MultiSoftware Enterprise:

A Cloud Solution

ΜΑΡΙΤΑ ΚΩΝΣΤΑΝΤΙΝΑ

ΜΠΟΥΛΟΥΤΣΟΣ ΒΗΣΣΑΡΙΩΝ

ΣΑΛΔΑΡΗ ΚΡΥΣΤΑΛΙΑ

ΤΑΣΙΟΥΔΗΣ ΑΝΤΩΝΙΟΣ

ΦΛΟΥΡΗ ΧΡΥΣΑΝΘΗ

Microsoft Entra ID
Cloud identity Hub

Definition:

Microsoft Entra ID (formerly Azure AD) is a cloud-based identity and access management (IAM) service that secures access to company resources

Key Capabilities

Authentication:

MFA, SSO, passwordless

User Management:

Employees, admins, external guests

Conditional Access:

Context-aware security policies

Name		Type
log-multisoft-monitor	···	Log Analytics workspac
multisoftstorage	···	Storage account
App Failures Alert	···	Log search alert rule
High DB Response Time	···	Log search alert rule
multisoftenterprise	···	Application Insights
multisoftserver	···	SQL server
multisoftdb	···	SQL database
multisoftenterprise	···	Resource group
multisoftenterpr-id-a991	···	Managed Identity
Azure for Students	···	Subscription

Implementation Process

User Setup

- **Create employee/admin accounts**
- **Assign licenses (Office 365)**

Device Management

- **Windows Hello for laptops**
- **Azure AD join settings**

Security Policies

- **Conditional Access:**
  - ➢ **MFA for external access**
  - ➢ **Always MFA for admins**
- **Trusted locations (office IPs)**

Access Control

- **RBAC roles:**
  - ➢ **Developers: Read-only**
  - ➢ **Admins: Full access**

Ongoing Management

Self-Service Password Reset (SSPR)

- **Empower users to reset passwords securely without IT help**
- **Supports MFA verification (phone, email, security questions)**
- **Reduces helpdesk tickets by 50%+**

Alert Configuration

- Real-time threat detection:
  - **Suspicious sign-ins (unusual locations/ devices)**
  - **Impossible travel alerts (logins from distant locations in short time)**

- Risk-based policies:
  - **Automatically block high-risk activities**
  - **Require MFA for medium-risk events**

Regular Reviews

- Audit logs:
  - **Track admin actions (who changed what, and when)**
  - **Export logs for compliance (GDPR, HIPAA, etc.)**

- Sign-in analytics:
  - **Identify failed login patterns (potential attacks)**
  - **Monitor device health (outdated OS/unpatched software)**

Networking

Firewall & DDoS Protection

- **Defence against outside attacks**
- **Data Security**

Subnets

- **Used for firewall and private endpoint creation**

Network Security Group

- **For use with our Web App**

MultisoftNet
Virtual network

MultisoftNSG
Network security group

Multisoft
Private endpoint
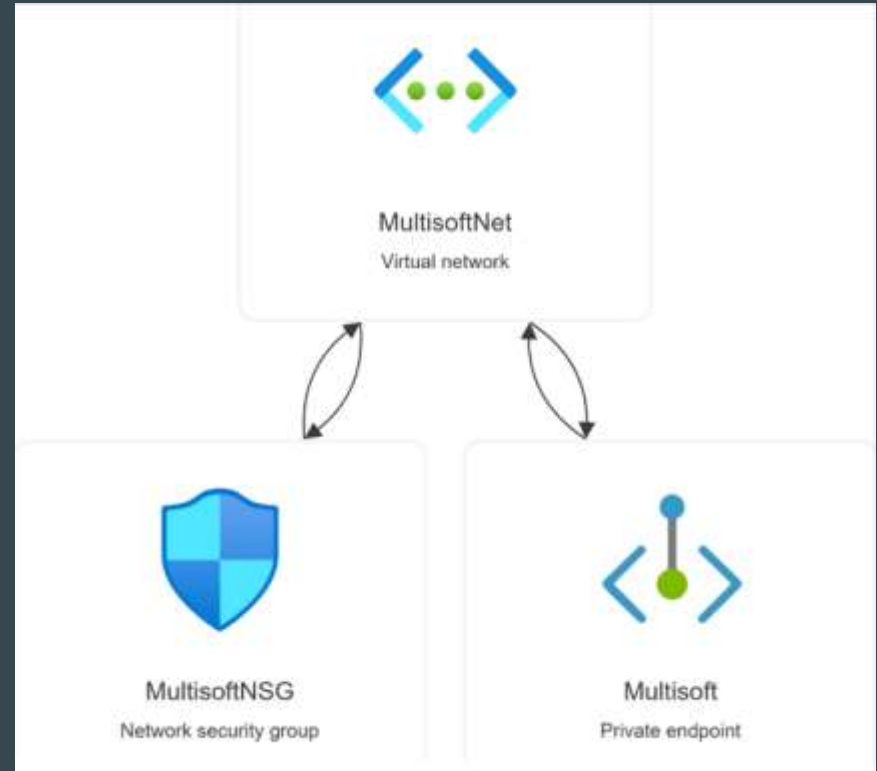
Azure SQL Database ☁️

Overview

- Used to store structured data for the company's internal operations.

