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| **New Zealand Diploma in Information System (Level 5 - 2597)**  **Project-Based Assessment Package** | |
| Title | Computer Fundamentals |
| Version | 1 |
| Last updated | 07 Sep 2022 |
| Learning Outcome | 7.1 Installation and configuration of systems and application software.  7.2 Foundation networking including internet concepts.  7.3 Hardware and software diagnostic testing, maintenance, technical and customer support across a range of devices.  7.4 Supporting end-user requirements.  7.5 Security concepts, tools, and techniques |
| Credits | Level 5 Credits 15 |

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| --- | --- |
| Assessment Section | Marks  Possible |
| Project StarTech | 25 |
| Project StarTech- Add Servers and Users | 40 |
| Project StarTech- Troubleshooting and End User Requirement | 25 |
| Interview | 10 |
| **Total Grade** A+=95-100, A=90-94, A-=85-89, B+=80-84, B=70-79, B-=60-69, C+=55-59, C=50-54, D=Below 50 | **100** |

# Student Declaration Statement

I have read, understood, and agreed on the following (refer to the student handbook):

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| --- | --- |
| Before the assessment |  |
| 1. Techtorium Assessment Conditions and Guidelines | 1. The responsibilities of the student |
| 1. The assessment environment is safe and accessible | 1. The responsibilities of the assessor |
| 1. The Learning Outcomes that will be assessed | 1. Options for re-assessment |
| 1. This assessment is my own original work unless otherwise specified | 1. Your completed assessment paper is the property of Techtorium and should not be removed from the premises at any time. |
| 1. I have acknowledged all sources of information used in the writing of this assignment by using the recognized in-text APA referencing standard using the latest version. All unpublished sources of information have been acknowledged. | 1. I have not copied either partially or in full any work from any other student or former student of Techtorium or any other tertiary institution. I promise not to share this project in part or whole with any other student at Techtorium or outside this campus |
| 1. I make this declaration in full knowledge and understanding that, should it be found false, Techtorium may take disciplinary action. | 1. I understand that Techtorium may make use of systems such as Turnitin.com or Plagscan.com to verify the originality of my work. |
| 1. [Academic Fraud](https://www.nzqa.govt.nz/assets/Providers-and-partners/NZQA-Effective-practice-guide.pdf) is a serious issue and will compromise your ability to study at Techtorium. If there is any doubt in your mind, then you should:  * State that you have copied and pasted work from another source * Use APA referencing * Include a weblink to the original source * Ask your Trainer for clarity | |
| After the assessment |  |
| 1. During the assessment, it was clear what I was expected to do | 1. The feedback I received enabled me to find ways of reaching the standard (if it was not reached during the assessment) |
| 1. I was treated fairly | 1. The feedback I received met my needs and expectations |
| Student feedback – *Before and After Assessment*:    *Please provide feedback so we can improve our Assessment Process* | |

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| Assessment Outcomes |
| **GPO 7**  Apply the fundamentals of IT technical support concepts and practice to manage hardware and software resources to meet organisational requirements.  **Programmes must include core IT technical knowledge and skills in:**  7.1 Installation and configuration of systems and application software.  7.2 Foundation networking including internet concepts.  7.3 Hardware and software diagnostic testing, maintenance, technical and customer support across a range of devices.  7.4 Supporting end-user requirements.  7.5 Security concepts, tools, and techniques |
| Student Instructions |
| 1. If you have any questions, you can ask your assessor before you start the assessment. You can also inform the assessor about any special needs that you may require completing this assessment. 2. If you wish to query the Assessors marking, then follow the appeal process stated in the Student Handbook 3. This assessment is to be submitted using a soft copy which will be saved to a location specified by the Assessor at the time of the assessment 4. If you are referring to external work, you must use appropriate referencing style APA version 6 [reference link](https://guides.unitec.ac.nz/apareferencing/webpages)   **Success Criteria**   1. To pass this assessment you must reach a minimum of a C grade (50%) 2. You will not receive a chance to improve your grade in the event that you pass 3. Changes to the deadline will require prior approval in writing by the Head of Student Engagement Team and only in exceptional circumstances. Requests will need to be initiated by the Student. 4. In normal circumstances, any delay in submission will result in a DNS (Did not Submit) which will mean your late submission will be considered as the second attempt. Any second attempt for this assessment will receive no higher than a C grade 5. You must not post up any work that you have posted already – all work for this assessment must be original |
| Student Resources |
| You will have access to the following resources for this assessment:   1. Assessment Coversheet (This document) 2. Declaration from Student (This document) 3. Student Instructions (This document) 4. Your own BYO Device 5. Hyper-v installed on Candidate’s BYODs. 6. ISOs for Server & Client |

