

|                                     |                                                                          |
|-------------------------------------|--------------------------------------------------------------------------|
| <b>School: CLOUDBOOSTA</b>          | <b>Course: Cloud Computing &amp; DevOps</b>                              |
| <b>Name: AKOSA SAMUEL ONYEJEKWE</b> | <b>Module: Azure App Service</b>                                         |
|                                     | <b>Class 5: Assignment 2 of 3_<br/>Secure App Service with Key Vault</b> |
| <b>Student No: CBALC0168</b>        | <b>Issue Date: March 22, 2026</b>                                        |

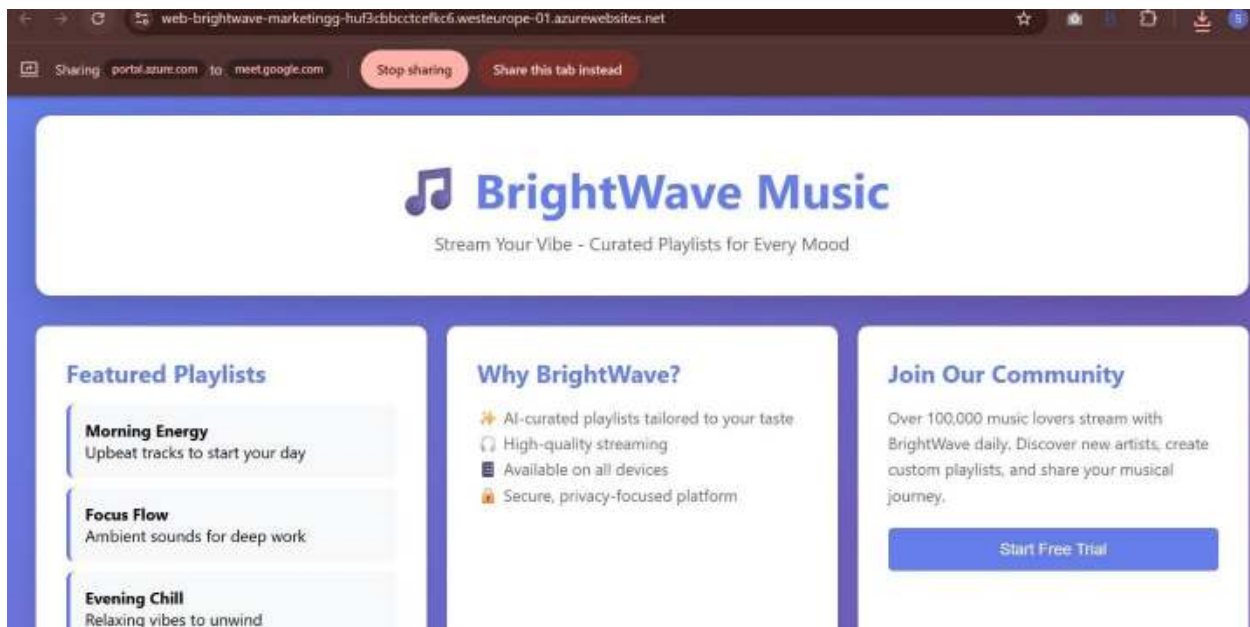
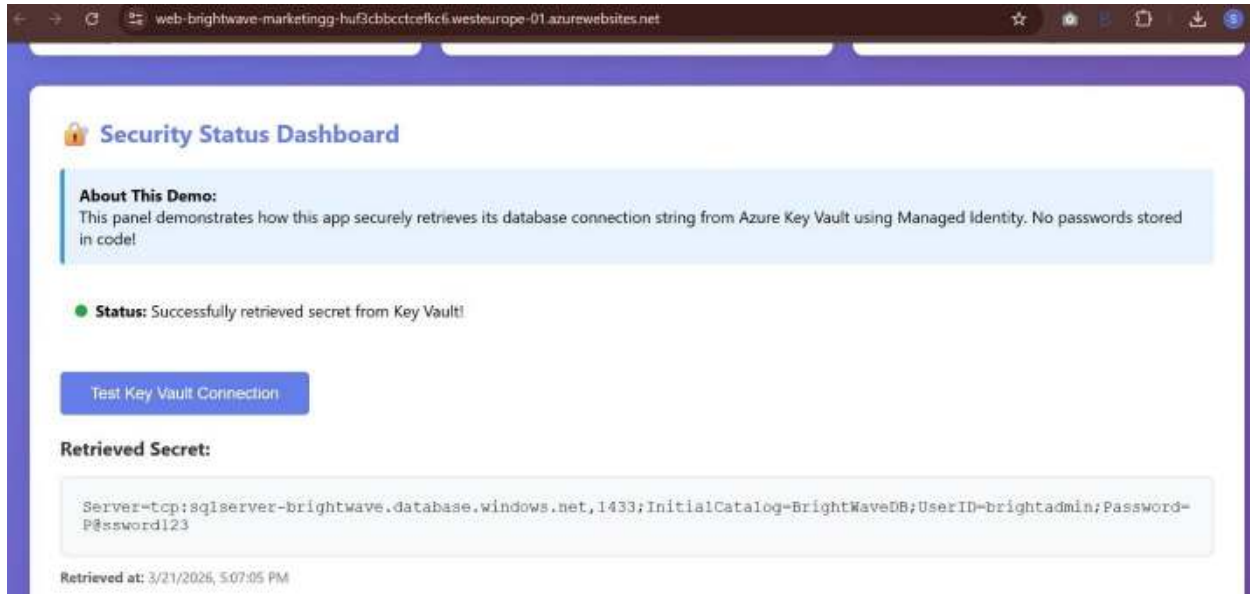
### Tasks:

1. Create an App Service to host a working marketing website.
2. Enable a system-assigned managed identity for the app.
3. Create a Key Vault and store a database connection string secret.
4. Grant the app identity permission to read the secret via RBAC.
5. Deploy a real web application that retrieves secrets from Key Vault.

### Goal:

- Secrets are stored in Azure Key Vault, not in application code.
- The application uses Managed Identity instead of passwords to access secrets.
- RBAC controls which users or services can read the secrets.

## Result:



What is built here is a secure cloud-native application where:

- Secrets are removed from code and managed centrally
- Access is controlled via identity, not passwords

## Secrets live in Key Vault (NOT in code)

The following was done in this demo:

- Created Azure Key Vault
- Stored:
  - Database connection string

This matters because:

- No secrets in:
  - GitHub
  - App code
  - Config files

This means that if someone steals our code, they still cannot access your database

## Managed Identity replaces passwords

The System-assigned Managed Identity on App Service was enabled.

This means that:

- Azure automatically creates an identity for our app
- That identity is:
  - Trusted by Azure
  - Authenticated via Entra ID

## RBAC controls access (authorization layer)

Here, we:

- Assigned role:  
Key Vault Secrets User
- To:

- Our App Service identity

**What this enforces:**

- Only this app can:
  - Read secrets
- Others:
  - Cannot access

This is least privilege security

## Runtime flow (how it works in production)

**When user hits our app:**

1. Request → App Service
2. App needs DB connection
3. App calls → Key Vault
4. Azure checks:
  - “Does this identity have permission?”
5. If YES → returns secret
6. App connects to DB

## Architecture Summary

User → App Service → Managed Identity → Key Vault → Secret → Database

**We have achieved:**

### 1. Security

- No hardcoded secrets
- Identity-based access

### 2. Scalability

- Works across multiple instances automatically

### 3. Compliance

- Auditable (who accessed what)

### 4. Maintainability

- Rotate secrets without changing code

Secrets are securely stored in Azure Key Vault and accessed at runtime using Managed Identity, with RBAC enforcing controlled, identity-based access instead of hardcoded credentials.

