

School of Computer Science Engineering & Information Systems

Department of Software and Systems Engineering

M.Tech Software Engineering

SWE3099-Industrial Internship

INDUSTRIAL INTERNSHIP DIARY

Reg. no. : 20MIS0401

Name of the student : THILAKRAJ C

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Period of training : From :- 11 May To 24 June

Name of internal guide: Dr.Kalaivani S

Name of external guide: Harsh chhabra

Contact Details : 9212517527

Name of the industry : Etrain Education Pvt. Ltd

Company Address : 1211,12th Foor Hemkunt Chambers 89,New Delhi

Tell



Day 1 (May 11, 2023):

Task to be done: Begin Microsoft Certified: Security, Compliance, and Identity Fundamentals course.

Task done for that day: Introduction to the importance of the curriculum and core security concepts.





Day 2 (May 12, 2023):

Task to be done: Dive deeper into security concepts and threat landscape.

Task done for that day: Explored evolving threat landscape, including malware and phishing.

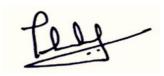




Day 3 (May 13, 2023):

Task to be done: Learn about Identity and Access Management (IAM).

Task done for that day: Introduction to IAM and authentication methods.





Day 4 (May 14, 2023):

Task to be done: Continue with IAM and dive into compliance.

Task done for that day: Hands-on Azure AD lab and overview of regulations.





Day 5 (May 15, 2023):

Task to be done: Explore data protection and security auditing.

Task done for that day: Covered data protection and security auditing mechanisms.

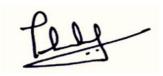




Day 6 (May 16, 2023):

Task to be done: Study network security threats and Azure Sentinel.

Task done for that day: Explored network security threats and introduced Azure Sentinel.





Day 7 (May 17, 2023):

Task to be done: Continue with security monitoring and incident response.

Task done for that day: Discussed security monitoring and policies.





Day 8 (May 18, 2023):

Task to be done: Delve into risk management and threat modeling.

Task done for that day: Covered risk management and threat modeling.





Day 9 (May 19, 2023):

Task to be done: Learn about Secure Score in Azure.

Task done for that day: Explored Secure Score and secure design principles.



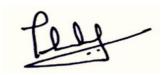


Day 10 (May 20, 2023):

Task to be done: Explore different compliance requirements.

Task done for that day: Discussed compliance requirements and Azure

Policy.





Day 11 (May 21, 2023):

Task to be done: Cover encryption techniques and identity protection.

Task done for that day: Examined encryption techniques and identity protection.





Day 12 (May 22, 2023):

Task to be done: Learn about security in Microsoft 365 and role-based access control.

Task done for that day: Covered security in Microsoft 365 and RBAC.





Day 13 (May 23, 2023):

Task to be done: Explore threat intelligence and secure email.

Task done for that day: Discussed threat intelligence and secure email.

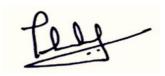




Day 14 (May 24, 2023):

Task to be done: Delve into identity synchronization and Azure resources.

Task done for that day: Explored identity synchronization and NSGs.





Day 15 (May 25, 2023):

Task to be done: Study security and compliance in Microsoft Teams.

Task done for that day: Covered security in Microsoft Teams and the principles of zero trust security.





Day 16 (May 26, 2023):

Task to be done: Learn about Microsoft Intune and Azure Information Protection.

Task done for that day: Explored Microsoft Intune and Azure Information Protection.





Day 17 (May 27, 2023):

Task to be done: Cover security in Azure Key Vault and regulatory compliance.

Task done for that day: Examined Azure Key Vault and regulatory compliance.





Day 18 (May 28, 2023)

Task to be done: Explore cloud identity solutions and disaster recovery.

Task done for that day: Learned about cloud identity solutions and disaster recovery.

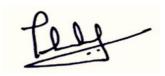




Day 19 (May 29, 2023)

Task to be done: Study access control and governance in Azure.

Task done for that day: Discussed access control and governance in Azure.





Day 20 (May 30, 2023)

Task to be done: Learn about secure DNS and the Shared Responsibility **Model.**

Task done for that day: Explored secure DNS and the Shared Responsibility Model.

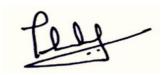




Day 21 (May 31, 2023)

Task to be done: Study security in Azure App Service and DevOps.

Task done for that day: Covered security in Azure App Service and secure DevOps practices.





Day 22 (June 1, 2023)

Task to be done: Learn about Azure Security Center and Azure Monitor.

Task done for that day: Explored Azure Security Center and Azure

Tell

Monitor.



