cloud SEG-Y to existing applications

Maintain business as usual

Seismic stored in the cloud

Connected via Osokey API



* Petrel is a mark of Schlumberger.

Cost effective, accessible data, exciting new ways of working and no impact on BAU

Improve seismic discovery

• Easily access pre-stack data

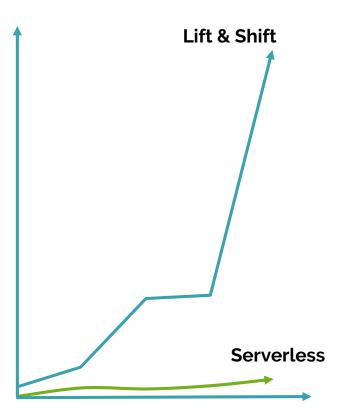
Connect cloud data to existing workflow application

Serverless vs Lift & Shift costs

Osokey technology is serverless

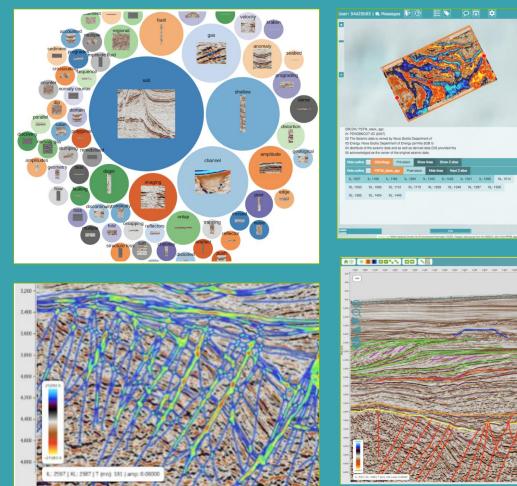
Pay as you use cloud costs and storage costs

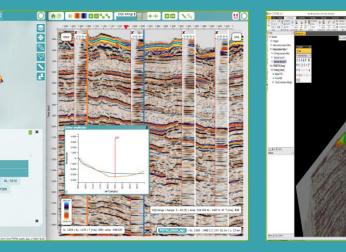
Lift & Shift of existing applications onto cloud workstations is a different cost profile, you can pay for what you are **<u>not</u>** using

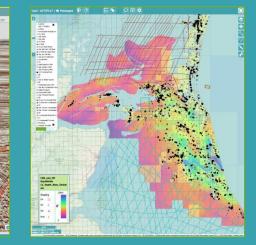


Serverless workflows offer a compelling opportunity









stream.osokey.com



Value = Benefits + BAU - Costs

Scale Scale storage and computation to bigger data sets </> ptimise Use serverless technology to optimise cloud costs Accelerate Automate and parallelise tasks for rapid delivery



- Seismic cloud workflows are ready for your organisation
- Seismic and serverless workflows offer exciting opportunities
 - Familiar applications integrate and perform

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Workflow benefits and business continuity at reduced costs



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