

Curso de Extensão
Tecnologias Microsoft

INF-0997

Azure DevOps – Releases

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26 de Novembro de 2022

INSTITUTO DE COMPUTAÇÃO

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Deploy no Azure App Service com Release Pipeline

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Create new project

Project name * prep-treinamento-release

Description

Visibility

- Public Anyone on the internet can view the project. Certain features like TFVC are not supported.
- Private Only people you give access to will be able to view this project.

Public projects are disabled for your organization. You can turn on public visibility with organization policies.

Advanced

Version control Git Work item process Basic

Create

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Create a repository

Repository type Git

Repository name * prep-treinamento-release-vs

Add a README

Add a .gitignore: VisualStudio

Your repository will be initialized with a main branch.

Create

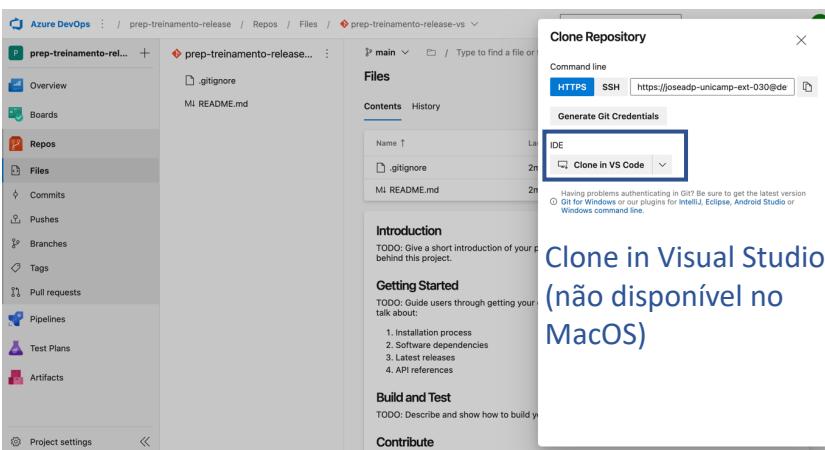
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Clonar repositório no Visual Studio



Clone Repository

Command line

HTTPS SSH https://oseadp-unicamp-ext-030@dev.azure.com/

Generate Git Credentials

IDE Clone in VS Code

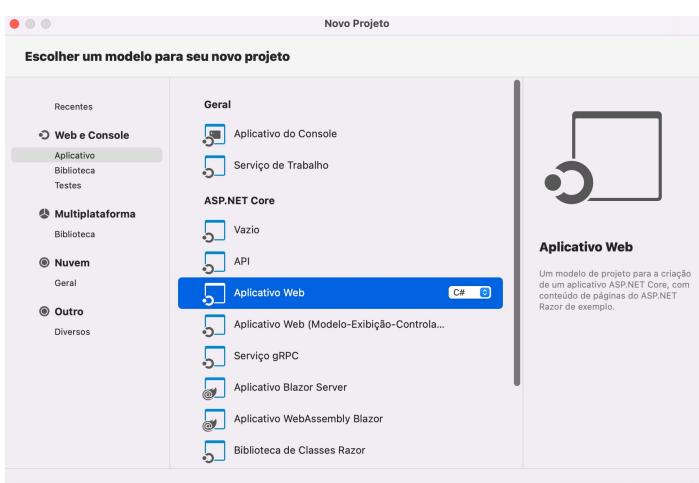
Having problems authenticating in GIT? Be sure to get the latest version of Git for Windows or our plugins for IntelliJ, Eclipse, Android Studio or Windows command line.

Clone in Visual Studio (não disponível no MacOS)

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Criar novo projeto no Visual Studio



Novo Projeto

Escolher um modelo para seu novo projeto

Recentes

- Web e Console
 - Aplicativo
 - Biblioteca
 - Testes
- Multiplataforma
 - Biblioteca
- Nuvem
 - Geral
- Outro
 - Diversos

Geral

- Aplicativo de Console
- Serviço de Trabalho

ASP.NET Core

- Vazio
- API
- Aplicativo Web

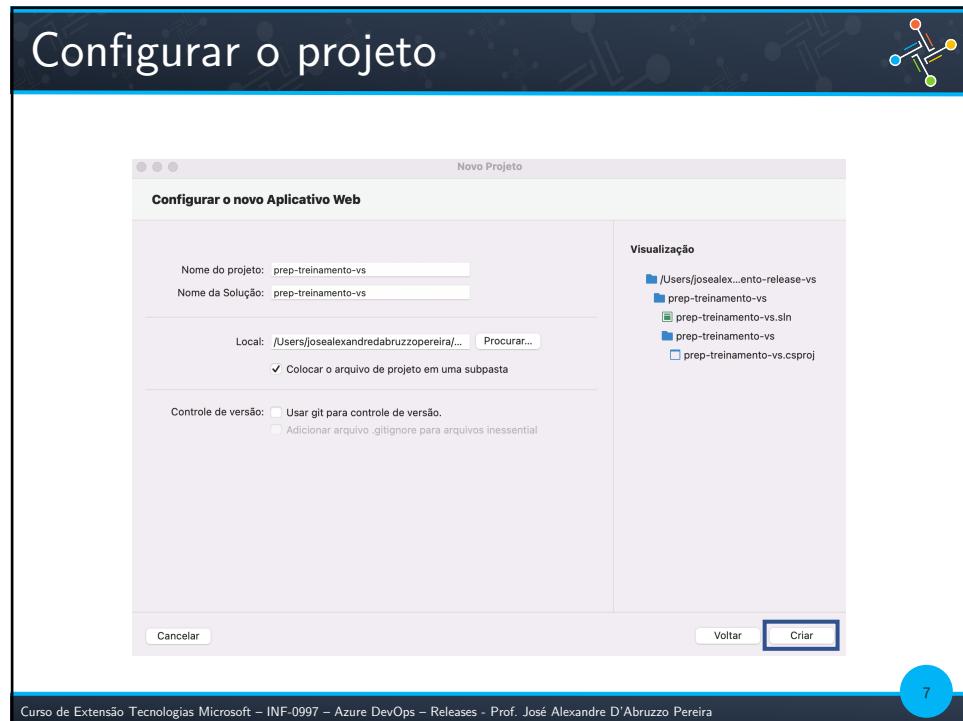
Aplicativo Web

Um modelo de projeto para a criação de um aplicativo ASP.NET Core, com conteúdo de páginas do ASP.NET Razor de exemplo.