- Supports approx. 2,000 read and 500 write operations per day.

- Single database deployment model for isolation and manageability.

- vCore-based purchasing model.

- Provides built-in high availability, automatic backups, and scalability.

Security & Compliance

- Data is encrypted at rest with Transparent Data Encryption (TDE).

- Automatic backups enabled with point-in-time restore.

- Access secured via firewall rules and Azure Active Directory authentication.

- Supports audit logging for compliance tracking.

- Database stored in North Europe to meet data residency requirements.

Azure SQL Database

Cost & Management

- **Resource tagged for internal billing separation from other company resources.**

- **Monitored using Azure Monitor, Log Analytics, and Application Insights.**

- **Alerts configured for high CPU usage, slow queries, and connectivity issues.**

- **Scaling and performance tuning handled via Intelligent Performance features.**

Basics

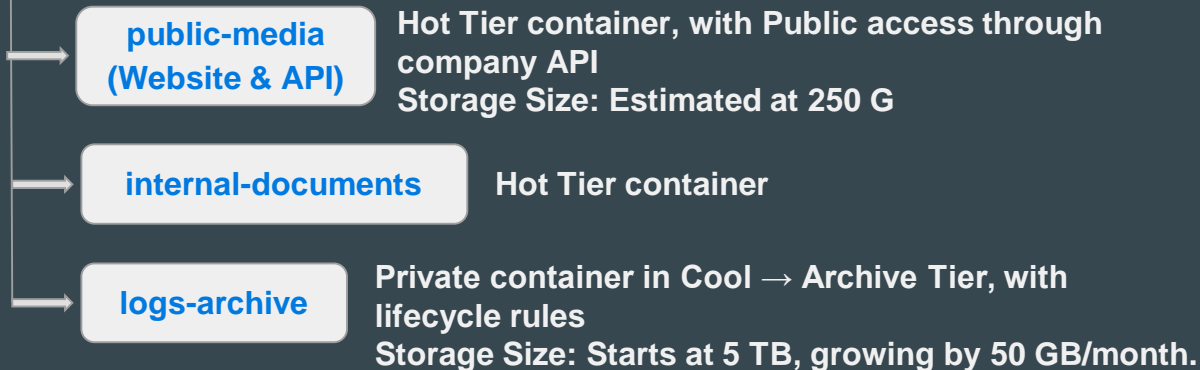|	
Subscription	Azure for Students
Resource group	multisoftenterprise
Region	North Europe
Database name	multisoftdb
Server	(new) multisoftserver
Authentication method	SQL authentication
Server admin login	chrisanthy
Compute + storage	General Purpose - Serverless: Standard-series (Gen5), 1 vCore, 32 GB storage
Backup storage redundancy	Locally-redundant backup storage

Networking

Allow Azure services and resources to access this server	No
Private endpoint	(New) Multisoft
Minimum TLS version	1.2
Connection Policy	Redirect

Blob Storage

Containers

public-media (Website & API) — Hot Tier container, with Public access through company API
Storage Size: Estimated at 250 G

internal-documents — Hot Tier container

logs-archive — Private container in Cool → Archive Tier, with lifecycle rules
Storage Size: Starts at 5 TB, growing by 50 GB/month.

Blob service	
Hierarchical namespace	Disabled
Default access tier	Hot
Blob anonymous access	Enabled
Blob soft delete	Enabled (7 days)
Container soft delete	Enabled (7 days)
Versioning	Disabled
Change feed	Disabled
NFS v3	Disabled
Allow cross-tenant replication	Disabled
Storage tasks assignments	None

Soft Delete

Enabled (7 days)

Lifecycle Rules
(logs-archive)

Archive after 90 days

Delete after 1825 days (5 years)

