Assessment 3

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Prototype

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Contents

[Virtual Machine Configuration 3](#_Toc101091424)

[Methodology 4](#_Toc101091425)

[Preparing Virtual Machines 5](#_Toc101091426)

[References 9](#_Toc101091427)

# Virtual Machine Configuration

The virtual machines to be used throughout this project are listed in the following table.

|  |  |  |
| --- | --- | --- |
| ***Server. No.*** | ***VM Name*** | ***Operating System*** |
| *1* | *DC01* | *Windows Server 2022* |
| *2* | *DC02* | *Windows Server 2022* |
| *Workstation 1* | *CLIENT01* | *Windows 11* |
| *Workstation 2* | *CLIENT02* | *Windows 11* |
| *Workstation 3* | *CLIENT03* | *Windows 11* |
| *Workstation 4* | *CLIENT04* | *Windows 11* |
| *Workstation 5* | *CLIENT05* | *Windows 11* |

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### Methodology

To prepare a virtual lab consisting of 2 servers running Microsoft Server 2022 and 5 client machines running Microsoft Windows 11 mentioned in the following table 1. Evaluation ISO images (Windows Server 2022 (Insider Preview) and Windows 11\_English) were downloaded from the Microsoft Evaluation download centre. VM Ware Workstation software was provided by ECU University, downloaded and installed on the host machine (Dell 9010 SSF workstation). The first virtual machine which will be the first Domain Controller (DC01) created in VMWare. Installation was performed by an automated .xml file. Once installed this server was promoted as a Domain Controller in the widgetllc Forest with Active Directory services installed. The second Domain Controller (DC02) was then installed in Vmware and promoted to the widgetllc domain with the IP addressing structure used in the below table.

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **VM Name** | **IP Address** | **Role** |
| 04/04/2022  10.05.00am | DC01 | 192.168.1.222 | Domain Controller of the widgetllc Domain |
| 04/04/2022  13.30.00pm | DC02 | 192.168.1.223 | Domain Controller of the widgetllc Domain |
| 05/04/2022  09.00.00am | CLIENT01 | 192.168.1.224 | Client machine of widgetllc Domain |
| 04/04/2022  10.00.00am | CLIENT02 | 192.168.1.225 | Client machine of widgetllc Domain |
| 04/04/2022  11.00.00.am | CLIENT03 | 192.168.1.226 | Client machine of widgetllc Domain |
| 04/04/2022  12.00.00pm | CLIENT04 | 192.168.1.227 | Client machine of widgetllc Domain |
| 04/04/2022  13.00.00pm | CLIENT05 | 192.168.1.228 | Client machine of widgetllc Domain |

Table 1.

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### Preparing Virtual Machines

The following tasks were performed on the host machine to create a Virtual Lab for testing purposes:

1. Install VM Workstation or Player to the host machine
2. Create a Virtual Machine for DC01
3. Create a Virtual Machine for DC02
4. Create a Virtual Machine for CLIENT01
5. Create a Virtual Machine for CLIENT02
6. Create a Virtual Machine for CLIENT03
7. Create a Virtual Machine for CLIENT04
8. Create a Virtual Machine for CLIENT05.

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### References

Mark, K. G. (2016). *Installing and Configuring Windows Server 2016* https://pdfroom.com/books/installing-and-configuring-windows-server-2016-hands-on-guide-step-by-step-lab-guide/j9ZdYZ1rgV4/download