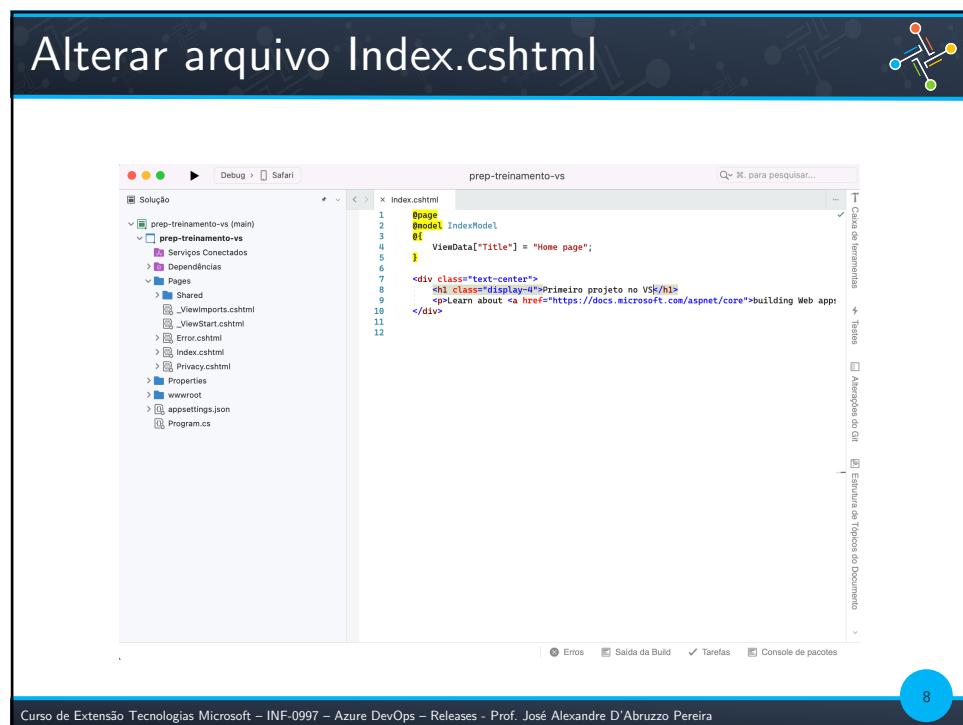
Cancelar Voltar Continuar

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Rodar o projeto

The screenshot shows a web browser window with the URL 'localhost'. The page title is 'Primeiro projeto no VS'. Below the title, there is a link to 'Learn about building Web apps with ASP.NET Core.' and a copyright notice: '© 2022 - prep_treinamento_vs - Privacy'. At the bottom of the page, there is a footer bar with the text 'Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira'.

Commitar o projeto

A blue circular icon with the number '9' is located in the top right corner of the slide.

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Projeto Commitado

The screenshot shows the Azure DevOps repository interface for the 'prep-treinamento-vs' project. The left sidebar shows navigation options like Overview, Boards, Repos, Files, Commits, Pushes, Branches, Tags, Pull requests, Pipelines, Test Plans, and Artifacts. The 'Files' tab is selected. The main area displays the contents of the 'main' branch, including files like 'wwwroot', 'appsettings.Development.json', 'appsettings.json', 'prep-treinamento-vs.cs...', 'Program.cs', '.gitignore', and 'README.md'. A 'Set up build' button is visible above the file list. Below the files, there are sections for 'Introduction', 'Getting Started', and 'Build and Test'.

Código fonte: Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira

A blue circular icon with the number '10' is located in the top right corner of the slide.

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Criar pipeline no modo clássico

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.

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Select a source

- Azure Repos Git
- GitHub
- Github Enterprise Server
- Subversion
- Bitbucket Cloud

Select your repository

Tell us where your sources are.
You can customize how to get these sources from the repository later.

Team project: prep-treinamento-release

Repository: prep-treinamento-release

Default branch for manual and scheduled builds: main

Continue

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Selecionar template

Or start with an **Empty job**

Configuration as code

YAML Looking for a better experience to configure your pipelines using YAML files? Try the new YAML pipeline creation experience. [Learn more](#)

Featured

- ASP.NET** Build and test an ASP.NET web application.
- Azure Web App for ASP.NET** Build, package, test, and deploy an ASP.NET Azure Web App.

Others

- ASP.NET Core** Build and test an ASP.NET Core web application.
- ASP.NET Core (.NET Framework)** Build an ASP.NET Core web application that targets the full .NET Framework.
- ASP.NET with containers** Build and push an ASP.NET application with container support.

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Selecionar Agente

Tasks Variables Triggers Options History Save & queue Discard Summary Queue ...

Pipeline Build pipeline

Get sources prep-treinamento-release-vs main

Agent job 1 Run on agent

Restore .NET Core
Build .NET Core
Publish .NET Core
Publish Artifact Publish build artifacts

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Selecionar o caminho do repositório (Restore)

Azure DevOps joseadp-unicamp-ext-030 / prep-treinamento-release / Pipelines

Tasks Variables Triggers Options History Save & queue Discard Summary Queue ...