Automatic old data management

Monitoring Setup

Log Analytics Workspace

Workspace created: log-multisoft-monitor

- **Blob Storage logs enabled**

- **Diagnostic Settings:**

  Logs: StorageRead, StorageWrite, StorageDelete

- **Query support for troubleshooting, auditing & alerting**

Diagnostic Settings for Blob Storage

- **Blob service selection**

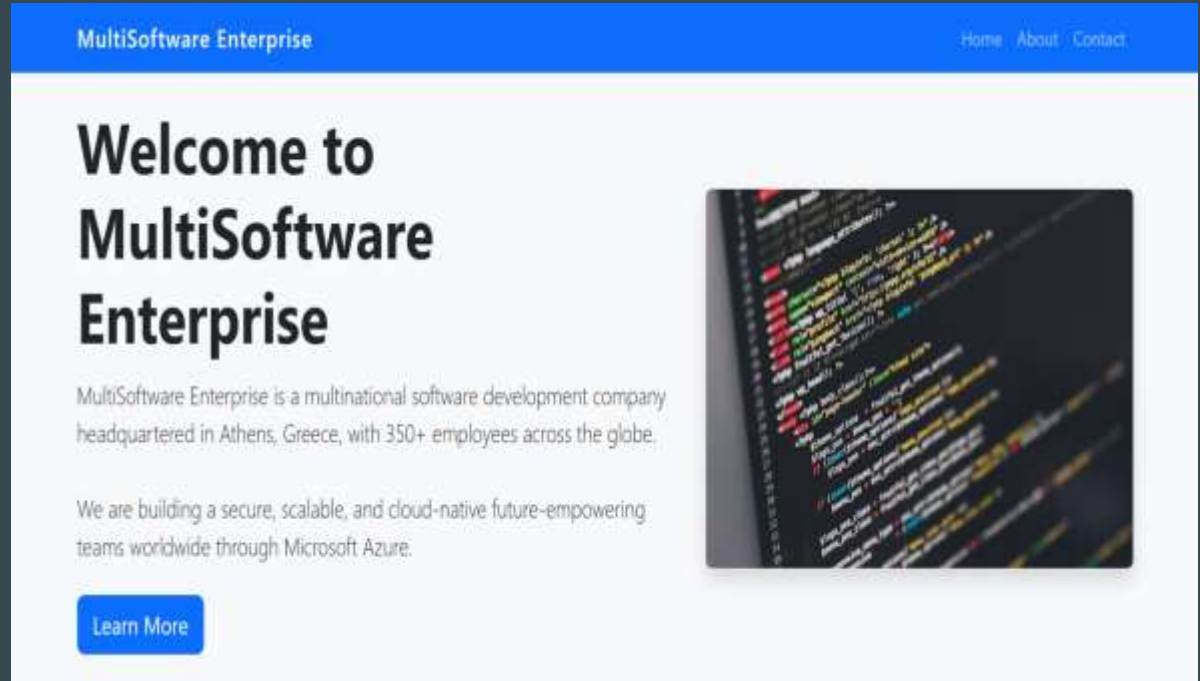- **Enable sending logs to Log Analytics Workspace**

Alert Rules

- **App failure alert (count >5)**

- **High CPU Alert (CPU>80%)**

- **High DB Response Time (avg_duration >1000msec)**

Alert rules ...

+ Create | ☰☰ Columns | ↻ Refresh | ⬇ Export to CSV | ⦾ Open query | 🗑 Delete | ▷ Enable | ☐ Disable

| 🔍 Search | Subscrip... : **Azure for Students (221b6138-49d8-4cf6-b67b-c3f...** | Target scope : **all** | Target resource type : **all** | Signal type : **all** | Severity : **all** | Status : **all** | ⊕ Add tag filter |

Name ↑↓	Condition	Severity ↑↓	Target scope	Target resource type	Signal type ↑↓
☐ App Failures Alert	count_ > 5	⚠ 2 - Warning	multisoftenterprise	Application Insights	Log search
☐ High CPU Alert	CpuPercentage > 80	⚠ 2 - Warning	ASP-multisoftenterprise-897b	App Service plan	Metrics
☐ High DB Response Time	avg_duration > 1000	⚠ 2 - Warning	multisoftenterprise	Application Insights	Log search

App Services ☁⚙

✓ **Web App Plan:**
P0v3 (RAM: 4GB, 1 CPU)

✓ **Operating System:**
Windows

✓ **Runtime Stack:**
Dotnet- v8.0

✓ **Application Insights**

✓ **Log Analytics**

MultiSoftware Enterprise

Home About Contact

Welcome to MultiSoftware Enterprise

MultiSoftware Enterprise is a multinational software development company headquartered in Athens, Greece, with 350+ employees across the globe.

We are building a secure, scalable, and cloud-native future-empowering teams worldwide through Microsoft Azure.

