

# Network Diagram: Exogredient

## Team A

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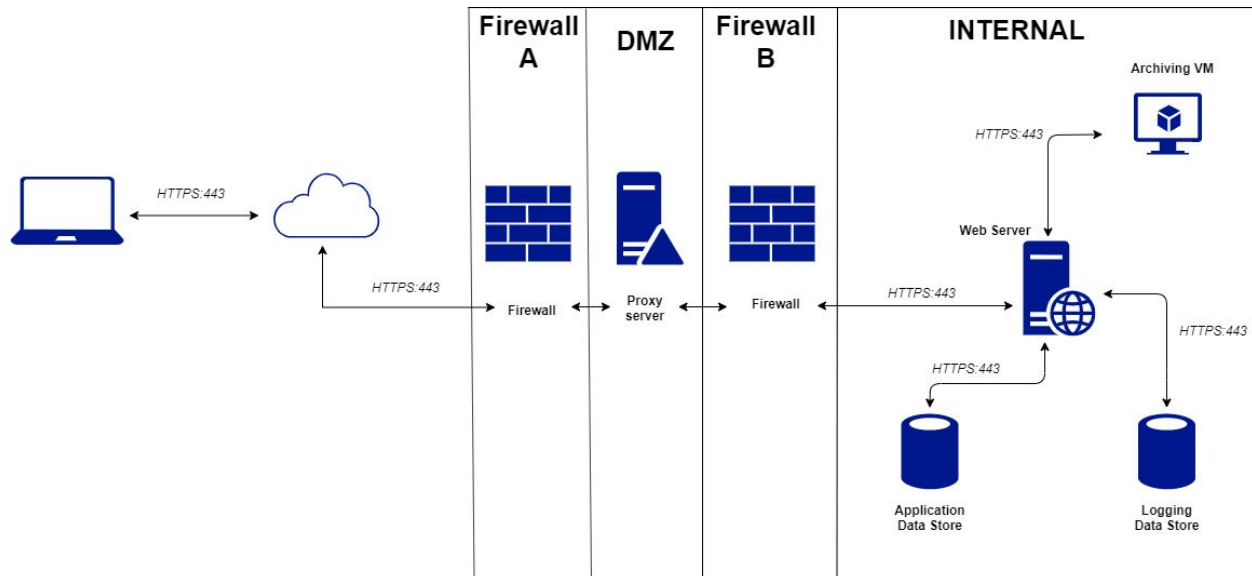
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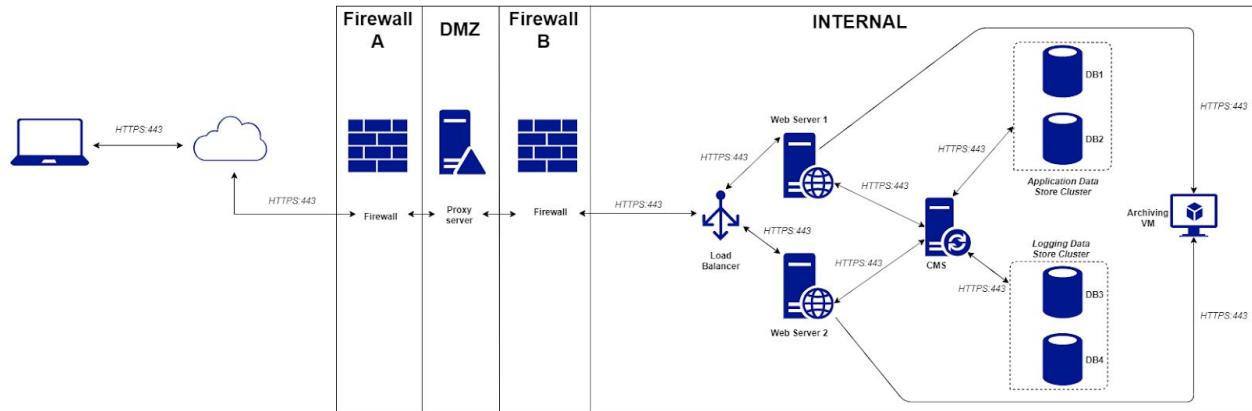
## Actual Initial Network Diagram:



Component	Firewall A	Proxy Server	Firewall B
Responsibilities	Restrict IP addresses, ensures HTTPS connections.	Proxy server gets registered to DNS.	Ensures only requests from proxy continue. Restrict to just HTTPS.
Specifications	IP: tdb	IP: tdb RAM: 3.75 GB CPU: 1vCPU STORAGE: 10 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: nginx	IP: tdb

Component	<u>Web Server</u>	<u>Application Data Store</u>	<u>Logging Data Store</u>	<u>Archiving VM</u>
<b>Responsibilities</b>	Handle client requests. Flat file logs stored in a separate partition.	Store all application data.	Store all system logs.	Store compressed archives.
<b>Specifications</b>	IP: tbd RAM: 3.75 GB CPU: 1vCPU 2.0 Ghz STORAGE: 10 GB OS: Windows Server 2019 SOFTWARE: IIS	IP: tbd RAM: 3.75 GB CPU: 1 vCPU 2.0 Ghz STORAGE: 20 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: mysql community server version 8	IP: tbd RAM: 3.75 GB CPU: 1 vCPU 2.0 Ghz STORAGE: 20 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: mysql community server version 8	IP: tbd RAM: 3.75 GB CPU: 1vCPU 2.0 Ghz STORAGE: 300 GB OS: Windows 10

## Planned Final Network Diagram:



Component	Firewall A	Proxy Server	Firewall B
Responsibilities	Restrict IP addresses, ensures HTTPS connections.	Proxy server gets registered to DNS.	Ensures only requests from proxy continue.
Specifications	IP: tbd Protocol: TCP	IP: tbd RAM: 3.75 GB CPU: 1vCPU STORAGE: 10 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: nginx	IP: tbd Protocol: TCP

Component	<u>Load Balancer</u>	<u>Web Server 1</u>	<u>Web Server 2</u>	<u>CMS</u>
<b>Responsibilities</b>	Splits traffic between the web server farm.	Handle client requests. Flat file logs stored in a separate partition.	Handle client requests. Flat file logs stored in a separate partition.	Ensures replication between data stores in the clusters.
<b>Specifications</b>	IP: tbd ALGORITHM: Even Split	IP: tbd RAM: 3.75 GB CPU: 1vCPU 2.0 Ghz STORAGE: 10 GB OS: Windows Server 2019 SOFTWARE: IIS	IP: tbd RAM: 3.75 GB CPU: 1vCPU 2.0 Ghz STORAGE: 10 GB OS: Windows Server 2019 SOFTWARE: IIS	IP: tbd SOFTWARE: Galera

Component	<u>DB1</u>	<u>DB2</u>	<u>DB3</u>	<u>DB4</u>	<u>Archiving VM</u>
<b>Responsibilities</b>	Store all application data.	Store all application data.	Store all system logs.	Store all system logs.	Store compressed archives.
<b>Specifications</b>	IP: tbd RAM: 3.75 GB CPU: 1 vCPU 2.0 Ghz STORAGE: 20 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: mysql community server version 8	IP: tbd RAM: 3.75 GB CPU: 1 vCPU 2.0 Ghz STORAGE: 20 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: mysql community server version 8	IP: tbd RAM: 3.75 GB CPU: 1 vCPU 2.0 Ghz STORAGE: 20 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: mysql community server version 8	IP: tbd RAM: 3.75 GB CPU: 1 vCPU 2.0 Ghz STORAGE: 20 GB OS: Ubuntu 18.04.3 LTS SOFTWARE: mysql community server version 8	IP: tbd RAM: 3.75 GB CPU: 1vCPU 2.0 Ghz STORAGE: 300 GB OS: Windows 10

