CSC8110 Cloud Computing

Coursework Assignment 2014-15

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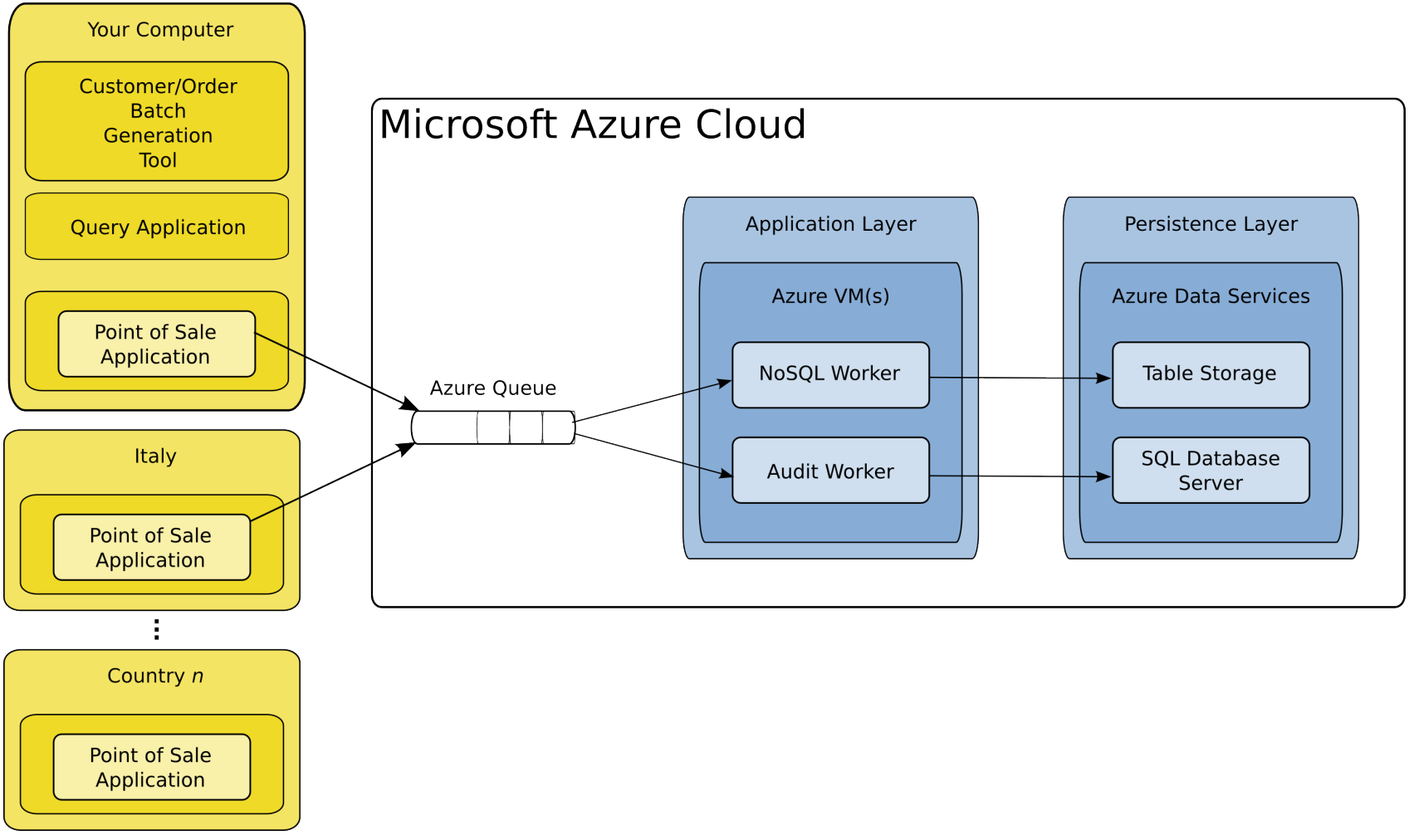
EPSRC Centre for Doctoral Training in Cloud Computing for Big Data
School of Computing Science
Newcastle University, UK

December 2, 2014

Outline


Your Computer
Customer/Order Batch Generation Tool
Query Application
Point of Sale Application
Italy
Point of Sale Application
Country n
Point of Sale Application
Microsoft Azure Cloud
Azure Queue
Application Layer
Azure VM(s)
NoSQL Worker
Audit Worker
Persistence Layer
Azure Data Services
Table Storage
SQL Database Server

150-day Student Passes for Microsoft Azure

- Compute
  - 2 Cores (Cloud Services/Virtual Machines)
  - 10 Shared Web Sites
  - 10 Shared Mobile Services
- Data Services
  - Two 1 GB Web Edition SQL Databases
  - 70 GB of Storage
  - 50,000,000 storage transactions
- App Services
  - 500,000 Service Bus Messages
  - 1,500 Service Bus Relay Hours
- Network Services
  - 24 GB Bandwidth Data Transfers (12 GB in, 12 GB out)

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Programming languages and tools

- We encourage you to make your own decision over the choice of programming languages and tools.
  - Is there an Azure SDK available for the programming language?
    - **Java**, .Net, Node.js, PHP, Python, Ruby, etc ...
  - Which technologies are you most familiar and comfortable with using?
  - Will the demonstrators have experience using these technologies to be able to help you?
  - Have these technologies been used on Azure before?
- If in doubt, check with a demonstrator!

Coursework Materials

- All course materials are stored in a Github Repository
  - `http://github.com/NewcastleComputingScience/csc8110`
- Check back regularly for additional content.
  - Frequently Asked Questions (FAQs)
  - Additional Resources

Practical Sessions

Date	Time
Tuesday 2nd December	3-5pm
Friday 5th December	9-11am
Tuesday 9th December	3-5pm
Wednesday 10th December	9-11am
Friday 12th December	9-11am and 1-3pm

Demonstrators: Matthew Forshaw, Hugo Firth, Tudor Miu, Sami Alajrami, Francisco Rocha

Deadlines

- Completed assignments including all source code and your written report must be submitted electronically through NESS.
- **Friday 12th December 2014** at **5pm**
- This assignment is worth **30%** of your final mark for this module.

Any questions?

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