Screenshots follow.

Home > App Services

# Create Web App



- Basics
- Database
- Deployment
- Networking
- Monitor + secure
- Tags
- Review + create

✔ Try Managed Instances (preview) on Azure App Service: a new option that delivers the platform benefits you rely on today, plus added features and flexibility to help you modernize applications seamlessly. [Learn More](#)

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)

## Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ Azure subscription 1

Resource Group \* ⓘ rg-azure-labs

Create new

## Instance Details

Name web-brightwave-marketingg ✓  
-huf3cbbctcefk6.westeurope-01.azurewebsites.net

☒ Secure unique default hostname on. [More about this update](#)

Publish \* ☒ Code ☐ Container

Runtime stack \* Node 20 LTS  
⚠ Node 20 LTS will reach EOL on 4/30/2026 [Learn More](#)

Operating System \* ☒ Linux ☐ Windows

Region \* West Europe

ⓘ Not finding your App Service Plan? Try a different region or select your App Service Environment.

## Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (West Europe) \* ⓘ (New) ASP-rgazurelabs-acc1 ✓  
Create new

Pricing plan Basic B1 (100 total ACU, 1.75 GB memory, 1 vCPU) ✓  
[Explore pricing plans](#)

## Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. Your initial instance count will be set based on your zone redundancy configuration. To ensure you'll be able to enable zone redundancy at any point in the lifecycle of your app, enable zone redundancy now. You can decrease the instance count after the App Service plan is created. [Learn more](#)

Zone redundancy

☐ Enabled: Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be two.

☒ Disabled: Your App Service plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

Create Web App ...

Basics Database Deployment Networking Monitor + secure Tags Review + create

## Summary



**Web App**  
by Microsoft

Basic (B1) sku

Estimated price – 13.14 USD/Month

### Details

|                                |                                      |
|--------------------------------|--------------------------------------|
| Subscription                   | 7374fafb-9216-4a04-b0f3-474aa5289f1b |
| Resource Group                 | rg-azure-labs                        |
| Name                           | web-brightwave-marketinggg           |
| Secure unique default hostname | Enabled                              |
| Publish                        | Code                                 |
| Runtime stack                  | Node 20 LTS                          |

App Service Plan (New)

|                  |                        |
|------------------|------------------------|
| Name             | ASP rgazurerelabs acc4 |
| Operating System | Linux                  |
| Region           | West Europe            |
| SKU              | Basic                  |
| Size             | Small                  |
| ACU              | 100 total ACU          |
| Memory           | 1.75 GB memory         |

Monitor + secure (New)

|                      |                           |
|----------------------|---------------------------|
| Application Insights | Enabled                   |
| Name                 | web-brightwave-marketingg |
| Region               | West Europe               |

## Deployment

|                       |                                         |
|-----------------------|-----------------------------------------|
| Basic authentication  | Enabled                                 |
| Continuous deployment | Not enabled / Set up after app creation |

Create

[← Previous](#)

Next >

[Download a template for automation](#)

✔ Your deployment is complete

Deployment name : Microsoft.Web-WebApp-Portal... Start time : 3/21/2026, 4:00:48 PM  
Subscription : Azure subscription 1 Correlation ID : 005373be-44a1-40be-b5d5-f5b...  
Resource group : rg-azure-labs

Deployment details

Next steps

[Go to resource](#)

Add or remove favorites by pressing **C**+**L**+**Shift**+**F**.