# Project-StartTech(25 Marks)

**Outcome Mapping:**

**7.1 - Installation and configuration of systems and application software.**

**7.2 - Foundation networking including internet concepts.**

## Business Overview

You are an IT engineer at Startech ltd. Startech is a well-known IT company that provides IT solutions for small to large businesses and some of their core solutions are as follows:

* Helpdesk support services.
* Remote Support for instantaneous services
* Server, Workstations, and Endpoint Monitoring and Maintenance.
* Online support for users if needed.
* Backup Monitoring and maintenance
* Antivirus, Spyware Monitoring, and maintenance as well as network security solutions.
* 3rd Party Application Support and Management
* Website developments.
* Local and cloud storage solution.
* Infrastructure schematic design.
* Recently Startech ltd has taken on a major contract with a company called Skin Rose Ltd which specializes in making and selling cosmetic products.
* Skin Rose ltd has grown substantially over the last few months and they have only been around for one year.
* Recently they took over 2 sites one of them in Auckland which is the main site and the other is in Christchurch and due to their sudden growth and success, they wanted to start fresh at their new sites.
* Skin Rose ltd. currently have a total of 45 employees, 30 will be at the Auckland main branch and 15 will be at the Christchurch branch and this number might increase in the future.
* Skin Rose ltd signed a deal with Flash images Inc. Flash image Inc. which is a marketing and advertising agency and Skin Rose ltd is looking to share resources with them for marketing and advertising purposes securely.
* Their cosmetic products get manufactured in China and they will also require a secure method of communications and networking between Skin Rose ltd and the factory in china.
* Skin Rose ltd is growing continuously and there could be more chances for more branches in the future in other cities in New Zealand and possibly Australia.
* Skin Rose ltd currently has a small website that requires rebuilding from scratch, and they are requiring a new website that has their company history information page as well as information on their product prices and sales.
* As mentioned earlier Skin Rose ltd is a growing company and there might be an additional requirement along the way of sorting their current IT needs so expect additions to their requirements at any time.

