**Active Directory Server**

**Build Document**

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| ***Prepared for:*** | **Lean Development Pty Ltd** |

**Document Control**

## Document Details

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| **Document category** | Server build document |
| **Template version** | 1.0 |
| **Title** | Active Directory Server Build Document |
| **Prepared by** | MP Tech Solutions Ltd |
| **Responsible System Engineer** | WangYiZhuo |
| **Project Management Consultant** | XiangwangZheng |
| **Client** | Lean Development Pty Ltd |

## Change Record

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| --- | --- | --- | --- |
| **Version** | **Change Description** | **Date** | **Author** |
| 1.0 | Initial Server Build documentation | 05/08/2024 | WangYiZhuo |
|  |  |  |  |

## Related Documents

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| --- | --- | --- | --- |
| **Document** | **Version** | **Why Referenced?** | **Source / Location** |
| Active Directory Server Design for Lean Development Pty Ltd | 1.0 | Design document | Electronic copy via email |

# Purpose of Document

Lean Development Pty Ltd (LD) is in the process of upgrading their network and server infrastructure. As part of this upgrade, MP Tech Solutions Ltd (MP Tech) deployed a new Active Directory server into the environment.

This document presents a record of the configuration and system settings of the server at the time of handover to LD.

# Virtualisation Environment

Existing LD virtualisation infrastructure was used for deploying the server. This environment (performance and capacity) is able to cater for all infrastructure requirements stipulated in the design document.

# Network environment

The server will operate on the following subnet:

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| **Details of the subnet the server is located on** | |
| Server subnet (CIDR notation): | 10.21.02.0 / 24 |
| Gateway: | 10.21.02.254 |

# Virtual Machine Settings

The Virtual Machine (VM) resources and settings are presented in the table below.

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| **Virtual Machine Details (Hypervisor settings)** | |
| **General Information**  Virtual Machine Name: | W02-Win2019-Full-2-DE-Eval |
| Operating System Type: | Microsoft Windows |
| Operating system Version: | Windows 2019 (64-bit) |
| **System Information**  Base Memory: | 4096MB |
| System Processor(s) count: | 1 |
| **Storage**  Controller: Name: | SATA |
| Virtual Disk Device 1 (***OS disk***):  Type ([storage] format):  Virtual Size:  Details:  Location: | RAID5: Min 130GB (3 disks) |
| Virtual Disk Device 2 (***data disk***):  Type ([storage] format):  Virtual Size:  Details:  Location: | RAID5: Min 130GB (3 disks) |
| Virtual Disk Device 3 (***data disk***):  Type ([storage] format):  Virtual Size:  Details:  Location: | RAID5: Min 130GB (3 disks) |
| Virtual Disk Device 4 (***optional data disk***):  Type ([storage] format):  Virtual Size:  Details:  Location: |  |
| Virtual Disk Device 5 (***optional data disk***):  Type ([storage] format):  Virtual Size:  Details:  Location: |  |
| CD/DVD drive [Yes/No] | Yes |
| **Network**  Adapter 1: Attached to: | *Internal Network* |

# Computer Settings

## General Settings

General settings as recorded in ‘Control Panel / System’ are presented below:

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## Logical Network Settings

Network and adapter and IP settings is provided using the command ‘ipconfig /all’:

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## Logical Storage

Listing of disks and volumes is provided using the PowerShell command set:

Hostname ; Get-Volume

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# Roles and Features Installed

Listing of all roles and features installed on the server is provided using the PowerShell command set:

Hostname ; Get-WindowsFeature | where-object {$\_.Installed -eq $True}

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# Core Network Services

## DNS

DNS is installed on the server and all zones are integrated with Active Directory (AD). Listing of all DNS zones is provided using the PowerShell command:

Get-DnsServerZone

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## DHCP

DHCP is installed on the server. Listing of all DHCP scopes is provided using the PowerShell command:

Get-DhcpServerv4Scope

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# Active Directory

## Forest, Domain and Site

The server acts as Domain Controller (DC) and Global Catalog server. At this stage this DC holds all Operation Master roles. Listing of the Active Directory (AD) forest, domains and sites is provided using the PowerShell command:

Get-AdForest ; netdom query fsmo

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## Organizational Units

The Organizational Unit (OU) structure reflects the stipulated system administration requirements. Listing of the OUs is provided using the PowerShell command:

Get-ADObject -Filter { ObjectClass -eq 'organizationalunit' }

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## Security Groups

The group structure reflects the security requirements of the divisions/departments of the organisation. Listing of all Global security groups in AD is provided using the PowerShell command:

Get-ADGroup -filter {GroupScope -eq "Global"} | Select Name,DistinguishedName | Sort-Object Name

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## Groups Policy Objects

Listing of all GPO’s in AD is provided using the PowerShell command:

Get-GPO -all | Select DisplayName,Owner | Sort-Object DisplayName

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# Shared Folders

Listing of all shared folders on the server is provided using the PowerShell command:

net share

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# Clean up and restore worksite

Temporary and template VMs used during the server deployment were removed from the work environment.

Listing of VMs on the host on completion of the project (using PowerShell prompt):

CD "C:\Program Files\Oracle\VirtualBox"

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| ***Note:*** | ***In the above command you must make sure that you specify the path where you have installed VirtualBox.*** |

whoami ; get-date ; .\vboxmanage list vms

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Project Acceptance Sign Off

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| **Project** | |
| **Customer:** | Lean Development Pty Ltd |
| **Project**: | Active Directory Server Deployment |

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| --- | --- | --- |
| **Final status report** | **Select**  Yes or No | |
| Server design document has been produced and approved | | Yes |
| Agreed server services/applications are configured and operational | | Yes |
| Standard build documentation has been produced and approved | | Yes |
| Pre-production testing was successfully carried out | | Yes |
| Work site and network environment was left in order and to the client’s satisfaction | | Yes |
| The work was finished within the agreed timeframe | | Yes |

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| **Server validation** | **Select**  Yes or No |
| Server was built and configured according to the given design specifications and meets the operational requirements | Yes |

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| **Project completion acceptance** | **Select**  Yes or No |
| **The project has been successfully completed** | Yes |

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| **MP Tech Solutions Ltd** | |
| WangYiZhuo/ System Engineer | Date: 05 / 08 / 2024 |
| MP Tech Solutions Ltd |  |

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| **Lean Development Pty Ltd** | |
| XiangwangZheng / MP Tech - Project Management Consultant | Date: 05 /08/0224 |
| On behalf of Lean Development Pty Ltd representative |  |