**S**

### Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

[Set up cost alerts >](#)



Microsoft Defender for Cloud

## Secure your apps and infrastructure

[Go to Microsoft Defender for Cloud >](#)

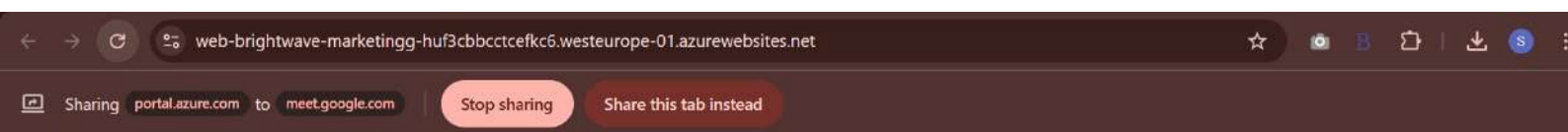
Free Microsoft tutorials

[Start learning today >](#)

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

[Find an Azure expert >](#)



## Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



## Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



 Built with NodeJS

Haven't deployed yet?  
Use the deployment center  
to publish code or set up  
continuous deployment.

[Deployment center](#)

Starting a new web site?  
Follow our Quickstart guide  
to get a web app ready  
quickly.

[Quickstart](#)

Home > Microsoft Azure

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Web App

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Development Tools

API

Monitoring

Automation

Support + troubleshooting

Add or remove favorites by pressing Ctrl+Shift+V

## Add/Edit application setting

Name \*

SCM DO BUILD DURING DEPLOYMENT



Value

\*\*\*\*

Deployment slot setting

☐

Apply Discard

Apply

Apply

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Add or remove favorites by pressing...

## Add/Edit application setting

Name \*

WEBSITE NODE DEFAULT VERSION

Value

...

Deployment slot setting

☐

Apply

Discard

Apply

Apply

 web-brightwave-marketingg | Environment variables ☆ ...

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+ Add

Refresh

Show values

Advanced edit

Pull reference values

| Name                                  | Value      | Deployment slot setting | Source      | Delete                                                                              |
|---------------------------------------|------------|-------------------------|-------------|-------------------------------------------------------------------------------------|
| APPLICATIONINSIGHTS_CONNECTION...     | Show value |                         | App Service |  |
| ApplicationInsightsAgent_EXTENSION... | Show value |                         | App Service |  |
| SCM_DO_BUILD_DURING_DEPLOYME...       | Show value |                         | App Service |  |
| WEBSITE_NODE_DEFAULT_VERSION          | Show value |                         | App Service |  |

Apply

Discard

Send us your feedback

-  Environment variables
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-  Backups
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Add or remove favorites by pressing Ctrl+Shift+F

 web-brightwave-marketingg | Environment variables ☆ ...

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- Support + troubleshooting

Save changes

Your app may restart if you are updating app settings. Are you sure you want to continue?

Confirm Cancel

|                                 |            |             |  |
|---------------------------------|------------|-------------|--|
| SCM_DO_BUILD_DURING_DEPLOYME... | Show value | App Service |  |
| WEBSITE_NODE_DEFAULT_VERSION    | Show value | App Service |  |

Apply Discard

Send us your feedback



# BrightWave Music

Stream Your Vibe - Curated Playlists for Every Mood

## Featured Playlists

### Morning Energy

Upbeat tracks to start your day

### Focus Flow

Ambient sounds for deep work

### Evening Chill

Relaxing vibes to unwind

## Why BrightWave?

- 🌟 AI-curated playlists tailored to your taste
- 🎧 High-quality streaming
- 📱 Available on all devices
- 🔒 Secure, privacy-focused platform

## Join Our Community

Over 100,000 music lovers stream with BrightWave daily. Discover new artists, create custom playlists, and share your musical journey.

[Start Free Trial](#)

## Security Status Dashboard

### About This Demo:

This panel demonstrates how this app securely retrieves its database connection string from Azure Key Vault using Managed Identity. No passwords stored in code!

● **Status:** Ready to test Key Vault connection

[Test Key Vault Connection](#)

# BrightWave Music

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Over 100,000 music lovers stream with BrightWave daily. Discover new artists, create custom playlists, and share your musical journey.

Start Free Trial

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > App Services > web-brightwave-marketingg

App Services

Default Directory (samuelonyejekwe852@gmail.onm...

