

NetReach Azure App Service Installation Guide

Deploy NetReach in Azure App Service

Azure App Service provides the hosting environment for an Azure-based web app. You can configure App Service to retrieve the image for the web from a repository in Azure Container Registry.

Step 1: Create Resource Group

1. Go to <https://portal.azure.com> homepage.
2. Go to **Resource groups > Create**

- Subscription: ***your azure subscription***
- Resource group name: ***Name your resource group*** (e.g., *netreach-test-group*)
- Region: ***select your region***

[Home](#) > [Resource groups](#) >

Create a resource group ...

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Subscription * ⓘ

Azure subscription 1

Resource group name * ⓘ

netreach-test-group

Region * ⓘ

(US) West US 2

4. Click Next button Review and Create.

Step 2: Create Web App and Deploy NetReach from WTI Azure Container Registry

1. Go to **App Services > Create > Web App**

2. Under **Basic section**:

- Subscription: **select your Azure subscription**
- Resource Group: **Select existing resource group (e.g., netreach-test-group) or create a new one.**
- Name: **Name your Web App (e.g., NetReach-Azure)**
- Try a secure unique default hostname: **Turn off**
- Publish: **Container**
- Operating System: **Linux**
- Region: **select your region**
- Linux Plan: **select existing or create a new Linux plan**
- Pricing plan: **Refer to NetReach Requirement (e.g. Dev/Test Basic B2)**
- Zone redundancy: **use the default**

Create Web App ...

Basics Database Container Networking Monitor + secure Tags Review + create

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 *

Resource Group * [Create new](#)

Instance Details

Name [.azurewebsites.net](#)

☒ Try a secure unique default hostname. [More about this update](#)

Publish * ☐ Code ☒ Container

Operating System * ☒ Linux ☐ Windows

Region *
 [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 US 2) * [Create new](#)

Pricing plan **Basic B2** (200 total ACU, 3.5 GB memory, 2 vCPU)

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.

[Review + create](#) [< Previous](#) [Next : Database >](#)

3. Select **Container** in the top on the menu screen:

- Sidecar support: **default**
- Image Source: **Other Container Registries**

Under Docker hub options:

- Access Type: **Private**
- Registry server URL: <https://netreachacr.azurecr.io>
- Username: **<provided by WTI>**
- Password: **<provided by WTI>**
- Image and Tag: **netreach-image:<tag>**
- Port: **3000**
- Startup Command: **<Leave this setting blank>**

<tag>: The specific version or tag of the image (e.g., latest, v1.00). If no tag is specified, Docker defaults to latest.

Create Web App ...

Basics Database **Container** Networking Monitor + secure Tags Review + create

Select your preferred source for container images. You can change these settings and other dependencies after creating the app. [Learn more](#)

Sidecar support ☒ Enhanced configuration with sidecar support on [Learn More](#) ⓘ

Image Source *

☐ Quickstart

☐ Azure Container Registry

☒ Other container registries

Name *

NetReach-AzureContainer ✓

Docker hub options

Access Type *

☐ Public

☒ Private

Registry server URL *

<https://netreachacr.azurecr.io> ✓

Username *

*****606 ✓

Password *

***** ✓

Image and tag *

netreach-image:v1.00 ✓

Port

3000 ✓

Startup Command ⓘ

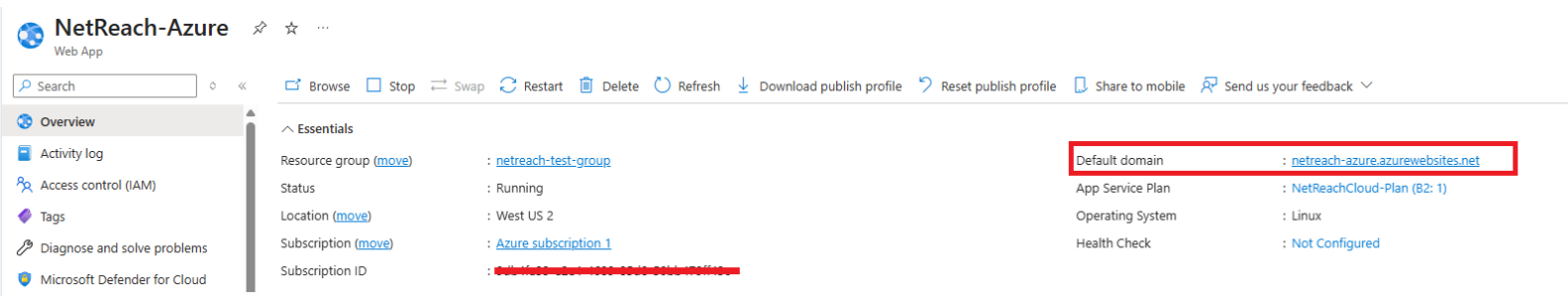
Example: /bin/bash; -c; echo hello; sleep 10000

[Review + create](#) [< Previous](#) [Next : Networking >](#)

4. Select **Review and create**, and then select **Create**. Wait until the web app has been deployed before you continue.

