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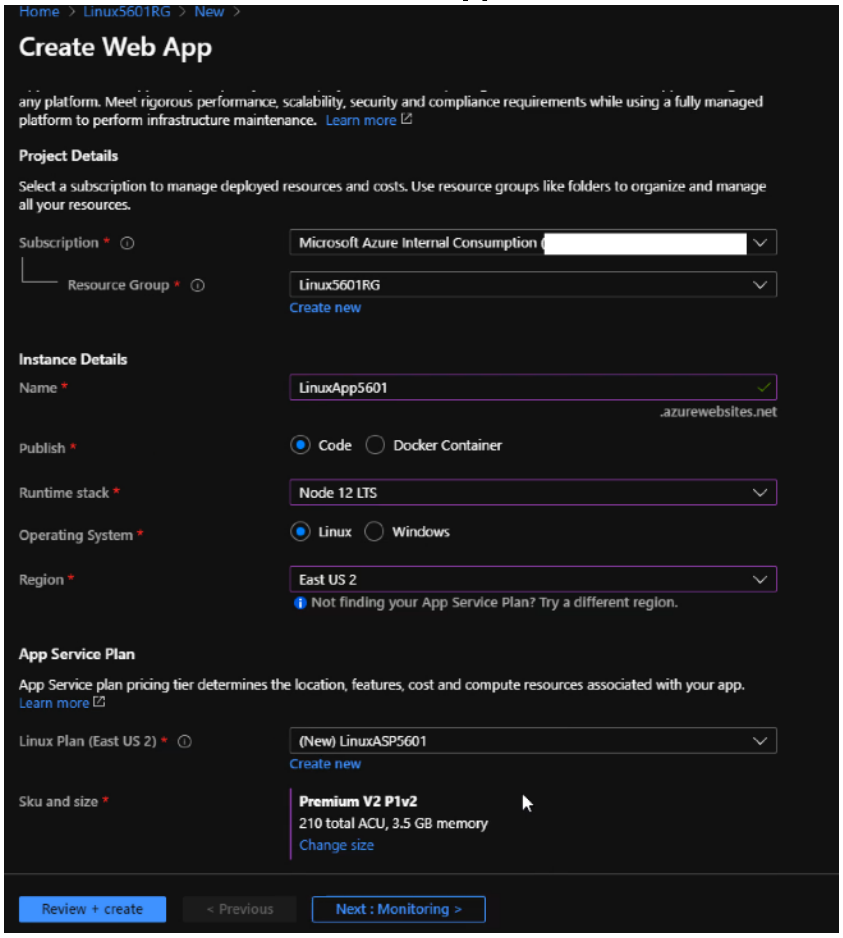
QUICK REFERENCE GUIDE

FLATRIS PIPELINE BUILD

I realize it can be hard to follow along with a video sometimes. If you get stuck, you can always refer to the steps documented here. This should have you up and running with your Flatris game in minutes. Enjoy.

1. In Azure, create a Linux WebApp Service



Home > Linux5601RG > New >

Create Web App

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 *	Microsoft Azure Internal Consumption ([redacted]
Resource Group *	Linux5601RG
	Create new

Instance Details

Name *	LinuxApp5601 .azurewebsites.net
Publish *	[✓ Code] Docker Container
Runtime stack *	Node 12 LTS
Operating System *	[✓ Linux] Windows
Region *	East US 2
	Not finding your App Service Plan? Try a different region.

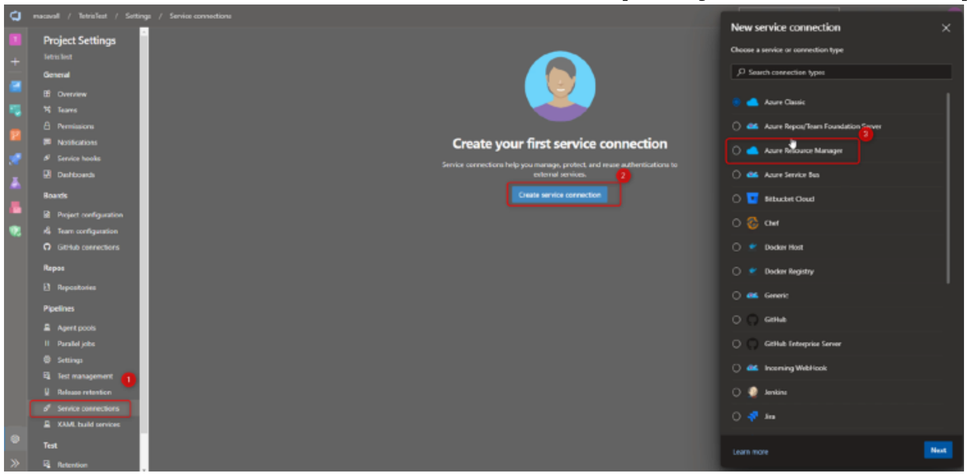
App Service Plan

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

Linux Plan (East US 2) *	(New) LinuxASP5601
	Create new
Sku and size *	**Premium V2 P1v2** 210 total ACU, 3.5 GB memory Change size