## Project Requirements: Provide multiple screenshots to fulfill solution requirements.

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| --- | --- | --- |
| SR | Solution Requirement | Description |
| SR1.0 | **Implement the Following...**  Create Hyper-V [Virtual Switches](https://www.google.com/search?q=virtual+switches&safe=strict&sxsrf=ALeKk02erdj28doG7NarvGZEuho6OYtLDQ:1618369254831&ei=5lp2YOSmMrSa4-EPs7S06AI&oq=virtual+switches&gs_lcp=Cgdnd3Mtd2l6EAMyAggAMgIIADICCAAyAggAMgIIADICCAAyAggAMgIIADICCAA6BwgAEEcQsAM6BwgAELADEEM6BwgjEOoCECc6BAgjECc6BAguECc6BAgAEEM6BQgAELEDOgsILhCxAxDHARCjAjoFCAAQkQI6CAgAELEDEJECOgcIABCxAxBDOggIABCxAxCDAToICC4QxwEQrwE6CwgAELEDEIMBEJECOgcIABCHAhAUOgQIABAKUMq0Ilji1SJg9dYiaANwAngBgAHaAYgBoxySAQYwLjE5LjGYAQCgAQGqAQdnd3Mtd2l6sAEKyAEKwAEB&sclient=gws-wiz&ved=0ahUKEwjksbKk3_zvAhU0zTgGHTMaDS0Q4dUDCA4&uact=5) as required. (Default Switch, private switch)  Apply the following naming standard:  “Default”, “Private”  **(Ensure that there are no other Private switches in the switch manager)** | Screenshot of default switch switch from Virtual switch manager  Screenshot of Private switch from Virtual switch manager |
| Proof of work  Graphical user interface, text, application, email  Description automatically generated | | |
| SR1.1 | |  | | --- | | **Implement the Following...**  Must Create [Virtual Machines:](https://www.google.com/search?q=virtual+machines&safe=strict&sxsrf=ALeKk0346_HR4o4hKwg2T2EYuPlpyMtAeA:1618369823931&ei=H112YM2mOLHbz7sPyZyQ0AY&oq=virtual+machines&gs_lcp=Cgdnd3Mtd2l6EAMyBAgjECcyCwgAELEDEIMBEJECMgUIABCRAjIFCAAQkQIyAggAMgIIADICCAAyAggAMgIIADICCAA6BwgAEEcQsAM6BwgAEIcCEBQ6CAgAELEDEIMBOgQIABAKOggILhDHARCvAVDd8gFYgIcCYMOHAmgBcAJ4AIABxgGIAfwVkgEEMC4xNpgBAKABAaoBB2d3cy13aXrIAQjAAQE&sclient=gws-wiz&ved=0ahUKEwiNsuGz4fzvAhWx7XMBHUkOBGoQ4dUDCA4&uact=5)   * Boot of a mounted ISO e.g. Win Server, Win 10 * Assign 2 CPU Cores (optional) * Memory allocated = 2048MB or 4096MB * Gen 2/Gen 1 * Allocate a Virtual Switch e.g. “Default” | | Screenshot of the Virtual machines showing that ISO boots properly with all given configuration.   * Boot of a mounted ISO e.g. Win Server, Win 10 * Assign 2 CPU Cores (optional) * Memory allocated = 2048MB or 4096MB * Gen 2/Gen 1 * Allocate a Virtual Switch e.g. “Default” |
| Graphical user interface, text, application  Description automatically generated | | |
| SR1.2 | Implement the Following...  Windows Server 2019 OS Install and Configure  Names applied as in Current State (AKLSRDC01)  Windows Update=Disabled  Windows Defender Firewall=Disabled | Provide the following screenshot:  Windows Server 2019 was installed successfully  Windows Update=Disabled  Windows Defender Firewall=Disabled |
| Proof of work    Graphical user interface, text, application, email  Description automatically generated | | |
| SR1.3 | Create a checkpoint of your VM in Hyper-V and name it SRV01 | Screenshot of the Checkpoint |
| Proof of work  Graphical user interface, application  Description automatically generated | | |
| SR1.4 | Create a Windows 10 client named Win10Client in Hyper V with the following values:  Gen 2, 1024MB RAM, Default Network, 127GB VHD stored in the default location, the bootable image file is Windows10 Multiple Edition (Pro or Home)  Install and configure Win10 VM Using your name as the username and Password1 | Screenshot of the Windows10 client machine with all the configurations. |
| Proof of work  Graphical user interface, text, application, email  Description automatically generated | | |
| SR1.5 | Research and Select an Alternative Web Browser  Install into the Win 10 VM​​​​​​​  e.g. Google Chrome | Screenshot of the browser installed on Win 10 client machine |
| Proof of work  SGraphical user interface, application, Word  Description automatically generated | | |
| SR1.6 | Research and select an AntiVirus Tool  Install into the Win 10 VM  e.g., Avira, AVG, Avast | Screenshot of the Antivirus installed on Win 10 client machine |
| Proof of work  Graphical user interface, application, website  Description automatically generated | | |
| SR1.7 | Confirm connectivity between the server and the two-client computer. Provide screenshots to show this connectivity. (Ping the IP Address for the designated computer) Ensure both VMs are running and file sharing is enabled  Windows 10 Client to Server  Server to Windows10 Client | * 1. Provide a Screenshot of the ping from client to server   2. Provide a Screenshot of the ping from server to client |
| Proof of work  A computer screen capture  Description automatically generated with medium confidence | | |
| SR1.8 | Create a checkpoint of your VM in Hyper-V and name it Win10Client | Screenshot of the Checkpoint on Win10 VM |
| Proof of work  Graphical user interface  Description automatically generated | | |

# Project-StartTech- Add Servers and Users(40 Marks)

**Outcome Mapping:**

**7.1 - Installation and configuration of systems and application software.**

**7.2 - Foundation networking including internet concepts.**

**7.5 - Security concepts, tools, and techniques.**

## Business Overview

You are an IT engineer at Startech ltd. Startech is a well-known IT company that provides IT solutions for small to large businesses and some of their core solutions are as follows:

* Helpdesk support services.
* Remote Support for instantaneous services
* Server, Workstations, and Endpoint Monitoring and Maintenance.
* Online support for users if needed.
* Backup Monitoring and maintenance
* Antivirus, Spyware Monitoring and maintenance as well as network security solutions.
* 3rd Party Application Support and Management
* Website developments.
* Local and cloud storage solution.
* Infrastructure schematic design.
* Recently Startech ltd has taken on a major contract with a company called Skin Rose Ltd which specializes in making and selling cosmetic products.
* Skin Rose ltd has grown substantially over the last few months and they have only been around for one year.
* Recently they took over 2 sites one of them in Auckland which is the main site and the other is in Christchurch and due to their sudden growth and success, they wanted to start fresh at their new sites.
* Skin Rose ltd. currently have a total of 45 employees, 30 will be at the Auckland main branch and 15 will be at the Christchurch branch and this number might increase in the future.
* Skin Rose ltd signed a deal with Flash images Inc. Flash image Inc. which is a marketing and advertising agency and Skin Rose ltd is looking to share resources with them for marketing and advertising purposes securely.
* Their cosmetic products get manufactured in China and they will also require a secure method of communications and networking between Skin Rose ltd and the factory in china.
* Skin Rose ltd is growing continuously and there could be more chances for more branches in the future in other cities in New Zealand and possibly Australia.
* Skin Rose ltd currently has a small website that requires rebuilding from scratch, and they are requiring a new website that has their company history information page as well as information on their product prices and sales.
* As mentioned earlier Skin Rose ltd is a growing company and there might be an additional requirement along the way of sorting their current IT needs so expect additions to their requirements at any time.

## Project Requirements: Provide multiple screenshots to fulfill solution requirements.

|  |  |  |
| --- | --- | --- |
| SR | Solution Requirement | Description |
| SR1.1 | **Install Active Directory with the following configuration:**   * **Set the administrator password to “Password1” to meet complexity requirements and log on with the administrator account on the system.** * **Configure the server with the IP address 192.168.1.1** * **Change the server name to CentExSRV1** * **Add a new forest with the Root domain name “ISStudentname.local” (ISmithhood.local)** * **Set the password” Password1”** * **Provide a screenshot of the Local Server Manager that shows the above services as installed** | Attach following screenshots:   * **Set the administrator password to “Password1”.** * **Configure the server with the IP address 192.168.1.1** * **Change the server name to CentExSRV1** * **Add a new forest with the Root domain name “ISStudentname.local” (ISmithhood.local)** * **Set the password” Password1”** |
| Proof of work  Graphical user interface, text, application, email  Description automatically generated | | |
| SR1.2 | |  | | --- | | Create two users named Super (*Yourname*)1 and Super(*Yourname*)2 to login later from the Client machine. (For example Supersmith1) | | Attach following screenshots:   * Screenshot of the users created * login page from the client machine |
| Proof of work | | |
| SR1.3 | ​​​​​​​Set the IP addresses of the Client machine and Client2 machine as 192.168.1.21 and 192.168.1.20 respectively then ensure that both machines can ping each other successfully. | Attach following screenshots:   * Assigned IP address on client machine * Ping command screenshot from client to client2 machine * Assigned IP address on client2 machine * Ping command screenshot client2 to client machine |
| Proof of work  Graphical user interface, text  Description automatically generated | | |
| SR1.4 | ​​​​​​​Join the Windows 10 machine to the domain | Screenshot of the Windows10 machine showing that it has joined the same domain. |
| Proof of work  Graphical user interface, text, application  Description automatically generated | | |
| SR1.5 | Create a shared folder on the server named “SharedWork” and share with Super(Yourname)1 by giving full permission and with Super(Yourname)2 by giving read-only permission | Screenshot of the shared folder on the server with permissions assigned to both users. |
| Proof of work  Graphical user interface, text, application  Description automatically generatedGraphical user interface, application  Description automatically generated | | |
| SR1.6 | Create a folder on the Client machine named “Yourname\_Backup” (for example Smith\_Backup) with full permission using Super(Yourname)1  and share it with the Server Administrator | Screenshot of the backup folder on the client machine with permissions assigned to user and server administrator. |
| Proof of work  A screenshot of a computer  Description automatically generated | | |
| SR1.7 | **Map a network drive**  Create a partition with Letter Y on the Client machine. | Screenshot of the partition created with letter “Y” |
| Proof of work  A screenshot of a computer screen  Description automatically generated | | |
| SR1.8 | Data at Rest Protection: Bitlocker  Activate Bitlocker on the Windows 10 VM  Activate Bitlocker on the Server CentExSRV1 | Screenshot of the Bitlocker activated on client machine “Windows10VM” and Server “CentExSRV1” |
| Proof of work  A screenshot of a computer screen  Description automatically generatedA screenshot of a computer  Description automatically generated | | |
| SR1.9 | Create a backup schedule on the server to save a backup file of servers on the client machine. | Screenshot of windows server backup schedule on server |
| Proof of work  Graphical user interface, application  Description automatically generatedGraphical user interface, text, application  Description automatically generatedGraphical user interface, application  Description automatically generated | | |
|  | | |