Pipeline Some settings need attention

Get sources prep-treinamento-release-vs main

Agent job 1 Run on agent

Restore .NET Core

Task version 2*

Display name Restore

Command restore

Path to project(s) prep-treinamento-vs\prep-treinamento-vs*.csproj

Arguments

Feeds and authentication

Feeds to use Feed(s) I select here Feeds in my NuGet.config

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Copiar caminho do projeto

Azure DevOps prep-treinamento-release / Repos / Files / prep-treinamento-release-vs

Overview Boards Repos Files Commits Pushes Branches Tags Pull requests Pipelines Test Plans Artifacts Project settings

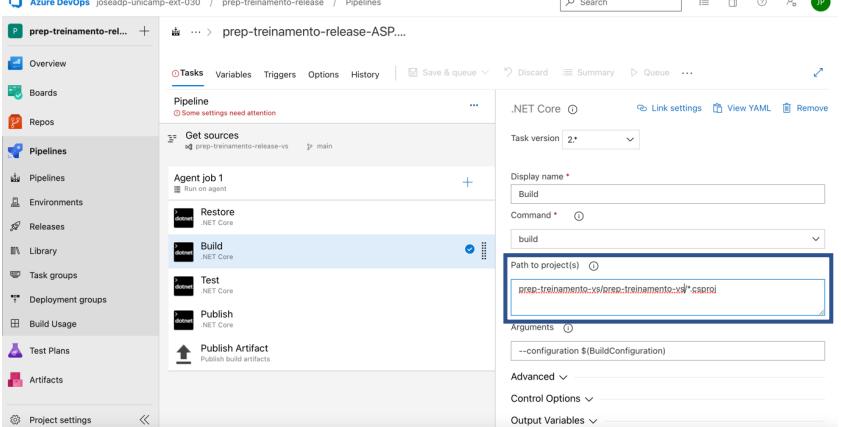
prep-treinamento-vs prep-treinamento-vs Pages Properties wwwroot appsettings.Development.json appsettings.json prep-treinamento-vs.cs... C# Program.cs prep-treinamento-vs.sln ignore README.md

Content Name ↑ prep-treinamento-vs\prep-treinamento-vs*.csproj Pages Properties wwwroot Start typing to find a file or folder. appsettings.json appsettings.json prep-treinamento-vs\prep-treinamento-vs\appsettings.Development.json prep-treinamento-vs\prep-treinamento-vs\appsettings.json prep-treinamento-vs\prep-treinamento-vs\prep-treinamento-vs\Program.cs C# Program.cs 8m ago 9a2d7671 Inicial VS proj... 8m ago 9a2d7671 Inicial VS proj... 8m ago 9a2d7671 Inicial VS proj... 8m ago 9a2d7671 Inicial VS proj...

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Selecionar o caminho do repositório (Build)

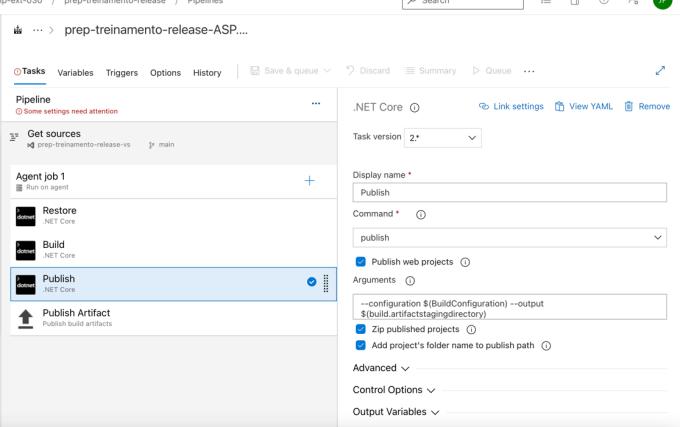


Azure DevOps interface showing a pipeline configuration. The 'Path to project(s)' field is highlighted and contains the value 'prep-treinamento-vs\prep-treinamento-vs*.csproj'.

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Remover Tarefa de Teste



Azure DevOps interface showing a pipeline configuration. The 'Command' field is highlighted and contains the value 'publish'.

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Não zipar o projeto

The screenshot shows the Azure DevOps interface for a build pipeline named 'prep-treinamento-release'. The pipeline consists of a single agent job with three tasks: 'Restore .NET Core', 'Build .NET Core', and 'Publish .NET Core'. The 'Publish .NET Core' task is highlighted with a blue box around its configuration area. Specifically, the 'Zip published projects' checkbox is unchecked, which is the correct setting according to the slide's title.

Remover o YAML do repositório (se foi criado)

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Rodar o Pipeline

The screenshot shows the Azure DevOps interface for running a build pipeline. It displays the pipeline configuration and a large central area with a cartoon illustration of a person and a dog looking at a computer screen with a rocket ship. Below the illustration, a button labeled 'Run pipeline' is highlighted with a blue box.

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Artefato Gerado

#20221110.1 • Inicial VS project

Manually run by José Alexandre D'Abruzzo Pereira

Repository and version: prep-treinamento-release-vs
Branch: main | Version: 9a2d7671

Time started and elapsed: Just now | Duration: 1m 13s

Related: 0 work items | Tests and coverage: Get started

Jobs:

| Name | Status | Duration |
|-------------|---------|----------|
| Agent job 1 | Success | 1m 4s |

View 2 changes

Run new

View retention leases

Project settings

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Criar novo Release Pipeline

No release pipelines found

Automate your release process in a few easy steps with a new pipeline

New pipeline

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Selecionar o Azure App Service Deployment

Select a template
Or start with an [Empty job](#)

Featured

- Azure App Service deployment**
Deploy your application to Azure App Service. Choose from Web App on Windows, Linux, containers, Function Apps, or WebJobs.
- Deploy a Java app to Azure App Service**
Deploy a Java application to an Azure Web App.
- Deploy a Node.js app to Azure App Service**
Deploy a Node.js application to an Azure Web App.
- Deploy a PHP app to Azure App Service and Azure Database for MySQL**
Deploy a PHP application to an Azure Web App and database using Azure Database for MySQL.
- Deploy a Python app to Azure App Service and Azure database for MySQL**
Deploy a Python Django, Bottle, or Flask application to an Azure Web App and database to Azure Database for MySQL.
- Deploy to a Kubernetes cluster**
Deploy, configure, update your containerized applications to a Kubernetes cluster.
- IIS website and SQL database deployment**
Deployment Group: Deploy ASP.NET or ASP.NET Core web applications to an IIS Website and SQL database on physical or virtual machines (VM).

