

App service integration with keyvault

Pre-requisite:

- Key-vault with at least one secret
- Node code (https://github.com/Praddy2009/node-keyvult_code)

1) Create a new app service with monitoring enabled

2) Go to deployment centre and enable local git. Get the *Git Clone Uri*

The screenshot shows the 'Settings' tab in the Azure App Service deployment center. At the top, there's a toolbar with 'Save', 'Discard', 'Browse', 'Manage publish profile', 'Sync', and 'Leave Feedback'. Below this, there are tabs for 'Settings', 'Logs', and 'FTP credentials'. A blue information banner states: 'You're now in the production slot, which is not recommended for setting up CI/CD. [Learn more](#)'. The main section is titled 'Deploy and build code from your preferred source and build provider. [Learn more](#)'. Under the 'Source' label, there's a dropdown menu with 'Local Git' selected, marked with a circled '1'. Below the dropdown, it says 'Building with App Service Build Service.' The 'Local Git' section explains that Local Git allows hosting a simple Git server on the App Service plan for quick CI/CD setup, with a 'Learn more' link. At the bottom, there are two fields: 'Repository' with the text 'Your local git repository url will be generated upon completion.' and 'Branch' with the value 'master'.

2 Save Discard Browse Manage publish profile Sync Leave Feedback

Settings * Logs FTP credentials

i You're now in the production slot, which is not recommended for setting up CI/CD. [Learn more](#) X

Deploy and build code from your preferred source and build provider. [Learn more](#)

Source * **1** Local Git

Building with App Service Build Service.

Local Git

Local Git allows you to host a simple Git server for your app on your App Service plan. This can be used to quickly setup a CI/CD pipeline. [Learn more](#)

Repository Your local git repository url will be generated upon completion.

Branch master

Make Local Git credentials

testing-nod | Deployment Center ☆ ...

App Service

Search (Ctrl+/)

6 Save Discard Browse Manage publish profile Sync Leave Feedback

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Microsoft Defender for Cloud
Events (preview)

Deployment

Quickstart
Deployment slots
Deployment Center 1

Settings

Configuration
Authentication
Application Insights
Identity
Backups
Custom domains
TLS/SSL settings
Certificates (preview)
Networking
Scale up (App Service plan)
Scale out (App Service plan)
WebJobs
Push
MySQL In App
Service Connector

Settings Logs Local Git/FTP credentials 2

App Service supports multiple technologies to access, publish and modify the content of your app. FTPS credentials be scoped to the application or the user.

FTPS endpoint

ftps://waws-prod-dm1-137.ftp.azurewebsites.windows.net/site/wwwroot

Git Clone Uri

https://testing-nod.scm.azurewebsites.net:443/testing-nod.git

Application scope

Application scope credentials are auto-generated and provide access only to this specific app or deployment slot. They can be used with FTPS, Local Git and WebDeploy. They cannot be configured manually, but can be reset anytime. [Learn more](#)

Username

testing-nod\testing-nod

Password

Reset

User scope

User scope credentials are defined by you, the user, and can be used with all the apps to which you have access. The credentials can be used with FTPS, Local Git and WebDeploy. Authenticating to an FTPS endpoint using user-level credentials requires a username in the following format: 'testing-nod\praddy2009'. Authenticating with Git requires the username 'praddy2009' defined below. [Learn more](#)

Username

praddy2009 3

Password

4

Confirm Password

5

Sync your code with it

'git remote add azure <git-clone-uri>'

```
CRB+PVE097@MMD5CG1110XH2 MINGW64 /c/Experiment (master)
$ git remote add azure https://testing-nod.scm.azurewebsites.net:443/testing-nod.git
```

git add .

git commit -m "some-comment"

git push azure

3) Enable App Service logs for understanding the request response

testing-nod | App Service logs ...

App Service

Search (Ctrl+/) Save Discard Send us your feedback

App Service Editor (Preview)

Extensions

API

- API Management
- API definition
- CORS

Monitoring

- Alerts
- Metrics
- Logs
- Advisor recommendations
- Health check
- Diagnostic settings
- App Service logs** 1
- Log stream
- Process explorer