+ Create

You are viewing a new version of Browse experience. Click here to access the old experience.

Name 1

web-brightwave-marketingg

Showing 1 - 1 of 1. Display count: auto

web-brightwave-marketingg | Identity

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System assigned

User assigned

A system assigned managed identity is restricted to one per resource and is tied to the lifecycle of this resource. You can grant permissions to the managed identity by using Azure role-based access control (Azure RBAC). The managed identity is authenticated with Microsoft Entra ID, so you don't have to store any credentials in code.

Save

Discard

Refresh

Troubleshoot

Got feedback?

Status

Off

On

Microsoft Azure

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📧 🗨 ⚙️ ⓘ 🔍

👤 samuelonyejekwe852@...  
DEFAULT DIRECTORY (SAMUELO...

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Default Directory (samuelonyejekwe852gmail.onm...

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☐ web-brightwave-marketingg

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web-brightwave-marketingg | Identity ☆ ⋮

Web App

Enable system assigned managed identity

'web-brightwave-marketingg' will be registered with Microsoft Entra ID. Once it is registered, 'web-brightwave-marketingg' can be granted permissions to access resources protected by Microsoft Entra ID. Do you want to enable the system assigned managed identity for 'web-brightwave-marketingg'?

Yes

No

Status ⓘ

Off

On

Microsoft Azure

Search resources, services, and docs (G+)

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Samuelonyejekwe852@gmail.com

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Home > App Services > web-brightwave-marketingg

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Save

Discard

Refresh

Troubleshoot

Got feedback?

Status

Off On

Object (principal) ID

306c9de4-3d0c-4627-82bc-a10a2ddc2d56

Permissions

Azure role assignments

Home > Key vaults

## Create a key vault



Basics Access configuration Networking Tags Review + create

Azure Key Vault is a cloud service used to manage keys, secrets, and certificates. Key Vault eliminates the need for developers to store security information in their code. It allows you to centralize the storage of your application secrets which greatly reduces the chances that secrets may be leaked. Key Vault also allows you to securely store secrets and keys backed by Hardware Security Modules or HSMs. The HSMs used are Federal Information Processing Standards (FIPS) 140-2 Level 2 validated. In addition, key vault provides logs of all access and usage attempts of your secrets so you have a complete audit trail for compliance.

### Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* Azure subscription 1

Resource group \* rg-azure-labs

[Create new](#)

### Instance details

Key vault name \* kv-brightwave-secrets

Region \* West Europe

Pricing tier \* Standard

### Recovery options

Soft delete protection will automatically be enabled on this key vault. This feature allows you to recover or permanently delete a key vault and secrets for the duration of the retention period. This protection applies to the key vault and the secrets stored within the key vault.

To enforce a mandatory retention period and prevent the permanent deletion of key vaults or secrets prior to the retention period elapsing, you can turn on purge protection. When purge protection is enabled, secrets cannot be purged by users or by Microsoft.

Soft-delete Enabled

Days to retain deleted vaults \* 90

Purge protection ☒ Disable purge protection (allow key vault and objects to be purged during retention period) ☐ Enable purge protection (enforce a mandatory retention period for deleted vaults and vault objects)

Previous Next Review + create

 Give feedback







### Add role assignment

\*\*\*

X

|      |         |            |                 |
|------|---------|------------|-----------------|
| Role | Members | Conditions | Review + assign |
|------|---------|------------|-----------------|

|               |                           |
|---------------|---------------------------|
| Selected role | Key Vault Secrets Officer |
|---------------|---------------------------|

Assign access to  User, group, or service principal

☐ Managed identity

Members [+ Select members](#)

| Name                    | Object ID                            | Type                                                                                     |
|-------------------------|--------------------------------------|------------------------------------------------------------------------------------------|
| Samuel Onyejekwe(Guest) | 208b00ea-db5a-4b6d-b86d-7abccda7b... | User  |

### Description

Optional

Review + assign

[Previous](#)

Next

 Feedback

 **Create a secret** ...

Upload options

Manual

Name \*

DbConnectionString

Secret value \*

Content type (optional)

Set activation date

☐

Set expiration date

☐

Enabled

Yes

No

Tags

0 tags

Create

Cancel

Home » kv-brightwave-secretss

## kv-brightwave-secretss | Secrets ☆ ...

Key vault.

