00 MULTI-CLOUD HYBRID/RETRO LAB CORE NETWORKING AND INFRASTRUCTURE

ATTILA'S ON-PREMISES SITE

MODERN/CURRENT OPERATING SYSTEMS
Address space: 172.22.**22**.0/24 (VLAN **22**)

DC01
[172.22.22.1]
Windows Server 2022
First Domain Controller
(1 VCPU, 2GB RAM)

FS01A
[172.22.22.2]
Windows Server 2025
Active File Server
(CSV on iSCSI)
(1 VCPU, 2GB RAM)

FS01B
[172.22.22.3]
Windows Server 2025
Standby/Passive File Server
(CSV on iSCSI)
(1 VCPU, 2GB RAM)

DB01A
[172.22.22.4]
Windows Server 2025
SQL X
(X VCPU, XGB RAM)

DB01B
[172.22.22.5]
Windows Server 2025
SQL X
(X VCPU, XGB RAM)

APP01
[172.22.22.6]
Windows Server 2025
IIS X
(X VCPU, XGB RAM)

TrueNAS ENTERPRISE

TNAS1
[172.22.22.252]
True NAS Server
(2 VCPU, 16GB RAM)

Synology

NAS1 (@10G)
[172.22.22.253]
Synology NAS 1821+
(4 VCPU, 64GB RAM)

Cisco Switch
[172.22.22.251]
TBD
Management IP (VLANs)
(48 port, gigabit, 10G SFP)

Mikrotik Firewall
[172.22.22.254]
RB5009UPr+S+ (arm64)
Mikrotik Gateway/Firewall
(1 VCPU, 2GB RAM)

Site2Site VPN

Modern Printer
[172.22.22.?]
Canon
(A3, color, laser)

Modern Clients (DHCP)
[172.22.22.200-240]
Windows 10, 11
(physical or VM)

PETER'S ON-PREMISES SITE

MODERN/CURRENT OPERATING SYSTEMS
Address space: 172.22.**23**.0/24 (VLAN **23**)

M
[172.22.23.254]
RG222
Mikrotik Gateway/Firewall
(1 VCPU, 2GB RAM)

Cisco Switch
[172.22.23.251]
XXX
Management IP (VLANs)
(48 port)

DC02
[172.22.23.1]
Windows Server 2022
Additional Domain Controller
(1 VCPU, 2GB RAM)

Modern Clients (DHCP)
[172.22.22.200-240]
Windows 11 physical or VM

UBUNTU24
[172.22.23.?]
Unbuntu Linux 24.04 LTS
Noble Numbat (2024)
(2 VCPU, 4GB RAM)

TrueNAS ENTERPRISE

TNAS2
[172.22.22.252]
True NAS Server
(2 VCPU, 16GB RAM)

Synology

NAS2 (@1G)
[172.22.22.253]
Synology NAS 1821+
(4 VCPU, 64GB RAM)

RETRO/LEGACY OPERATING SYSTEMS

Address space: 172.22.**16**.0/24 (VLAN **16**)

L-DC01
[172.22.16.1]
Windows Server 2003 R2
Primary Domain Controller
(1 VCPU, 1GB RAM)

L-FS01
[172.22.16.2]
Windows Server 2003 R2
Primary File Server
(1 VCPU, 1GB RAM)

L-DB01
[172.22.16.4]
Windows Server 2003 R2
SQL Server 2005
(1 VCPU, 2GB RAM)

L-APP01
[172.22.16.6]
Windows Server 2003 R2
IIS Server 6.0
(1 VCPU, 1GB RAM)

Retro/Legacy Clients (DHCP)
[172.22.22.200-240]
DOS 6.22, Windows 98, XP, 7
physical or VM

Retro Matrix Printer
[172.22.22.?]
via HP JetDirect
Epson LX-300
(A4, color, matrix)

RETRO/LEGACY OPERATING SYSTEMS

Address space: 172.22.**17**.0/24 (VLAN **17**)

L-DC02
[172.22.17.1]
Windows Server 2003 R2
Secondary Domain Controller
(1 VCPU, 1GB RAM)

L-UBUNTU410
[172.22.17.?]
Unbuntu Linux 4.10
Warty Warthog (2004)
(1 VCPU, 1GB RAM)

Retro/Legacy Clients (DHCP)
[172.22.22.200-240]
DOS 6.22, Windows 98, XP, 7
physical or VM

AZURE (26)

Address space: 172.22.**26**.0/24 (VLAN **16**)

Mikrotik Firewall
[172.22.26.4]
CHR
Mikrotik Gateway/Firewall
B1s (1 VCPU, 2GB RAM)

AWS (27)

Address space: 172.22.**27**.0/24 (VLAN **16**)

Mikrotik Firewall
[172.22.27.?]
Cloud Hosted Router (CHR)
Mikrotik Gateway/Firewall
? (1 VCPU, 2GB RAM)

GCP (28)

Address space: 172.22.**28**.0/24 (VLAN **16**)

Mikrotik Firewall
[172.22.28.?]
Cloud Hosted Router (CHR)
Mikrotik Gateway/Firewall
? (1 VCPU, 2GB RAM)

OCI (29)

Address space: 172.22.**29**.0/24 (VLAN **16**)

Mikrotik Firewall
[172.22.29.?]
Cloud Hosted Router (CHR)
Mikrotik Gateway/Firewall
? (1 VCPU, 2GB RAM)

HUAWEI (30)

Address space: 172.22.**30**.0/24 (VLAN **16**)

Mikrotik Firewall
[172.22.30.?]
Cloud Hosted Router (CHR)
Mikrotik Gateway/Firewall
? (1 VCPU, 2GB RAM)

CloudMigration.hu LAB
High Level Overview - On-premises sites
An effort to deploy the best possible multi-cloud/hybrid lab.
Attila Macskasy, Peter Karpati
February, 2025