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Adicionar um artefato

All pipelines > [New release pipeline](#)

Pipeline Tasks Variables Retention Options History

Artifacts | + Add **Stages** | + Add

+ Add an artifact Stage 1

Schedule not set

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Selecionar o artefato do tipo build

Add an artifact

Source type

- Build
- Azure Repo...
- Github
- TFVC

5 more artifact types ▾

Project * prep-treinamento-release

Source (build pipeline) * Build

Default version * Latest

Source alias * _Build

The artifacts published by each version will be available for deployment in release pipelines. The latest successful build of Build published the following artifacts: drop.

Add

25

25

Editar tasks do Stage

Save

Stage name Stage 1

Parameters Unlink all

Azure subscription * Scoped to subscription 'Subscrição do Azure - Atual'

App type Web App on Windows

App service name * This field is linked to 1 setting in 'Deploy Azure App Service'

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Azure DevOps - New release pipeline

Pipeline Tasks Variables Retention Options History

Stage 1 Deployment process

Run on agent Run on agent

Deploy Azure App Service Azure App Service deploy

Task version 4*

Display name Deploy Azure App Service

Connection type Azure Resource Manager

Azure subscription Subscrição do Azure - Atual (94da526a-e00e-4c39-9477-8ef61179a299)

App Service type Web App on Windows

App Service name azpipelines-unicamp2

Virtual application

View YAML Remove

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Campo de texto circulado: View YAML

27

Azure DevOps - Release Web App Service

All pipelines Tasks Variables Retention Options History

Deploy App Service Deployment process

Run on agent Run on agent

Deploy Azure App Service Azure App Service deploy

App Service name azpipelines-unicamp2

Deploy to Slot or App Service Environment

Virtual application

Package or folder \${System.DefaultWorkingDirectory}/**/*.*

Browse Package or folder

File Transforms & Variable Substitution Options

Additional Deployment Options

Post Deployment Action

Application and Configuration Settings

Control Options

Output Variables

28

Campo de texto circulado: Package or folder

28

Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service

Pipeline Tasks Deployment process

Select a file or folder

Linked artifacts

- _Build (Build)
 - drop
 - pre-treinamento-vs
 - wwwroot
 - appsettings.Development.json
 - appsettings.json
 - pre-treinamento-vs.deps.json
 - pre-treinamento-vs.dll
 - pre-treinamento-vs.exe
 - pre-treinamento-vs.pdb
 - pre-treinamento-vs.runtimeconfig.json
 - web.config

The artifacts published by each version will be available for deployment in release pipelines. The last successful version of _Build (Build) published the following artifacts: drop.

Location: Build/drop/pre-treinamento-vs

OK Cancel

Campo de busca

Save Create release ...

WorkingDirectory)/**".zip

Variable Substitution Options

Action Configuration Settings

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Campo de busca

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Azure DevOps joseadp-unicamp-ext-030 / prep-treinamento-release / Pipelines / Releases

Pipeline Task Stage 1 Deployment process

Run on agent

Deploy Azure App Service

Copy to clipboard

Below is a clipboard-friendly view of your selection. To copy to the clipboard, either right-click and choose "Copy" from the browser's context menu or press Ctrl+C. [more information about YAML builds]

```
#Your build pipeline references an undefined variable named $Parameters.ConnectedServiceName. Create or edit the build pipeline for this YAML file, define the variable on the Variables tab. See https://go.microsoft.com/fwlink/?linkid=865972
#Your build pipeline references an undefined variable named $Parameters.WebAppName. Create or edit the build pipeline for this YAML file, define the variable on the Variables tab. See https://go.microsoft.com/fwlink/?linkid=865972
#Your build pipeline references an undefined variable named $Parameters.WebAppSlotName. Create or edit the build pipeline for this YAML file, define the variable on the Variables tab. See https://go.microsoft.com/fwlink/?linkid=865972
steps:
- task: AzureRmWebAppDeployment@4
  displayName: 'Deploy Azure App Service'
  inputs:
```

Copy to clipboard

View YAML Remove

deploy

service

ger

Atual (94da526a-e00e-4c39-9477-8ef6179a299)

azpipelines-unicamp2

Virtual application

Deploy to Slot or App Service Environment

Campo de busca

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The screenshot shows the Azure DevOps interface for managing pipelines. A specific pipeline named "Release Web App Service" is selected. On the right, the "Properties" dialog is open for the "Deploy App Service" stage, showing the stage name and owner. A blue callout bubble in the bottom right corner contains the number "31".

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The screenshot shows the Azure DevOps interface for creating releases. The same pipeline is selected. The "Create release" button is highlighted in the top right. A blue callout bubble in the bottom right corner contains the number "32".

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Criar Release

Create a new release
Release Web App Service

Pipeline Tasks Variables Retention Options History

Artifacts | + Add Stages | + Add

+ Add an artifact Deploy App S 1 job, 1 task

Schedule not set

Release description
First Release

Create Cancel

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Tutorial sobre releases

We've made big improvements to the release summary page!

We've made it much easier to see exactly what's happening with all of your releases. You have a detailed summary of each release pipeline, plus one-click end-to-end access to more details such as artifacts, stages, approvals, tests, and logs. Quickly see the work items, commits, test results, and much more.

