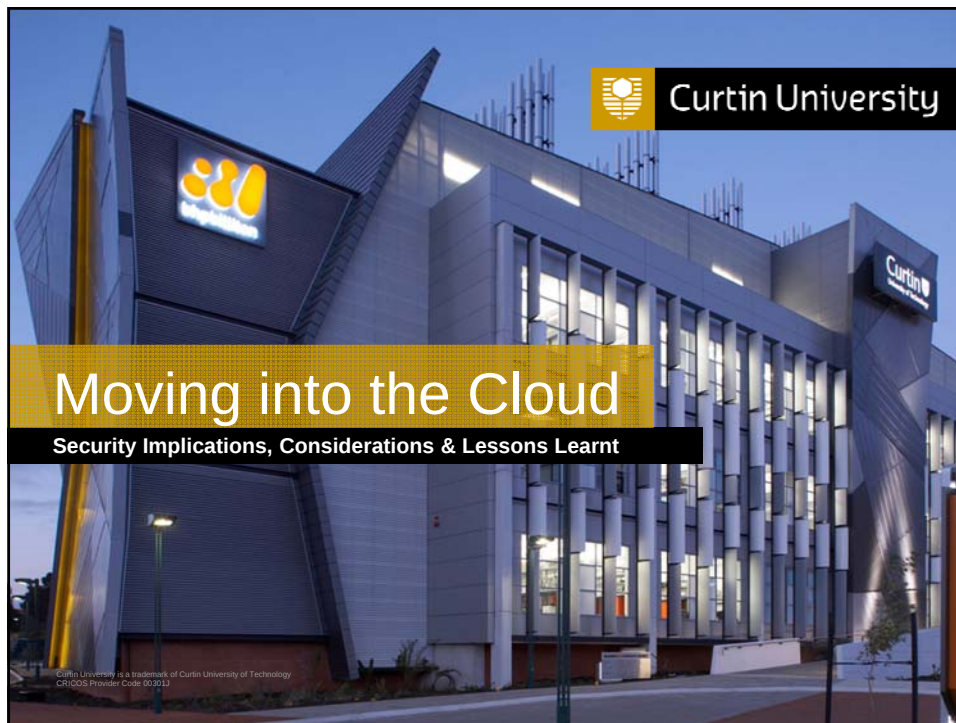




Overview

- Overview
- Cloud @ Curtin
- Implications & Considerations
- Lessons learnt
- Questions & Answers

Moving into the Cloud: Security Implications, Considerations & Lessons Learnt
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16 campuses around the world



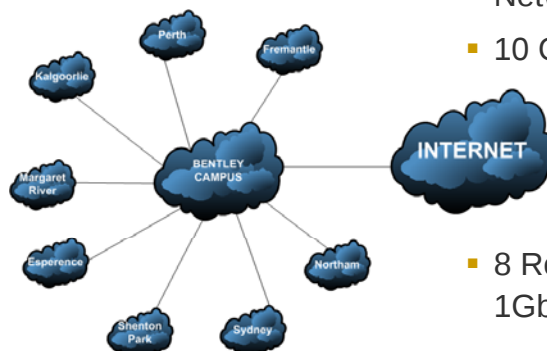
Biggest University in Western Australia

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Curtin University: Statistics

- Over 4,000 full time staff
- Two data centers
- Over 8,000 workstations
- 40 Gbps fibre Campus Area Network
- 10 Gbps Internet link



- 8 Regional links 4Mbps – 1Gbps

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Curtin University: Applications

- Staff Email ~9,000 accounts
- Student Email ~ 45,000 accounts
- Blackboard - learning management system
- Student One – student management system
- Finance One – financial management system
- Alesco – HR information system
- iLecture – automated lecture recording system
- OASIS – Student & Staff Portal

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The Challenge

- Scalability – frequently applications are rolled out to large numbers of users (storage and compute resources)
- Support requirements – increasingly we need to be able to provide greater levels of support, however we don't have 24x7 infrastructure support

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2010

In House

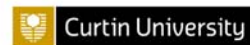
- Staff Email (Exchange)
- Student One
- Finance One
- Alesco
- iLecture
- OASIS
- iPortfolio
- Blackboard

Cloud

- Student Email
- CRM



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2011

In House

- Student One
- Finance One
- Alesco
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Cloud

- Student Email
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2012

In House

- Student One
- Finance One
- Alesco
- iLecture

Cloud

- Student Email 
- CRM 
- Staff Email 
- Blackboard 
- iPortfolio
- OASIS 

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Student Email

Microsoft
Live@edu

Before

- On premises Sun iPlanet
- Over 42,000 student mailboxes
- 20 MB limit
- Internal staff costs

After

- Microsoft hosted Live@Edu
- Over 192,000 students and alumni mailboxes
- 10 GB limit

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Staff Email



Before

- On premises Exchange
- Over 8000 staff mailboxes
- 200 MB limit
- Internal staff costs

After

- Microsoft Office 365
- 25 GB limit
- Message archival
- 99.9 % uptime guarantee

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iPortfolio

at the



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Some of DSD's Security Considerations

- My data or functionality to be moved to the cloud is not business critical
- I will maintain an up to date backup copy of my data
- When I delete my data, the storage media is sanitised before being reused
- Storage media storing sensitive data can be adequately sanitised
- My data is not too sensitive to store or process in the cloud

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My Security Considerations

- Does the cloud solution offer more benefits vs risks compared to the in house solution?
- Does the cloud solution comply with regulatory & legislative requirements?
- Does the cloud solution provide better security controls than in the in house solution?
- Is the business satisfied with the SLA?

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Lessons Learnt

- Cloud is the future
- Traditional security models don't work
- Reduced focus on security of IT infrastructure
- Increased focus on governance and assurance
- Increased demand on audit and compliance resources
- Access to technical expertise

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