Automation

- Tasks (preview)
- Export template

Application logging (Filesystem) ①

Off On 2

Level

Error

Application logging (Blob) ①

Off On

Web server logging ①

Off Storage File System 3

Quota (MB) * ①

35

Retention Period (Days) ①

1 4

Detailed error messages ①

Off On 5

Failed request tracing ①

Off On 7

Download logs

FTP/deployment username

FTP

FTPS

4) Open log stream blade and make a request and you'll be greeted with

```
Application has thrown an uncaught exception and is
terminated:AggregateAuthenticationError: ChainedTokenCredential authentication
failed.CredentialUnavailableError: EnvironmentCredential is unavailable. No underlying
credential could be used. To troubleshoot, visit
https://aka.ms/azsdk/js/identity/environmentcredential/troubleshoot.CredentialUnavailable
Error: ManagedIdentityCredential: Authentication failed. Message connect EACCES
169.254.169.254:80CredentialUnavailableError: No implementation of
'VisualStudioCodeCredential' is available. You must install the identity-vscode plugin
package ('npm install --save-dev @azure/identity-vscode') and enable it by importing
'useIdentityPlugin' from '@azure/identity' and calling 'useIdentityPlugin(vsCodePlugin)'
before creating a 'visualStudioCodeCredential'.CredentialUnavailableError: Azure CLI
could not be found. Please visit https://aka.ms/azure-cli for installation instructions
and then, once installed, authenticate to your Azure account using 'az
login'.CredentialUnavailableError: Error: Import-Module : The specified module
'Az.Accounts' with version '2.2.0' wasnot loaded because no valid module file was found
in any module directory.At line:1 char:1+ Import-Module Az.Accounts -MinimumVersion 2.2.0
-PassThru+ ~~~~~+ CategoryInfo
: ResourceUnavailable: (Az.Accounts:String) [Import-Module], FileNotFoundException+
FullyQualifiedErrorId :
Modules_ModulewithVersionNotFound,Microsoft.PowerShell.Commands.ImportModuleCommand
```

5) Enable System Assigned Identity and copy the Object (principle) ID

Home > testing-nod

testing-nod | Identity

App Service

Search (Ctrl+/)

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Custom domains

System assigned

User assigned

A system assigned managed identity is restricted to one per resource and permissions to the managed identity by using Azure role-based access control authenticated with Azure AD, so you don't have to store any credentials in your code.

3 Save Discard Refresh Got feedback?

Status ⓘ

Off On

2

6) Do Azure role Assignment

Home > testing-nod

testing-nod | Identity

App Service

Search (Ctrl+ /)

- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)

Deployment

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Settings

- Configuration
- Authentication
- Application Insights
- Identity**
- Backups

System assigned User assigned

A system assigned managed identity is restricted to one per resource and is tied to the lifecycle of this resource. Permissions to the managed identity by using Azure role-based access control (Azure RBAC). The managed identity is authenticated with Azure AD, so you don't have to store any credentials in code. [Learn more about Managed Identity](#)

Save Discard Refresh Got feedback?

Status

Off **On**

Object (principal) ID

c1992f91-9095-4b97-866e-71761f313a7c

Permissions

Azure role assignments

2

Azure role assignments

This resource is registered with Azure Active Directory. The managed identity can be configured to allow access to Azure resources. Be careful when making changes to the access settings for the managed identity because it can result in failures.

Home > testing-nod | Identity >

Azure role assignments

1

+ Add role assignment (Preview) Refresh

If this identity has role assignments, they won't be shown in the list. [Learn more](#)

Subscription *

Azure for Students

| Role | Resource Name | Resource Type | Assigned To |
|--|---------------|---------------|-------------|
| No role assignments found for the selected subscription. | | | |

Add role assignment (Preview)

Scope ⓘ

Key Vault

1

Subscription

Azure for Students

2

Resource ⓘ

testing-managed ⓘ

3

Role ⓘ

Key Vault Secrets User ⓘ

4

[Learn more about RBAC](#)

5

Save

Discard

7) In your keyvault Access policy blade add your principle ID

Home > testing-managed

testing-managed | Access policies ...

Key vault

Search (Ctrl+/)

Save Discard Refresh

Overview

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Access policies **1**

Networking

Security

Properties

Locks

Monitoring

Alerts

Enable Access to:

☐ Azure Virtual Machines for deployment ⓘ

☐ Azure Resource Manager for template deployment ⓘ

☐ Azure Disk Encryption for volume encryption ⓘ

Permission model

☒ Vault access policy

☐ Azure role-based access control

+ Add Access Policy **2**

Current Access Policies

| Name | Email | Key Permissions | Secret Permissions | Certificate Permissions |
|-------------|-------|-----------------|--------------------|-------------------------|
| APPLICATION | | | | |
| | | | | |
| USER | | | | |
| | | | | |

[Home](#) > [testing-managed](#) | [Access policies](#) >

Add access policy ...

Add access policy

Configure from template (optional)

Secret Management

1

Key permissions

0 selected

2

Secret permissions

Get

3

Certificate permissions

0 selected

4

Select principal *

testing-nod

Object ID: c1992f91-9095-4b97-866e-71761f313a7c

5

Authorized application ⓘ

None selected

Add

6

Then Save

And here you go

```
2022-08-16T06:24:00 No new trace in the past 4 min(s).
hello
[0mGET /ping [32m200 [0m14.276 ms - -[0m
helloPrassword:) 
```