Learn What's new... Pipeline, artifacts, and stages Pre and post-deployment approvals and gates Commits and workitems In progress deployments and logs Test results & other extensions

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Deploy Iniciado Manualmente

The screenshot shows the Azure DevOps interface for a release pipeline named 'Release Web App Service' under 'Release-2'. The 'Release' section indicates it was manually triggered by José Alexandre D'Abruzzo on 10/11/2022 at 21:08. The 'Stages' section shows a single stage named 'Deploy App Service' which is currently 'Queued' and 'Waiting in Hosted Window...'. The left sidebar lists various project management and development tools like Boards, Repos, Pipelines, Releases, Library, Task groups, Deployment groups, Build Usage, Test Plans, and Artifacts.

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Deploy Concluído

The screenshot shows the same Azure DevOps interface after the deployment has completed. The 'Stages' section now shows the 'Deploy App Service' stage with a green success icon and the message 'Succeeded on 10/11/2022, 21:09'. The rest of the interface remains the same, showing the manual trigger details and the build artifact.

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The screenshot shows the Azure DevOps interface for a release log. The title bar says "Logs do Release". The left sidebar has "Pipelines" selected. The main area shows a "Deployment process" section with a "Run on agent" step that succeeded. Below it is a table of log entries:

| Task | Status | Duration |
|----------------------------------|-----------|----------|
| Initialize job | succeeded | 12s |
| Download artifact - Build - drop | succeeded | 10s |
| Deploy Azure App Service | succeeded | 30s |
| Finalize Job | succeeded | <1s |

At the bottom, a blue circle contains the number 37.

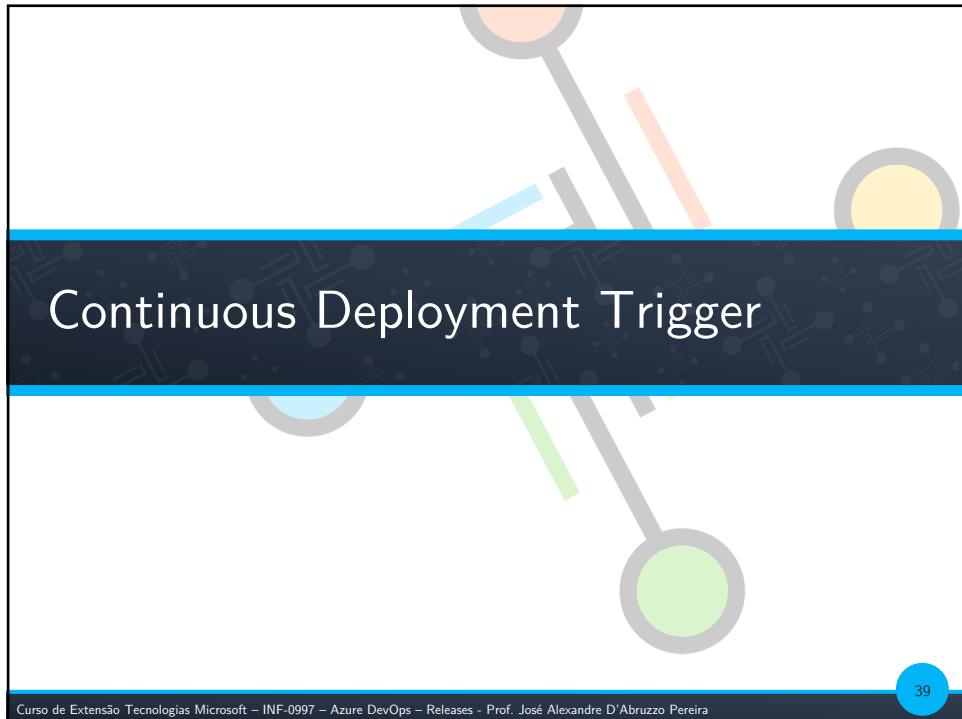
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The screenshot shows the Azure DevOps interface for a release properties page. The title bar says "Propriedades do Release". The left sidebar has "Pipelines" selected. The main area shows a "Stages" section with a "Deploy App Service" stage that succeeded. To the right is a "Deploy App Service" summary card:

- Now at Release-2**
- Deployment succeeded** on 10/11/2022, 21:09 · Ran for 55s
- Run on agent - Succeeded** 4/4 task(s) succeeded
- Automatic trigger** Deployment triggered on 10/11/2022, 21:08
- Associated changes** View commits and work items
 - Build / 2022110.1
 - main

At the bottom, a blue circle contains the number 38.

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A screenshot of the Azure DevOps interface showing the 'Add trigger' step for a release pipeline. The pipeline is named 'Release Web App Service'. The left sidebar shows 'Pipelines' selected. The main area displays the current pipeline structure: an artifact named '_Build' is connected to a stage named 'Deploy App Service' which contains a task named 'Deploy App Service' (1 job, 1 task). A 'Schedule not set' note is present. The top navigation bar includes 'All pipelines', 'Tasks', 'Variables', 'Retention', 'Options', and 'History'.

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Alterar Propriedades da Trigger

Continuous deployment trigger

Build branch filters

Type: Build branch

Include: main

Pull request trigger

Disabled

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Habilitar CI no Build Pipeline

Continuous integration

Enabled

Branch filters

Type: Branch specification

Include: main

Path filters

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Alterar o Repositório

The screenshot shows the Azure DevOps interface for a repository named 'prep-treinamento-rele...'. The left sidebar includes 'Overview', 'Boards', 'Repos' (selected), 'Files', 'Commits', 'Pushes', 'Branches', 'Tags', 'Pull requests', 'Pipelines', 'Test Plans', and 'Artifacts'. The main area displays the file structure under 'Pages' and the content of 'Index.cshtml'. The code in 'Index.cshtml' is:

```

1 <page>
2 <model IndexModel>
3 <t>
4 ViewData["Title"] = "Home page";
5 </t>
6
7 <div class="text-center">
8   <h1 class="display-4">Primeiro projeto no VS</h1>
9   <p>Learn about <a href="https://docs.microsoft.com/aspnet/core">building Web apps with ASP.NET</a></p>
10 </div>
11
12

```

A blue circle with the number '43' is located in the bottom right corner.

