Cloud Deployment Strategy Group 8 CS217

We would use a public cloud – namely Amazon Web Services (AWS). Given that Scotbank is a small family-owned company, it lacks the capital/resources to create its own private cloud. AWS offers pay-as-you-go, so therefore Scotbank would only pay for what’s used – a clear advantage over private cloud infrastructure. AWS also provides greater reliability due to global data centres – if one fails the other centres should be able to take over and redistribute the load of data. It would cost a lot to make several private data centres, so this is a clear advantage of public cloud computing especially for a small business.

We have decided to use the partial migration method to move to the cloud. As previously stated, Scotbank does not have the budget to overspend on cloud-based computing. Some examples of resources we would use from AWS are:

* Instead of manual database management, we would use the ‘Relational Database service’ provided by AWS which supplies automated backups and better reliability.
* AWS provides Identity and Access Management (IAM). We would use this to manage access permissions and roles for users, e.g. ensuring users cannot access the manager view.
* AWS also provides data encryption Key Management Service to keep user’s personal data safe and secure – especially when dealing with sensitive information and bank details.

To bridge learning gaps, we would use the free online 1-day courses on using the cloud provided by AWS and encourage employees to partake in these. The two main courses we would encourage - AWS Cloud Practitioner Essentials and AWS Technical Essentials – run several times a day across different time zones, so participants can choose a class which suits them. This also means if participants need to refresh their knowledge or are still struggling, they will be able to repeat classes. AWS also provide several other free courses, so those who have an interest in the subject or feel they want to learn more can access them.