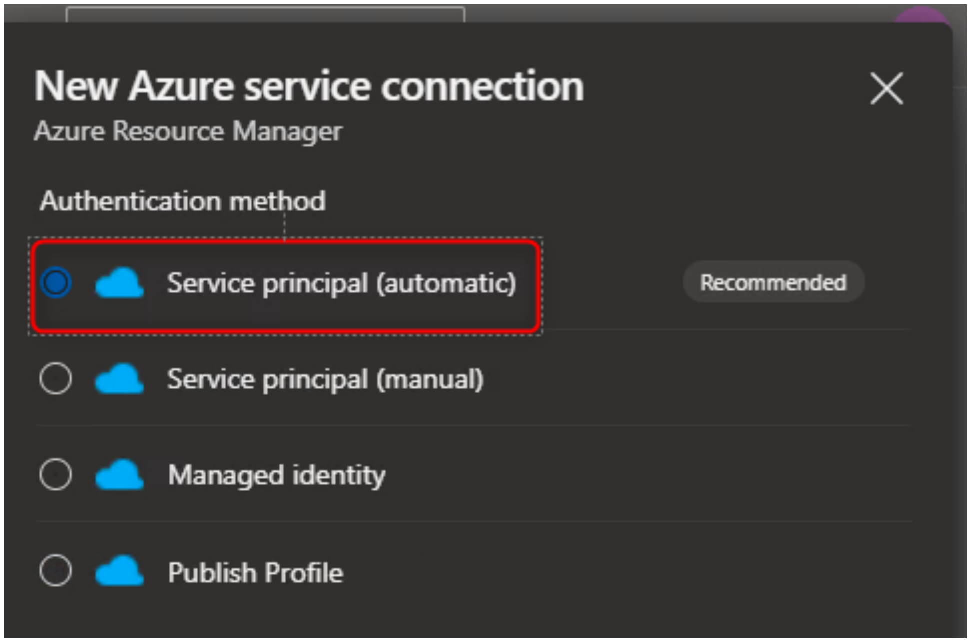
Make sure to use a clone of the Flatris-LAB GitHub repository: https://github.com/likeabosslearning/Flatris-LAB

2. Create s Service Connection to link DevOps to your Azure subscription.



Create your first service connection

Service connections help you manage, protect, and reuse authentications to external services.



New Azure service connection

Azure Resource Manager

Authentication method

[✓ Service principal (automatic)] Recommended

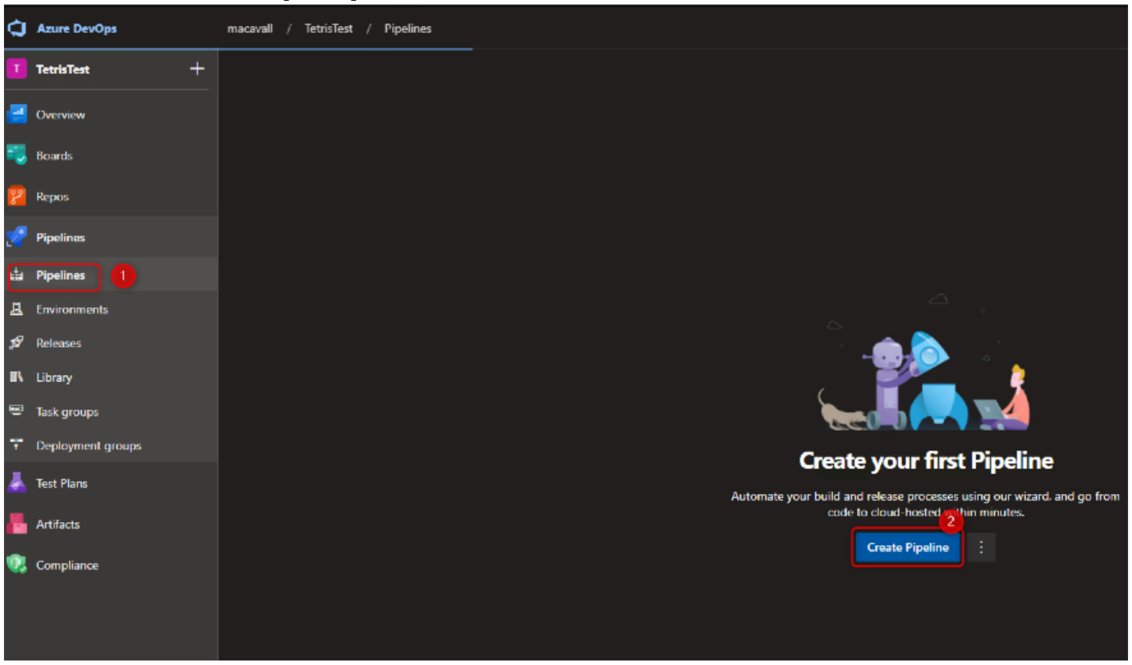
Service principal (manual)

Managed identity

Publish Profile

You'll use this Service connection name in the YAML file.