Search

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- ✕ Diagnose and solve problems

- Access policies

 Resource visualizer

## ⚡ Events

▼ Objects

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 Secrets

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> Help

Add or remove favorites by pressing **Ctrl + Shift + F**

[+ Generate/import](#) [🔄 Refresh](#) [↶ Restore Backup](#) [🔧 Manage deleted secrets](#) [</> View sample code](#)

 The secret 'DbConnectionString' has been successfully created.

| Name               | Type | Status    | Expiration date |
|--------------------|------|-----------|-----------------|
| DbConnectionString |      | ✓ Enabled |                 |

 Give feedback

 Feedback

### Add role assignment

Role   **Members**   Conditions   Review + assign

|               |                        |
|---------------|------------------------|
| Selected role | Key Vault Secrets User |
|---------------|------------------------|

Assign access to

- ☐ User, group, or service principal
- ☒ Managed identity

Members [+ Select members](#)

| Name                | Object ID | Type |
|---------------------|-----------|------|
| No members selected |           |      |

| Description | Optional |
|-------------|----------|
|-------------|----------|

### Select managed identities

 Some results might be hidden due to your ABAC condition.

Subscription <sup>4</sup>

Azure subscription 1

Managed identity

App Service (1) 

 Search by name

Managed identity

App Service (1) 

 Search by name

Selected members:

web-brightwave-marketingg  
/subscriptions/7374fafo-9216-4a04-b0f3-474aa5289f1b/resourceGroups/r... Remove

Select

Close

Feedback

Review • assign

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Home » kv-brightwave-secretss | Access control (IAM)

### Add role assignment

X

|             |                                                                                                                                            |                                      |                        |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------|
| Role        | Members                                                                                                                                    | Conditions                           | <u>Review + assign</u> |
| Role        | Key Vault Secrets User                                                                                                                     |                                      |                        |
| Scope       | /subscriptions/7374fab8-9216-4a04-b0f3-474aa5289f1b/resourceGroups/rg-azure-labs/providers/Microsoft.KeyVault/vaults/kv-brightwave-secrets |                                      |                        |
| Members     | Name                                                                                                                                       | Object ID                            | Type                   |
|             | web-brightwave-marketingg                                                                                                                  | 306c9de4-3d0c-4627-82bc-a10a2ddc2d56 | App Service ⓘ          |
| Description | No description                                                                                                                             |                                      |                        |

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

8

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Samuel Onyejekwe

Default Directory (Samuel Onyejekwe)

Home > App Services

App Services

Default Directory (samuel onyejekwe)

Create

You are viewing a new experience. Click here to learn more.

Name ↑

web-bright

Showing 1 - 1 of 1 items

Add/Edit application setting

Name \*

KEY\_VAULT\_NAME

Value

\*\*\*\*\*

Deployment slot setting

☐

Apply

Discard

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Default Directory (samuelonyejekwe852@gmail.com)

Default Directory (SAMUELO...)

Home

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web-brightwave-marketingg

App Services

Default Directory (samuelonyejekwe852@gmail.com)

Create

You are viewing a new version of Azure experience. Click here to access the old experience.

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Add to remove favorites by pressing CTRL+SHIFT+F

Save changes

Your app may restart if you are updating app settings. Are you sure you want to continue?

Confirm

Cancel

KEY\_VAULT\_NAME

Show value

SCM\_DO\_BUILD\_DURING\_DEP...

Show value

WEBSITE\_NODE\_DEFAULT\_VER...