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Commitar o arquivo

The screenshot shows the Azure DevOps interface with the same repository structure. A 'Commit' dialog is open over the 'Index.cshtml' file. The dialog fields include:

- Comment:** Updated Index.cshtml
- Branch name:** main
- Work items to link:** Search work items by ID or title

A blue circle with the number '44' is located in the bottom right corner.

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Build Pipeline Iniciado

#20221110.2 • Updated Index.cshtml

Triggered by José Alexandre D'Abruzzo Pereira

Repository and version: prep-treinamento-release-vs
Branch: main Commit: 58ec38ed

Time started and elapsed: Just now

Related: 0 work items

Tests and coverage: 1 consumed

Jobs

| Name | Status | Duration |
|-------------|--------|----------|
| Agent job 1 | Queued | |

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Build Pipeline Finalizado

Agent job 1

1 Pool: Azure Pipelines
2 Image: windows-latest
3 Agent: Hosted Agent
4 Started: Just now
5 Duration: 49s
6
7 + Job preparation parameters
8 1 artifact produced

Jobs

| Name | Duration |
|---|----------|
| Agent job 1 | 49s |
| Initialize job | 4s |
| Checkout prep-treinamento-release-vs@58ec38ed | 5s |
| Restore | 7s |
| Build | 11s |
| Publish | 2s |
| Publish Artifact | 11s |
| Post-job: Checkout p... | <1s |
| Finalize Job | <1s |
| Report build status | <1s |

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Release para ser iniciado

The screenshot shows the Azure DevOps interface for managing releases. On the left, there's a sidebar with various project management and development tools like Boards, Repos, Pipelines, and Releases. The main area is titled "Release Web App Service" and shows a list of three releases:

| Release | Created | Actions |
|-----------|----------------------|------------------------------|
| Release-3 | 10/11/2022, 21:33:24 | <button>Deploy A...</button> |
| Release-2 | 10/11/2022, 21:08:04 | <button>Deploy A...</button> |
| Release-1 | 10/11/2022, 20:58:00 | <button>Deploy A...</button> |

A blue circular badge in the bottom right corner contains the number 47.

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Release Iniciado com Continuous Deployment

This screenshot shows a specific release named "Release-3" in progress. The interface is divided into two main sections: "Release" and "Stages".

- Release:** Shows "Continuous deploy..." for José Alexandre D'... on 10/11/2022, 21:33. It lists artifacts: "Build 2022110.2" from the "main" branch.
- Stages:** Shows the "Deploy App Service" stage which is currently "in progress". It indicates "Download artifact - 2022110.2" and a progress bar at 0.02%.

A blue circular badge in the bottom right corner contains the number 48.

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Deploy finalizado

Azure DevOps: / prep-treinamento-release / Pipelines / Releases / Release Web App Service / Release-3

Deployment process: Succeeded

Run on agent: Started: 10/11/2022, 21:33:43
Pool: Hosted Windows 2019 with... · Agent: Hosted Agent
... 30s

| Task | Status | Duration |
|----------------------------------|-----------|----------|
| Initialize job | succeeded | 6s |
| Download artifact - Build - drop | succeeded | 6s |
| Deploy Azure App Service | succeeded | 16s |
| Finalize Job | succeeded | <1s |

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Página Publicada

prep_treinamento_vs Home Privacy

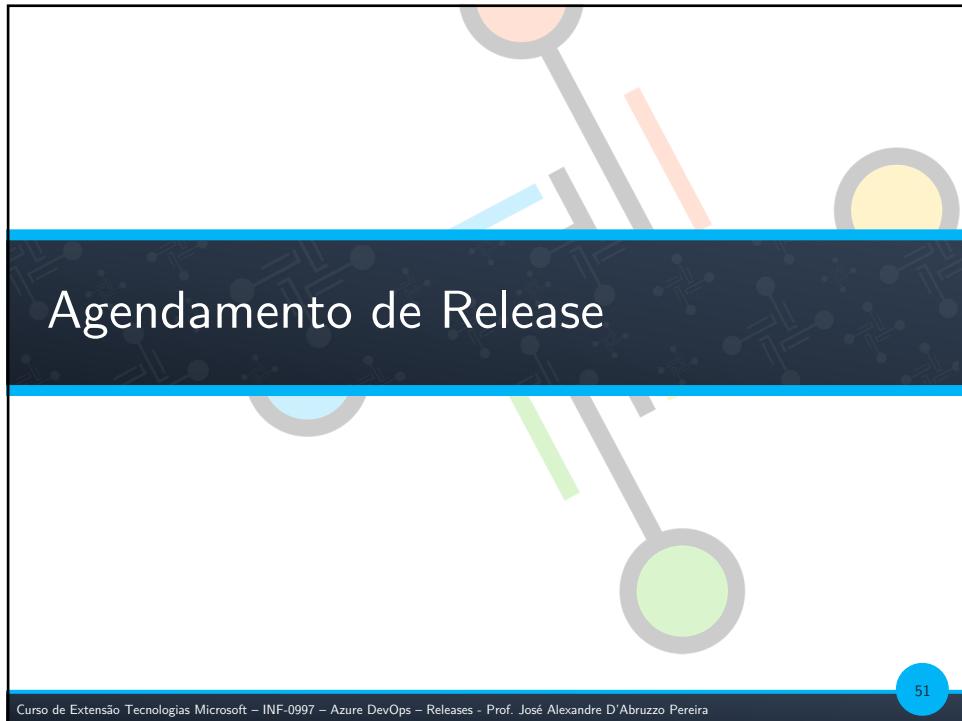
Release Pipeline com CI/CD

Learn about [building Web apps with ASP.NET Core](#).