# Project-StartTech- TroubleShooting and End-User Requirement(25 Marks)

**Outcome Mapping:**

**7.3- Hardware and software diagnostic testing, maintenance, technical and customer support across a range of devices.**

**7.4- Supporting end-user requirements**

## Business Overview

You are an IT engineer at Startech ltd. Startech is a well-known IT company that provides IT solutions for small to large businesses and some of their core solutions are as follows:

* + - Helpdesk support services.
    - Remote Support for instantaneous services
    - Server, Workstations, and Endpoint Monitoring and Maintenance.
    - Online support for users if needed.
    - Backup Monitoring and maintenance
    - Antivirus, Spyware Monitoring and maintenance as well as network security solutions.
    - 3rd Party Application Support and Management
    - Website developments.
    - Local and cloud storage solution.
    - Infrastructure schematic design.
* Recently Startech ltd has taken on a major contract with a company called Skin Rose Ltd which specializes in making and selling cosmetic products.
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* Recently they took over 2 sites one of them in Auckland which is the main site and the other is in Christchurch and due to their sudden growth and success, they wanted to start fresh at their new sites.
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* Their cosmetic products get manufactured in China and they will also require a secure method of communications and networking between Skin Rose ltd and the factory in china.
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* Skin Rose ltd currently has a small website that requires rebuilding from scratch, and they are requiring a new website that has their company history information page as well as information on their product prices and sales.
* As mentioned earlier Skin Rose ltd is a growing company and there might be an additional requirement along the way of sorting their current IT needs so expect additions to their requirements at any time.