NOTE: The first time you run NetReach Docker image in App Service, App Service does a docker pull and pulls all image layers. These layers are stored on disk. Each time the app restarts, App Service does a docker pull from WTI Azure Registry. It pulls only changed layers. If there are no changes, App Service uses existing layers on the local disk.

5. To Verify NetReach is successful deploy. Go to **Overview** click on **Default domain of your app name**



NetReach-Azure Web App

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Essentials

Resource group (move) : [netreach-test-group](#)

Status : Running

Location (move) : West US 2

Subscription (move) : [Azure subscription 1](#)

Subscription ID : [xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx](#)

Default domain : [netreach-azure.azurewebsites.net](#)

App Service Plan : [NetReachCloud-Plan \(B2: 1\)](#)

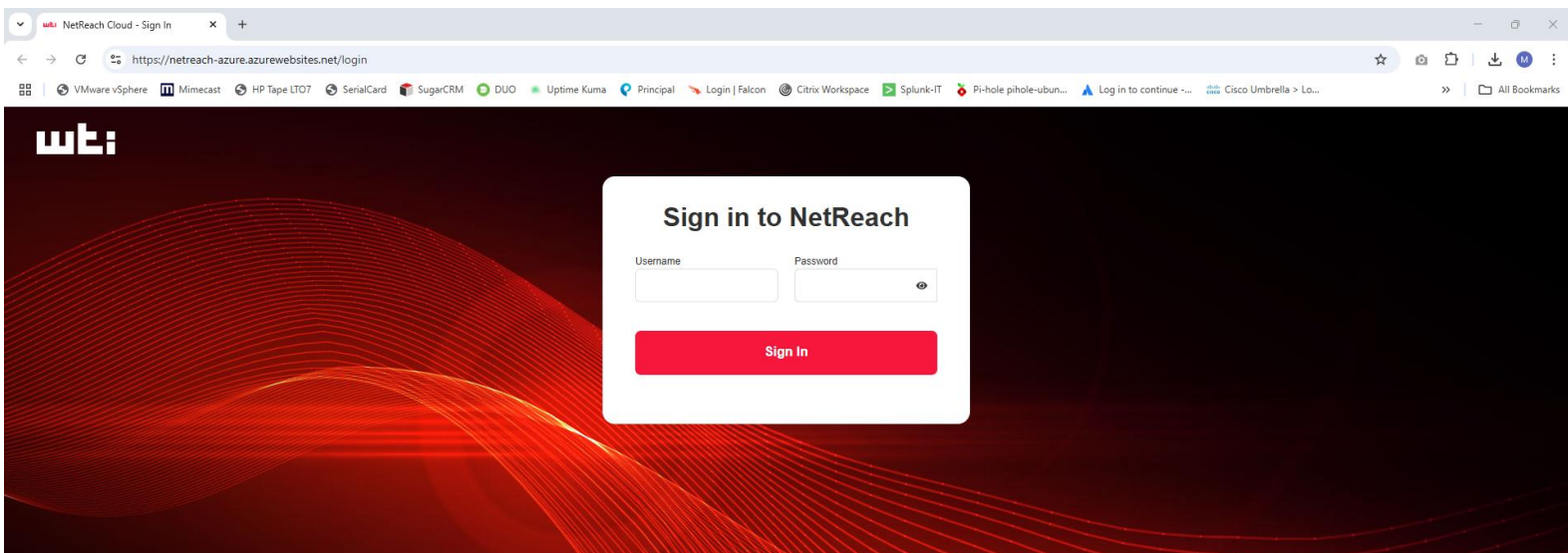
Operating System : Linux

Health Check : Not Configured

To login to the NetReach for the first time the default username/password as below.

Default username: **netreach**

Default password: **netreach**



Step 3: Configure NetReach Container for App Service

Enable persistent shared storage in NetReach container. You can use the /home directory in NetReach container file system to persist file across restarts and share them across instances. By default, persistent storage is disabled on Linux custom containers. To enable it, set the WEBSITES_ENABLE_APP_SERVICE_STORAGE app setting value to true.

1. Go to **App Service** > **select your NetReach web App**
2. In the left menu pane, under **Settings**, select **Environment variables**, and under **App Setting tab**, click on **Add**. The Add/Edit application pane appears.

Setting	Value
Name	WEBSITES_ENABLE_APP_SERVICE_STORAGE
Value	true

3. Select **Apply**.

NOTE: If WEBSITES_ENABLE_APP_SERVICE_STORAGE environment variable already exists, modify the value to true and select apply.