## Beytra Email

Username: [beyondt@pitt.edu](mailto:beyondt@pitt.edu)

Password: (Project2See)2

## Creating a Resource Group

1. Name the group
2. Add it to the East US 2 region

## Creating a Virtual Network

The virtual network is required to create the Web Application. However, the University of Pittsburgh’s policies do not allow you to create one. Thus, you will need put in a ticket request in with the help desk.

1. You will need to provide the subscription id: 17b87506-796c-4619-8b7e-af3f44c6f802
2. The management group: Restricted\_Data\_Workloads
3. The resource group it should be on: beytra-rg
4. Specify you want the default VNET settings
5. The name of the Dev environment’s VNET is AZURE-DEVBEYTRA-VNET
   1. Prod environment can be named AZURE-PRODBEYTRA-VNET

## Creating a Web App on Azure

1. To create a web app on Azure, go to <https://portal.azure.com/> and search for App Services
2. Fill out the information on the Basics tab.
   1. Select the beytra-rg resource group
   2. Name the app
      1. Development environment is called dev-beytra
      2. Production environment can be called prd-beytra
   3. Publish using code
   4. Runtime stack: Node 18 LTS
   5. Operating System: Linux
   6. Region: East US 2
   7. Create new Linux Plan if you haven’t already created one
      1. Development Linux plan is beytra-dev
   8. Select pricing plan
      1. The plan will need to be on at least the Basic B1 tier in order for the private endpoint to be allowed to be created
   9. Disable Zone Redundancy
3. Fill out the information on the Deployment tab
   1. If setting up to deploy directly from GitHub, then enable continuous deployment
      1. The development app dev-beytra has continues deployment disabled and is deployed directly from VSCode
      2. This can be changed later
   2. Fill out the GitHub settings if using continuous deployment
4. Fill out the information on the Networking tab
   1. Disable public access
   2. Enable network injection
      1. Select the Virtual Network already set up on the resource group for this environment
5. Fill out the information on the Monitor + secure tab
   1. Disable Application Insights
6. Review and create the web application

## Creating a Private Endpoint

The private endpoint is required to create the SQL database as the University of Pittsburgh doesn’t allow public access for SQL databases that are in their Azure Restricted Data zone due to the sensitivity of the information that's involved. Thus, you will need put in a ticket request in with the help desk so that their Network Engineering team can set up the endpoint.

1. You will need to provide the subscription id: 17b87506-796c-4619-8b7e-af3f44c6f802
2. The resource group it should be on: beytra-rg
3. The private endpoint will need to be connected to the virtual network that is created for this environment and will connect to the SQL server.
4. Dev private endpoint is called beytra-dev-private-endpoint

## Creating an SQL Server

1. Select the CompSci – BeyTra subscription
2. Select the beytra-rg resource group
3. Enter server name
   1. Dev server name is beytra-dev-server
4. Select a location: East US 2
5. Select SQL authentication
6. Create an admin and password for SQL authentication
   1. Dev server username: devbeytra\_admin
   2. Dev server password: BeyondTranscripts1
7. In the networking tab, allow azure services and resources to access this server
8. Review whether or not you want Microsoft Defender for SQL
   1. Dev server does not have this

## Creating an SQL Database

1. Select the CompSci – BeyTra subscription
2. Select the beytra-rg resource group
3. Enter database name
   1. Dev database name is beytra-dev
4. Determine whether you want to use SQL elastic pool
   1. Dev database does not
5. Select workload environment
6. Select service tier
   1. Dev database uses General Purpose
   2. Prod database will need a higher tier
7. Select compute tier
   1. Dev uses serverless
8. Select Firewall rules
   1. Use default settings
9. Add the private endpoint you set up before
10. In Additional Settings
    1. Use SQL\_Latin1\_General\_CP1\_CI\_AS Collation
    2. Decide maintenance window

## Azure Spring App

There is already an Azure spring app called beytra-spring that can be used to add additional apps for other environments (dev environment is beytra-be). However, Azure spring apps are set to be retired by the end of March 2025. Because of this, it will need migrated to an Azure container app.

<https://learn.microsoft.com/en-us/azure/spring-apps/basic-standard/retirement-announcement>.

## SAML-based Sign-on

The devbeytra-boxy-auth-app is an enterprise application that uses boxy Jackson for the SAML SSO for the dev environment. You can read up on Boxy Jackson SSO here: <https://boxyhq.com/docs/jackson/sso-providers/azure>

The dev-beytra-boxy-auth-app is set up as an identity provider for the dev-beytra web app. However, the SAML SSO still needs set up in the beytra-lms code.

## Running the Azure web application

When not working on the DEV environment, the Azure resources should be shut off to keep costs down. To run the DEV environment, start the beytra-dev web app, and the beytra-be spring app. After starting both, you can go to this URL that was set up by Pitt’s help desk that hosts the application: <https://beytra-dev.pitt.edu/>

Currently you will receive an error because the SSO is not set up in the code. This github repo on the PittOnlineAdvisors organization has some code in attempts to set up the SSO in beytra-lms project: <https://github.com/PittOnlineAdvisor/beytra-sso>

If you go to the authentication section of the beytra-dev web app, you can remove the devbeytra-boxy-auth-app as an identity provider, restart the web app, and go to <https://beytra-dev.pitt.edu/> and you will see the homepage of the project.

Below are some screenshots and information to help readd the devbeytra-boxy-auth-app as an identity provider if you remove it.

Identifier: <https://beytra-dev.pitt.edu/>

Reply URL: <https://beytra-dev.pitt.edu/api/oauth/saml> (default)

<https://beytra-dev.pitt.edu/.auth/login/aad/callback>

Application (client) ID: 91c8a07c-f846-4a5a-b80d-88454f58e6ab

Issuer URL: <https://sts.windows.net/9ef9f489-e0a0-4eeb-87cc-3a526112fd0d/v2.0>

A screenshot of a computer

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