## Project Requirements: Provide multiple screenshots to fulfill solution requirements

|  |  |  |
| --- | --- | --- |
| SR | Solution Requirement | Description |
| SR1.1 | Incident Record 1 | Attach the screenshot of the incident record generated, it must also address the solution provided. |
| Proof of work   |  |  | | --- | --- | | Incident Record 1 | | | Incident Reference Number: 90210 | | | Date of CallTime of CallUserStatus | Tuesday 30th August  8.27am  SuperConnor1  Fixed | | Incident Details: Was unable to install a feature from client device | | | Additional Information: | | | Plan of Action: Rerun client device and install as administrator | | | Resolution: Installed successfully as administrator | | | | |
| SR1.2 | |  | | --- | | Incident Record 2 | | Attach the screenshot of the incident record generated, it must also address the solution provided. |
| Proof of work   |  |  | | --- | --- | | Incident Record 2 | | | Incident Reference Number: 90211 | | | Date of CallTime of CallUserStatus | Wednesday 31st August  9.16am  Administrator  Fixed | | Incident Details: Default gateway was not set. | | | Additional Information: Unable to fix device issues such as audio drivers and such | | | Plan of Action: Set the default gateway under Network Ethernet Properties as 192.168.1.1 | | | Resolution: Troubleshooting was able to fix audio issue | | | | |
| SR1.3 | ​​​​​​​ Incident Record 3 | Attach the screenshot of the incident record generated, it must also address the solution provided. |
| Proof of work   |  |  | | --- | --- | | Incident Record 3 | | | Incident Reference Number: 90212 | | | Date of CallTime of CallUserStatus | Wednesday 31st August  10.15am  SuperConnor1  Fixed | | Incident Details: Virtual Machine Boot failed to load operating system | | | Additional Information: | | | Plan of Action: Close virtual machine and rerun, pressing any key to run windows | | | Resolution: Operating System loaded | | | | |
| SR2.1 | **Trouble Shooting: Communication issue**  The server is not pinging successfully with the client. The IP address for the machines are as follows:  Server: IP address: 10.0.0.1, Subnet Mask: 255.0.0.0  Client: IP address: 10.0.0.2, Subnet Mask: 255.255.0.0   * Identify the problem. * Discuss the steps you took to diagnose this problem. * Write down a step-by-step plan to resolve the issue. * Indicate whether the problem has been resolved successfully. * Provide any additional information/comments regarding this scenario. | Attach the screenshot and explanation of fixing this issue |
| Proof of work  After changing the ip addresses, I noticed that the two devices were unable to ping each other through command prompt. This may be due to the network discovery, as I went into Network and Sharing Centre, and turned on network discovery for private networks on both devices, and the server was successfully pinging the client machine again. | | |
| SR2.2 | |  | | --- | | Trouble Shooting - Sharing permission  Super(Yourname)2 is unable to rename or edit the file saved by Super(Yourname)1 and create a new text file in the “SharedWork” folder   * Identify the problem. * Discuss the steps you took to diagnose this problem. * Write down a step-by-step plan to resolve the issue. * Indicate whether the problem has been resolved successfully. * Provide any additional information/comments regarding this scenario. | | Attach the screenshot and explanation of fixing this issue |
| Proof of work  Graphical user interface, text, application  Description automatically generated  SuperConnor2 is unable to edit or create a text file in the SharedWork folder as the users permissions are only read, not read/write. This means that the user is able to view the folder, but unable to edit or create files in the folder. To be able to edit or create files in the folder, the users permissions must be changed. To do this, on the Client1 machine where the folder was created, right-click it and head over to properties and permissions, and change SuperConnor2’s permissions from read to read/write. Reopen your second vm signed into SuperConnor2, and you should be able to edit and create files under the SharedWork folder | | |
| SR2.3 | Trouble Shooting - Boot  After you created and turned on your virtual machine the system displayed an error message with a virtual machine boot summary to show that no operating system was loaded, or your virtual machine was configured incorrectly.   * Identify the problem. * Discuss the steps you took to diagnose this problem. * Write down a step-by-step plan to resolve the issue. * Indicate whether the problem has been resolved successfully. * Provide any additional information/comments regarding this scenario. | Attach the screenshot and explanation of fixing this issue |
| Proof of work  This message is displayed when the virtual machine is booting up and no key is pressed. To prevent this message from appearing again, when you turn on your vm, it should say “Press any key to boot from CD or DVD…”. When this appears, press any key on your keyboard and your vm should boot up fine. | | |
| SR3.1 | ​​​​​​​ Investigate any network connectivity issues using the following command-line utilities:   * Ping * IPConfig | Provide screenshots using the Ipconfig command from the client  Provide screenshots of ping from client to server  Provide screenshots using the Ipconfig command from the server  Provide screenshots of ping from server to client |
| Proof of work    Ethernet network (switch) was disabled, therefore unable to ping. To fix this I went into network and sharing centre, change adapter settings and enabled the switch by right clicking on it and clicking enable. As a result the two machines were able to ping each other | | |
| SR3.2 | Your company might have faced a security breach and you have been tasked to secure windows 10 machines  Implement security measures and provide explanations for your solutions. | Attach either image(s), video(s), or by writing your word |
| Proof of work  I have installed bitlocker drive encryption on my Y drive to prevent security breaches as my drive requires the encryption key to access files in it. I have done this by adding roles/features on my server manager and adding “Bitlocker Drive Encryption” and backed up the encryption key to both vms  I have also created a backup folder on my client machine that only the Administrator can edit, so therefore no one else is able to access the files or the encryption key as this is where I’ve stored it  I have also used Azure key vault to store the files in hardware security modules (HSMs) certified to FIPS 140-2 Level 2 standards. The encryption keys for backup or transparent data encryption can all be stored in Key Vault with any keys or secrets from your applications. Permissions and access to these protected items are managed through Azure Active Directory. | | |

# Interview (10 Marks)

**Outcome Mapping:**

**7.1- Installation and configuration of systems and application software.**

**7.2- Foundation networking including internet concepts.**

**7.3- Hardware and software diagnostic testing, maintenance, technical and customer support across a range of devices.**

**7.4- Supporting end user requirements.**

**7.5- Security concepts, tools, and techniques.**

Students will be asked some questions based on the projects that they have completed to make this assessment and to check the authenticity of their work.

Note: Please refer marking rubric for the details