Show value

Apply

Discard

Send us your feedback

## Security Status Dashboard

### About This Demo:

This panel demonstrates how this app securely retrieves its database connection string from Azure Key Vault using Managed Identity. No passwords stored in code!

● **Status:** Successfully retrieved secret from Key Vault!

Test Key Vault Connection

### Retrieved Secret:

```
Server=tcp:sqlserver-brightwave.database.windows.net,1433;InitialCatalog=BrightWaveDB;UserID=brightadmin;Password=P@ssword123
```

Retrieved at: 3/21/2026, 5:07:05 PM

Home

App Services

★

...

Identify apps with high CPU issues

Identify web apps with failures

Diagnose performance for web apps

✕

Default Directory (samuelonyejekwe852@gmail.com)

+

 Create

🗑

 Manage Deleted Apps

🔍

 Manage view

🔄

 Refresh

📄

 Export to CSV

🔗

 Open query

🏷

 Assign tags

▶

 Start

🔄

 Restart

⏹

 Stop

...

📊

 Group by none

Confirm stop

Do you want to stop all selected resources? This operation will affect 1 resource.

Yes

No

| <div>✓</div> | Name                                                                                                                   | Status  | Location    | Pricing Tier | App Service Plan  | Subscription         | App Type |
|--------------|------------------------------------------------------------------------------------------------------------------------|---------|-------------|--------------|-------------------|----------------------|----------|
| <div>✓</div> | <div> web-brightwave-marketingg</div> | Running | West Europe | Basic        | ASP (gazurelabs-a | Azure subscription 1 | Web App  |

Delete Resources

The selected resources along with their related resources and contents will be permanently deleted. If you are unsure of the selected resource dependencies, navigate to the individual resource page to perform the delete operation. More details of the resource dependencies are available in the manage experience.

1 resources being deleted across 1 subscriptions, 1 resource groups

| Name                      | Resource type | Subscription         | Resource Group |                        |
|---------------------------|---------------|----------------------|----------------|------------------------|
| web brightwave-marketingg | App Service   | Azure subscription 1 | rg-azure-labs  | <a href="#">Remove</a> |

Enter "delete" to confirm deletion \*

delete

Delete

Cancel

App Service plans << 

[+ Create](#) [Manage view](#) [...](#)

① [You are viewing a new version of Browse experience. Click here to access the old experience.](#)

Name ↑

☐ ASP-rgazurelabs-acc4

Showing 1 - 1 of 1. Display count:

ASP-rgazurelabs-acc4 Linux plan

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### Delete App Service plan

Are you sure you want to delete 'ASP-rgazurelabs-acc4'?

Yes

No

Location  
West Europe

Subscription (move)  
Azure subscription 1

Subscription ID  
7374fafb-9216-4a04-b0f3-474aa5289f1b

Tags ([edit](#))  
[Add tags](#)

App(s) / Slots  
0 / 0

Operating System  
Linux

Zone redundant  
Disabled

CPU Percentage

Memory Percentage

Data In

90%

90%

6kB

Vault URI  
https://kv-brightwave-secrets.vault.azure.net/  
Sku (Pricing tier)  
Standard  
Directory ID  
cd547ca9-f5d6-4244-a9b9-1166ebd7a9a1  
Directory Name  
Default Directory  
Soft-delete  
Enabled  
Purge protection  
Disabled

Microsoft Azure

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What is the overall service API latency for this Key Vault? +2

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Key vaults

Default Directory (samuelonyejekwe852@gmail.onm...

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kv-brightwave-secrets

kv-brightwave-secrets

Key vault

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7374fab-9216-4a04

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Vault URI

https://kv-brightwave-secrets.vault.azure.net/

Delete a key vault

This action will move the key vault and its contents (keys, secrets, certificates, etc.) to a soft deleted state. This vault will remain recoverable for the retention period of 90 days.

Learn how to manage soft deleted key vaults [here](#).

kv-brightwave-secrets

Delete

Cancel