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A screenshot of the Azure DevOps interface showing the 'Edit Release Pipeline' screen. The top navigation bar includes 'Azure DevOps', 'prep-treinamento-rel...', 'Overview', 'Boards', 'Repos', 'Pipelines' (which is selected), 'Environments', 'Releases', 'Library', 'Task groups', 'Deployment groups', 'Build Usage', 'Test Plans', and 'Artifacts'. Below the navigation is a breadcrumb trail: 'All pipelines > Release Web App Service'. The main area has tabs for 'Pipeline', 'Tasks', 'Variables', 'Retention', 'Options', and 'History'. The 'Pipeline' tab is active. It shows two sections: 'Artifacts' (with a 'Build' artifact) and 'Stages' (with a 'Deploy App Service' stage). A note 'Schedule not set' is visible next to the Build artifact. The bottom footer bar contains the text "Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira" and a circular icon containing the number "52".

52

Scheduled release trigger
Define schedules to trigger releases
 Enabled
Create a new release at the specified times
Mon through Fri at 22:50 ~
 Mon Tue Wed Thu Fri Sat Sun
22h (UTC) Coordinated Universal Time
 Only schedule releases if the source or pipeline has changed
[+ Add a new time](#)

53

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| Release | Created | Actions |
|-----------|----------------------|-----------------------------|
| Release-4 | 10/11/2022, 21:52:00 | Deploy A... |
| Release-3 | 10/11/2022, 21:33:24 | Deploy A... |
| Release-2 | 10/11/2022, 21:08:04 | Deploy A... |
| Release-1 | 10/11/2022, 20:58:00 | Deploy A... |

54

54

Deploy agendado realizado

Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service / Release-4

Pipeline Variables History + Deploy Cancel Refresh Edit Help

Release Stages

Scheduled trigger 10/11/2022, 21:52

Artifacts Build 2022110.2 main

Deploy App Service Succeeded on 10/11/2022, 21:53

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55

55

Iniciar Release apenas se tiver alterações

Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service

All pipelines > Release Web App Service Pipeline Tasks Variables Retention Options History Save Create release ...

Artifacts | + Add Stages | + Add

Scheduled release trigger Define schedules to trigger releases

Enabled Create a new release at the specified times

Mon through Fri at 22:00 ~

Mon Tue Wed Thu Fri Sat Sun

22h 00m (UTC) Coordinated Universal Time

+ Only schedule releases if the source or pipeline has changed

+ Add a new time

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The screenshot shows the Azure DevOps interface. On the left, the navigation bar includes 'Overview', 'Boards', 'Repos', 'Files' (selected), 'Commits', 'Pushes', 'Branches', 'Tags', 'Pull requests', 'Pipelines', 'Test Plans', and 'Artifacts'. The main area displays a file tree for 'prep-treinamento-release-vs' under 'Pages'. A 'Commit' dialog is open over the file 'Index.cshtml', containing the following code:

```

1 <page
2   model IndexModel
3   ViewData["Title"] = "Home page";
4 }
5 )
6
7 <div class="text-center">
8   <h1 class="display-4">Release</h1>
9   <p>Learn about <a href="https://docs.microsoft.com/aspnet/core">ASP.NET Core</a></p>
10 </div>
11
12

```

The 'Comment' field contains 'Updated Index.cshtml'. The 'Branch name' is set to 'main'. There is a 'Work items to link' section with a search bar. At the bottom right of the dialog are 'Cancel' and 'Commit' buttons.

At the bottom of the screen, a blue circle contains the number '57'.

Caption: Alterar o código

57

The screenshot shows the Azure DevOps interface. The navigation bar includes 'Overview', 'Boards', 'Repos', 'Pipelines' (selected), 'Environments', 'Releases', 'Library', 'Task groups', 'Deployment groups', 'Build Usage', 'Test Plans', and 'Artifacts'. The main area displays a pipeline run summary for '#20221110.3 - Updated Index.cshtml'.

Triggered by: José Alexandre D'Abruzzo Pereira

Repository and version: prep-treinamento-release-vs, main, 54686644

Time started and elapsed: Just now, 1m 14s

Related: 0 work items

Tests and coverage: 1 published, 1 consumed

Jobs:

| Name | Status | Duration |
|-------------|---------|----------|
| Agent job 1 | Success | 1m 1s |

At the bottom of the screen, a blue circle contains the number '58'.

Caption: Pipeline Finalizado

58

The screenshot shows the Azure DevOps interface for a completed release. The title bar says "Release Finalizado". The main area displays a "Release Pipeline" for "Release-5" of a "Release Web App Service". The pipeline consists of two stages: "Release" and "Stages". The "Release" stage shows a "Scheduled trigger" on "10/11/2022, 22:00" and an "Artifacts" section with a "Build" artifact from "20221103 main". The "Stages" section shows a single stage named "Deploy App Service" which has "Succeeded" on "10/11/2022, 22:01". The left sidebar lists various project management and development tools like Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, Deployment groups, Build Usage, Test Plans, and Artifacts. A navigation bar at the bottom includes "Pipeline", "Variables", "History", "Deploy", "Cancel", "Refresh", "Edit", and "Help". A search bar is also present.

59

The screenshot shows a web browser displaying a completed release pipeline. The title of the page is "Release Pipeline com CI/CD - Alteração do código". Below the title, it says "Learn about [building Web apps with ASP.NET Core](#)". At the bottom of the page, there is a footer with the text "© 2022 - prep_treinamento_vs - [Privacy](#)". The browser's address bar shows the URL "prep_treinamento_vs".