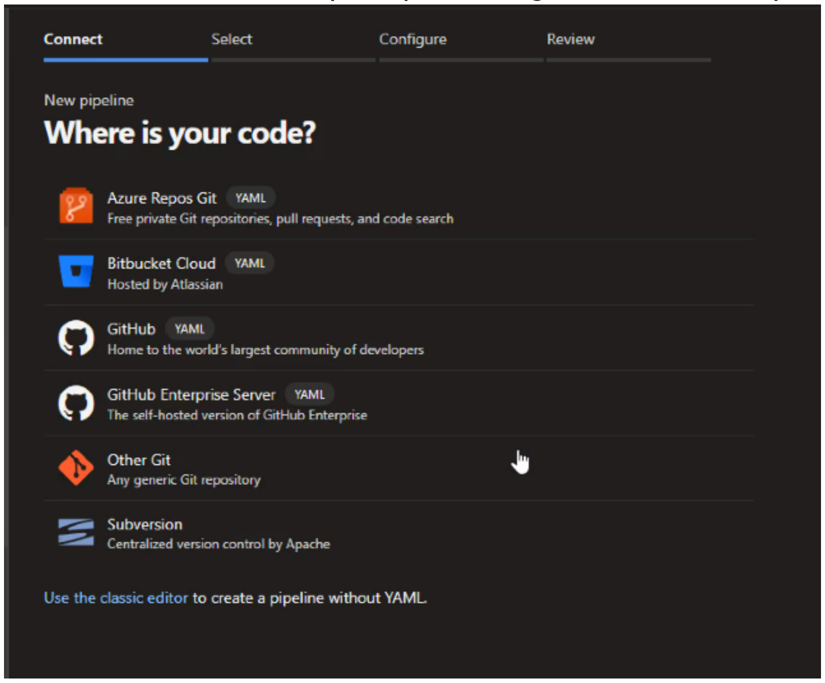
3. Create the DevOps Pipeline.



Create your first Pipeline

Automate your build and release processes using our wizard, and go from code to cloud-hosted within minutes.

Point to the Azure DevOps Repo hosting the Flatris DevOps app.



New pipeline

Where is your code?

Azure Repos Git YAML
Free private Git repositories, pull requests, and code search

Bitbucket Cloud YAML
Hosted by Atlassian

GitHub YAML
Home to the world's largest community of developers

GitHub Enterprise Server YAML
The self-hosted version of GitHub Enterprise

Other Git
Any generic Git repository

Subversion
Centralized version control by Apache

Use the classic editor to create a pipeline without YAML.

Use the first option, 'Node.js to get started with a general Node.js project.

4. Use the following custom YAML file, replacing the first 4 variables with the Service Connection, App Service, and Resource Group Names that match your environment. (You should be able to copy and paste.

```yaml
# Node.js Express Web App to Linux on Azure
# Build a Node.js Express app and deploy it to Azure as a Linux web app.
# Add steps that analyze code, save build artifacts, deploy, and more:
# https://docs.microsoft.com/azure/devops/pipelines/languages/javascript

trigger:
- master

variables:

  # Azure Resource Manager connection created during pipeline creation
  azureSubscription: 'ServiceConnectionName'

  # Web app name
  webAppName: 'LinuxApp5601'

  # Resource group
  resourceGroupName: 'Linux5601RG'

  # Environment name
  environmentName: 'LinuxApp5601'

  # Agent VM image name
  vmImageName: 'ubuntu-latest'

stages:
- stage: Archive
  displayName: Archive stage
  jobs:
  - job: Archive
    displayName: Archive
    pool:
      vmImage: $(vmImageName)
    steps:
    - task: AzureAppServiceSettings@1
      inputs:
        azureSubscription: $(azureSubscription)
        appName: $(webAppName)
        resourceGroupName: $(resourceGroupName)
        appSettings: |
          [
            {
              "name": "SCM_DO_BUILD_DURING_DEPLOYMENT",
              "value": "true"
            }
          ]
    - task: ArchiveFiles@2
      displayName: 'Archive files'
      inputs:
        rootFolderOrFile: '$(System.DefaultWorkingDirectory)'
        includeRootFolder: false
        archiveType: zip
        archiveFile: $(Build.ArtifactStagingDirectory)/$(Build.BuildId).zip
        replaceExistingArchive: true

    - upload: $(Build.ArtifactStagingDirectory)/$(Build.BuildId).zip
      artifact: drop

- stage: Deploy
  displayName: Deploy stage
  dependsOn: Archive
  condition: succeeded()
  jobs:
  - deployment: Deploy
    displayName: Deploy
    environment: $(environmentName)
    pool:
      vmImage: $(vmImageName)
    strategy:
      runOnce:
        deploy:
          steps:
          - task: AzureWebApp@1
            displayName: 'Azure Web App Deploy: Matt-Test-NodeJS-Deploy'
            inputs:
              azureSubscription: $(azureSubscription)
              appType: webAppLinux
              appName: $(webAppName)
              runtimeStack: 'NODE|10.14'
              package: $(Pipeline.Workspace)/drop/$(Build.BuildId).zip
```

5. Save and run the pipeline, then open the link associated with your WebApp.