Technology Ireland ICT Skillnet

itb Institute of Technology Blanchardstown
Institiúid Teicneolaíochta Baile Bhlainséir

Securing the Cloud

You don't need to be a Security Expert to protect your company in the Cloud ....but you do need to know what you're doing...

Cloud services now provide low-cost virtual alternatives that once required expensive local ownership of hardware and software systems. And it becomes more important every day, as we add more data, options and look for the high quality performance we need. We put almost everything in the cloud, but how much do we really know about its security? How do we protect ourselves and our companies from being compromised? And, crucially, do we know what to do and how to recover from a security breach?

Very few people really consider the security of where they put their data or make plans for the recovery and continuity of business if that data is compromised. According to a recent report, only half of those surveyed said that they examine the cloud security features of the services they use. And even more striking over 50% of those surveyed had no Disaster Recovery or Continuity plan for handling a data breach.

Certified Training Programme:
Cloud Security & Business Continuity Management

The purpose of this online and practical training programme is to gain an awareness of the security threats and best practices for securing the cloud. The concept of cloud computing continues to evolve, this module provides students with the latest information on new areas of focus in the changing Cloud security landscape. Students will also learn how to perform effective business continuity and disaster recovery planning for a business. Amazon AWS will be used as a case study to demonstrate the important role the Cloud will have in the future of business continuity and disaster recovery.

INDICATIVE CONTENT

Cloud Architecture

Definition of Cloud Computing (Essential Characteristics, Cloud Service Models, Cloud Deployment Models), Multi-Tenancy, CSA Cloud Reference Model, Jericho Cloud Cube Model, Cloud Security Reference Model, Cloud Service Brokers, Service Level Agreements

Governance and Enterprise Risk Management

Contractual Security Requirements, Enterprise and Information Risk Management, Third Party Management Recommendations, Supply chain examination, Use of Cost Savings for Cloud

Legal Issues: Contracts and Electronic Discovery

Consideration of cloud-related issues in three dimensions, eDiscovery considerations, Jurisdictions and data locations, Liability for activities of subcontractors, Due diligence responsibility, Federal Rules of Civil Procedure and electronically stored information.

Compliance and Audit Management

Definition of Compliance, Right to audit, Compliance impact on cloud contracts Audit scope and compliance scope, Compliance analysis requirements, Auditor requirements

Traditional Security, Business Continuity, and Disaster Recovery

Four D's of perimeter security, Cloud backup and disaster recovery services, Customer due diligence related to BCM/DR, Business Continuity Management/Disaster Recovery due diligence, Restoration Plan, Physical location of cloud provider

Continuity and Recovery planning

Information backup and storage. Off-site storage, storage consolidation, tape backup, RAID technologies. Mirroring and remote mirroring. Data recovery from backups. Centralized system recovery, decentralized system recovery, end-user recovery. Recovery plan testing.

BCDR in the Cloud

Case study of AWS to demonstrate the important role the Cloud will play in the future of BCDR. Practical exercises with different backup solutions.

How You Will Learn?

The course is delivered online over 12 weeks. Lectures are delivered one evening per week (streamed live from ITB) and are recorded for playback. The lecture usually takes 3 hours and you should also allow another 3 hours for project work each week though this will vary per student. At the end of the course you will sit an exam which accounts for 50% of the award and during the course you will do two projects: (1) Assessing and Implementing Security in the Cloud and (2) A Business Continuity and Disaster Recovery Plan (both of which account for the remaining 50% of the award).

What Award Will You Receive

The course is worth 10 ECTS credits at Level 8 on the NFQ. On successful completion you will be awarded a ***Certificate in Cloud Security & Disaster Recovery***. Completion of the course entitles you to 250 Continuing Professional Development points with the Irish Computer Society. The course also prepares you for the ***Certificate of Cloud Security Knowledge (CCSK)*** Certification from the Cloud Security Alliance (exam costs for this certification are not included). It also completes part of the requirements to be awarded the BSc in Cyber Security from IT Blanchardstown under the Cybersecurity Skills Initiative. The BSc Degree course is mapped to the EU e-Competence Framework and will allow you on successful completion of the whole degree course, to be designated as a Certified IT Security Specialist.

What's in it for Companies

These accreditations ensure employees are qualified to properly configure your cloud servers and secure your data. Coupled with the proper amount of experience, certified employees can serve as a crucial resource towards helping your company defend against a data breach.

What are the Entry Requirements

Candidates should have at least a Level 7 NFQ qualification or alternatively may apply under a non-standard entry process which recognises their prior experiential learning and experience.

What does it cost?

The cost after applying the grant from Skillnet Ireland is €400.

How do I Apply

You must complete the online application form at this link
https://goo.gl/forms/a3KC2wAIOfBr2CV73

Further Information

For further information and to enquire about payment options please email csi@ictskillnet.ie

Cybersecurity Skills Initiative (CSI)

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An Roinn Oideachais agus Scileanna
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