Learn More

https://multisoftenterprise-h5euazgudca5h0bb.northeurope-01.azurewebsites.net

API Managment Service ⚙️☁️

API Management Plan: Standard v2

- **Scales up to 10 units per instance for increased throughput and availability**

- **Provides a managed API gateway to secure, route, and monitor API traffic**

- **Supports virtual network integration, allowing secure access to backend APIs in isolated networks**

- **Can easily support 100,000 read operations and 10,000 write operations per month**
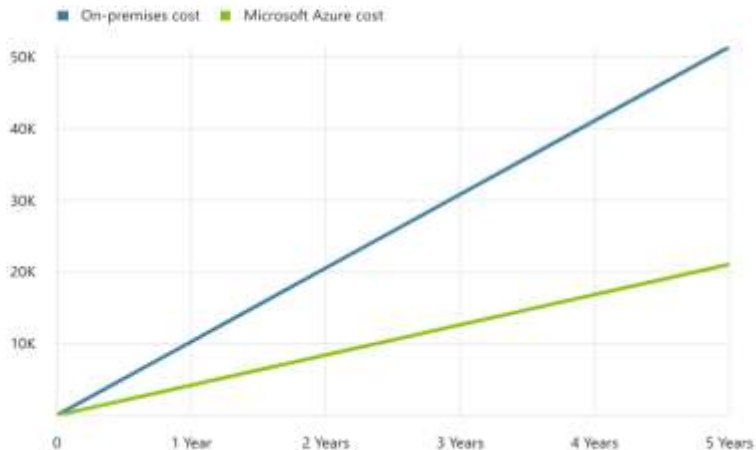
Services Diagram
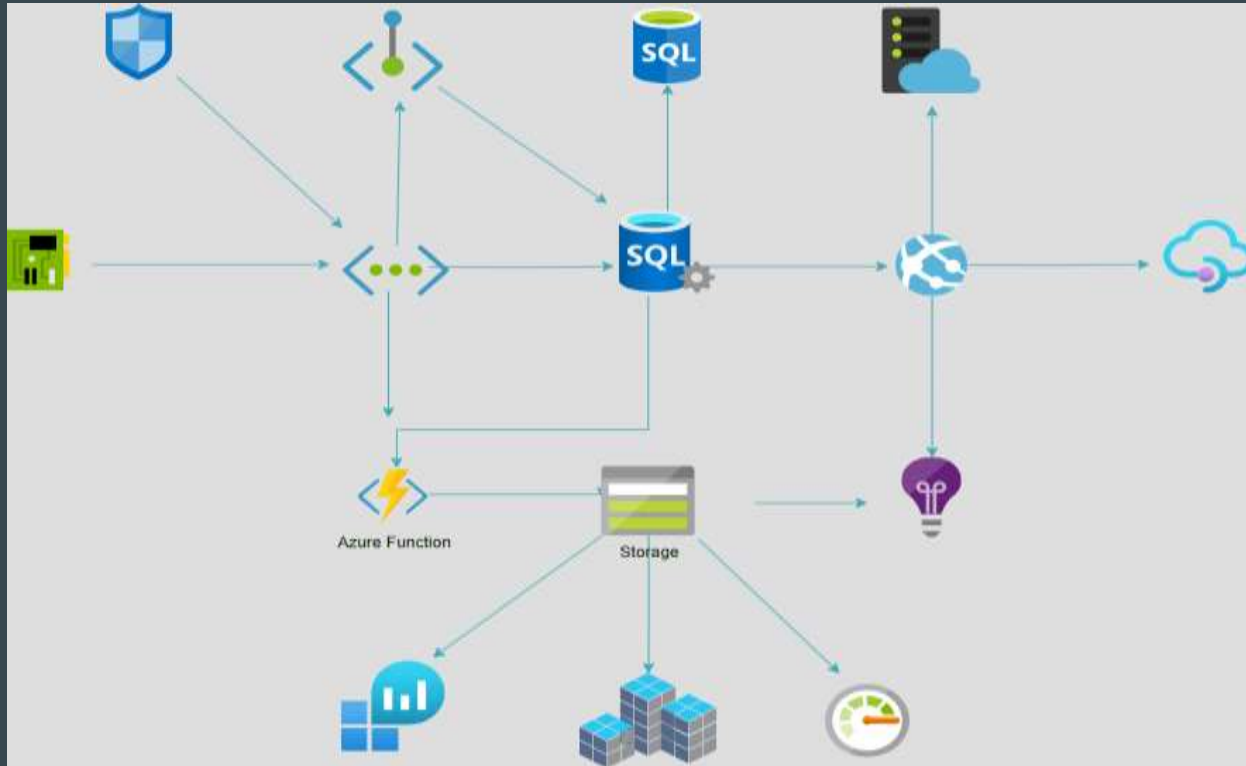
Cost Analysis

Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as much as **€30,328**

On-premises cost   Microsoft Azure cost

Total on-premises vs. Azure cost over time

Savings from running workloads in Azure accrue over time. The following shows how those savings add up over years.

50K

40K

30K

20K

10K

0   1 Year   2 Years   3 Years   4 Years   5 Years

Thank you
for your attention!