



An SME's journey in migrating to the cloud

simply brilliant thinkers
making software brilliantly simple

Questions?

Introductions

**Box UK specialises in the design,
development and delivery of
user-centred digital systems for
ambitious, disruptive and innovative
organisations worldwide**





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Migrating to the cloud

The background of the slide is a photograph of a bright blue sky filled with large, white, fluffy clouds. Below the horizon line, a calm blue ocean is visible. The overall scene is bright and clear, suggesting a positive and forward-looking theme.

Why move to the cloud?

- Opex v Capex spend
- Ability to change technologies
- Responsiveness
- Efficiencies



Why move Box UK to the cloud?



Cost:

Reducing legacy
physical server
infrastructure



Scalability:

Providing the ability to
scale in minutes rather
than weeks



Planning:

Supporting long-term
plans to increase remote
working capabilities

Weighing up the options



IBM Cloud



Google Cloud Platform



Microsoft
Azure



Alibaba Cloud



DigitalOcean

ORACLE[®]

CLOUD

Weighing up the options



IBM **Cloud**



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DigitalOcean

ORACLE[®]

CLOUD



Our previous setup: 2012~



A photograph of two delivery workers in blue uniforms and caps. They are working together to move a large, stacked cardboard box from the back of a white delivery van. The worker on the right is leaning over the box, while the worker on the left is positioned below it, ready to assist. The van's rear door is open, and the interior of the van is visible in the background. The text "Making the move!" is overlaid in white on the left side of the image.

Making the move!

Methods of migration

- Lift-and-shift
- Migrate to a new platform
- Repurchasing
- Refactor/re-architect
- Retire





GitHub



Jira



Suite



Travis CI

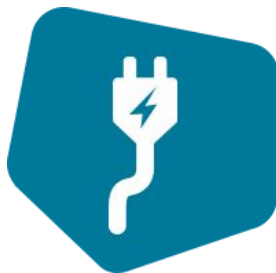
PLAN!

Review your needs...



Training:

Cloud infrastructure is very different to physical - with focus on automation



Managed services:

Are there better managed services out there than rolling your own systems?



Support:

Who is going to provide the support?
What will they cover?
Are you going to self-support?

...and plan appropriately

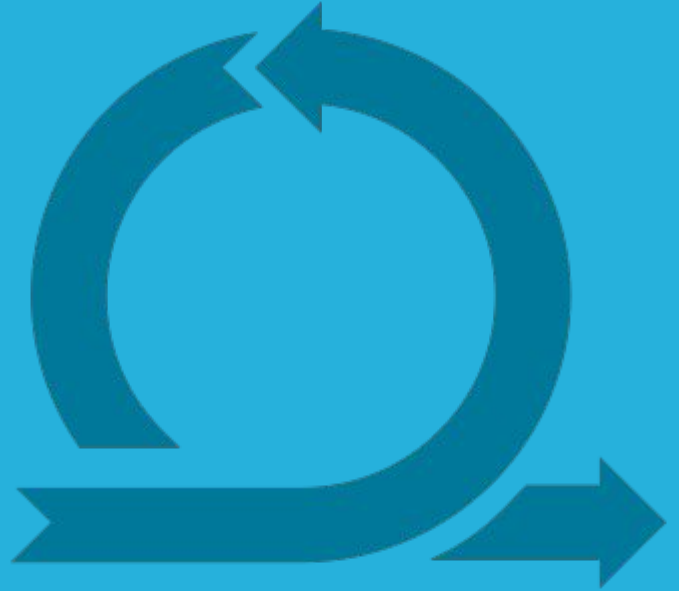
- What's going to be migrated
- What's not going to be migrated - some services aren't suited to the cloud
- How everything is going to be migrated



Change of mindset



**Planning
doesn't stop!**





Our current setup: 2018+



Resilience

+

Scalability



BBC Wales

@BBCWales

Follow

Snow INSIDE the arcades in #Cardiff now. 🤯

The #WalesSnow ride never ends.

Amazing 📷 by Sion Tudur



12:08 PM - 2 Mar 2018

920 Retweets 2,043 Likes





Additional benefits

- Cost savings
- Reliability
- Outsourced hardware/software
- Distributed infrastructure
- Extensive supporting services

Next steps



The next migration!

Longer-term plans

- Enable global availability (remote working)
- Improve disaster recovery/business continuity
- Implement emerging AWS services:
 - Dual VPC tunneling *(done!)*
 - NAT as a service
- Move remaining legacy systems into the cloud (or decommission)



Top tip: plan!

- ✓ **Plan... for failure:** identify any weak points in your cloud setup, and put measures in place to mitigate against these
- ✓ **Plan... for completion:** list everything that needs to be done with deadlines (including turning off old servers and services)
- ✓ **Plan... for the long-term:** while doing things manually may seem quicker upfront, you need to consider beyond this

www.boxuk.com/9-steps-to-migrate-to-the-cloud



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