Day 23 (June 2, 2023)

Task to be done: Explore Azure Bastion and network security.

Task done for that day: Discussed Azure Bastion and network security.

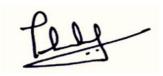




Day 24 (June 3, 2023)

Task to be done: Cover container security and Azure Firewall.

Task done for that day: Examined container security and Azure Firewall.

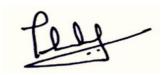




Day 25 (June 4, 2023)

Task to be done: Study security in Azure Kubernetes Service and incident response.

Task done for that day: Explored security in Azure Kubernetes Service and incident response planning.





Day 26 (June 5, 2023)

Task to be done: Learn about threat protection in Microsoft 365 and Azure AD B2B/B2C.

Task done for that day: Discussed threat protection and Azure AD B2B/B2C.

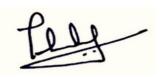
Day 27 (June 6, 2023)

Task to be done: Explore Azure Policy and security alerts.

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Task done for that day: Learned about Azure Policy and managing security alerts.





Day 28 (June 7, 2023)

Task to be done: Study Azure Blueprints and security assessment.

Task done for that day: Explored Azure Blueprints and security assessment.





Day 29 (June 8, 2023)

Task to be done: Learn about security in Azure IoT solutions and GRC frameworks. **Task done for that day:** Covered security in Azure IoT solutions and GRC frameworks.





Day 30 (June 9, 2023)

Task to be done: Explore security in Azure Databases and serverless computing.

Task done for that day: Examined security in Azure Databases and serverless computing.





Day 31 (June 10, 2023)

Task to be done: Learn about advanced threat protection and secure application access.

Task done for that day: Discussed advanced threat protection and secure application access with Azure AD Application Proxy.

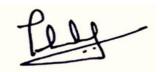




Day 32 (June 11, 2023)

Task to be done: Cover Azure Security and Compliance Center and Azure Container Registry.

Task done for that day: Examined Azure Security and Compliance Center and securing container images.





Day 33 (June 12, 2023)

Task to be done: Explore Azure Sphere and Secure DevOps.

Task done for that day: Explored Azure Sphere and Secure DevOps practices in a containerized environment.





Day 34 (June 13, 2023)

Task to be done: Learn about the importance of security and compliance training.

Task done for that day: Covered identity protection with Azure AD Identity Protection.





Day 35 (June 14, 2023)

Task to be done: Explore challenges and strategies for securing data in a multi-cloud environment.

Task done for that day: Discussed securing privileged identities in Azure AD Privileged Identity Management.





Day 36 (June 15, 2023)

Task to be done: Discuss security considerations for hybrid cloud environments.

Task done for that day: Explored secure network architectures and virtual network peering in Azure.





Day 37 (June 16, 2023)

Task to be done: Cover the fundamentals of Azure Sentinel for threat detection and response.

Task done for that day: Examined threat intelligence sources and the importance of threat data feeds.





Day 38 (June 17, 2023)

Task to be done: Learn about Azure Security Center's continuous monitoring and security assessments.

Task done for that day: Explored security and compliance considerations for cloud-based applications.





Day 39 (June 18, 2023)

Task to be done: Discuss container security, including container orchestration in Azure.

Task done for that day: Covered Azure Security and Compliance Blueprints for standardized compliance configurations.





Day 40 (June 19, 2023)

Task to be done: Examine best practices for securing Azure VMs.

Task done for that day: Explored data classification and labeling in Microsoft 365.





Day 41 (June 20, 2023)

Task to be done: Discuss identity and access management for Azure services and resources.

Task done for that day: Covered the principles of security, privacy, and compliance in Azure Cognitive Services.

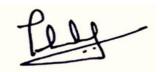




Day 42 (June 21, 2023)

Task to be done: Explore securing applications in Azure.

Task done for that day: Examined best practices for securing and managing secrets in Azure.





Day 43 (June 22, 2023)

Task to be done: Discuss Azure AD B2B and B2C for business-to-business and business-to-customer scenarios.

Task done for that day: Explored the importance of incident response planning in cybersecurity.

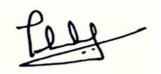




Day 44 (June 23, 2023)

Task to be done: Cover the principles of threat modeling and its application in identifying security vulnerabilities.

Task done for that day: Discussed advanced identity protection strategies and Azure AD Conditional Access.





Day 45 (June 24, 2023 - Exam Day)

Task to be done: Review and Revision: Dedicate the day to revising all the course materials.

Task done for that day: Successfully completed the certification exam with a score of 903 /1000, demonstrating a deep understanding of security, compliance, and identity fundamentals.

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