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Deploy com Múltiplos Stages

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Criar um novo App Service no Azure

| Nome | Subscrição | Serviço de Aplicações | Última atualização |
|--------------------------|------------|--------------------------------|--------------------|
| Subscrição-Nov2022 | | | há um dia |
| azpipelines-unicamp | | | há um dia |
| DefaultResourceGroup-CUS | | | há um dia |
| ASP-AZPIPELINES-809f | | plano do Serviço de Aplicações | há uma semana |
| AZPIPELINES | | Grupo de recursos | há uma semana |

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Serviços Aplicacionais

| Nome | Estado | Localização | Escalão de Preço | plano do Serviço de Aplicações | Subscrição | Tipo de ... |
|----------------------|-------------|-------------|------------------|--------------------------------|---------------------------|-------------------|
| azpipelines-unicamp | Em execução | Central US | Gratuito | ASP-AZPIPELINES-809f | Subscrição do Azure - ... | Aplicação Web ... |
| azpipelines-unicamp2 | Em execução | Central US | Gratuito | azpipelines-plan-unicamp | Subscrição do Azure - ... | Aplicação Web ... |

Propriedades do App Service

Criar Aplicação Web

Selecionar uma subscrição para gerir os recursos implementados e custos. Utilize os grupos de recursos como pastas para organizar e gerir todos os recursos.

Subscrição *: Subscrição do Azure - Atual
Grupo de Recursos *: DefaultResourceGroup-CUS

Detalhes de Instância

Nome *: azpipelines-unicamp-qa
Publicar: Código
Plataforma: .NET Core 3.1 (LTS)
Sistema operativo: Windows
Região: Central US

Plano de Serviço de Aplicações

63

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Criar Aplicação Web

Selecionar uma subscrição para gerir os recursos implementados e custos. Utilize os grupos de recursos como pastas para organizar e gerir todos os recursos.

Subscrição *: Subscrição do Azure - Atual
Grupo de Recursos *: DefaultResourceGroup-CUS

Detalhes de Instância

Nome *: azpipelines-unicamp-qa
Publicar: Código
Plataforma: .NET Core 3.1 (LTS)
Sistema operativo: Windows
Região: Central US

Plano de Serviço de Aplicações

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Propriedades do App Service

Criar Aplicação Web

Plano de Serviço de Aplicações

O plano do Serviço de Aplicações determina a localização, funcionalidades, custo e recursos de computação associados à sua aplicação. [Saiba mais](#)

Plano de Windows (Central US) * [azppelin-plan-unicamp \(F1\)](#) [Criar novo](#)

SKU e tamanho * **Gratuito F1**
Infraestrutura partilhada, 1 GB de memória

Redundância entre zonas

Um plano do Serviço de Aplicações pode ser implementado como um serviço com redundância entre zonas nas regiões que o suportam. Esta é uma decisão tomada apenas no momento da implementação. Um plano do Serviço de Aplicações de Aplicações não pode ficar com redundância entre zonas após a sua implementação. [Saiba mais](#)

Ativado: O seu plano do Serviço de Aplicações e as respetivas aplicações terão redundância entre zonas. A contagem mínima de instâncias do plano do Serviço de Aplicações será três.

Desativado: O seu Plano do Serviço de Aplicações e as respetivas aplicações não terão redundância entre zonas. A contagem mínima de instâncias do plano do Serviço de Aplicações será uma.

[Rever + criar](#) [< Anterior](#) [Seguinte : Implementação >](#)

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Sem Monitoramento

Criar Aplicação Web

Informações básicas [Implementação](#) [Rede](#) **Monitorização** [Sinalizadores](#) [Rever + criar](#)

O Application Insights do Azure Monitor é um serviço de Gestão de Desempenho de Aplicações (APM) para programadores e profissionais de DevOps. Ative-o abaixo para monitorizar automaticamente a sua aplicação. Irá detetar anomalias de desempenho e inclui poderosas ferramentas de análise para o ajudar a diagnosticar problemas e a compreender o que os utilizadores realmente fazem com a sua aplicação. [Saiba mais](#)

Application Insights

Ativar o Application Insights * Não Sim

[Rever + criar](#) [< Anterior](#) [Seguinte : Sinalizadores >](#)

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Rever e Criar

Criar Aplicação Web

Informações básicas **Implementação** **Rede** **Monitorização** **Sinalizadores** **Rever + criar**

Resumo

Aplicação Web pela Microsoft

Detalhes

| | |
|-------------------|--------------------------------------|
| Subscrição | 94da526a-e00e-4c39-9477-8ef61179a299 |
| Grupo de Recursos | DefaultResourceGroup-CUS |
| Nome | azpipelines-unicamp-q4 |
| Publicar | Código |
| Pilha do runtime | .NET Core 3.1 (LTS) |

Plano de Serviço de Aplicações

| | |
|-------------------|---------------------------|
| Nome | azpipelines-plan-unicamp |
| Sistema operativo | Windows |
| Região | Central US |
| SKU | Gratuito |
| ACU | Infraestrutura partilhada |
| Memória | 1 GB de memória |

Criar < Anterior Seguinte > Transferir um modelo para automatização

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App Service Criado

Microsoft.Web-WebApp-Portal-36648112-8b7d | Descrição Geral

Implementação

A sua implementação está concluída

Nome da implementação: Microsoft.Web-WebApp-Portal-366... **Hora de início:** 11/11/2022, 23:26:32
Subscrição: Subscrição do Azure - Atual **ID de Correlação:** fd77e41b-8bdc-4772-8c51-299752715

Cost Management
Receba notificações para cumprir o orçamento e impedir despesas inesperadas na sua fatura.
Configurar alertas de custos >

Microsoft Defender para a Cloud
Proteger as suas aplicações e infraestrutura
Ir para o Microsoft Defender para a Cloud >

Tutoriais gratuitos da Microsoft
Comece a aprender hoje >

Trabalhar com um especialista
Os parceiros do Azure são parceiros de fornecimento de serviços que podem ajudar a gerir os seus recursos no Azure e ser a sua primeira linha de suporte.

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App Service Criado

azpipelines-unicamp-qa

Descrição Geral

- Registo de atividade
- Controlo de acesso (IAM)
- Etiquetas
- Diagnosticar e resolver problemas
- Microsoft Defender para a Cloud
- Eventos (pré-visualização)

Implementação

- Manual de Início Rápido
- Ranuras de implementação
- Centro de Implementações

Definições

- Configuração
- Autenticação
- Application Insights
- Identidade
- Cópias de Segurança

Informações Básicas

| | | | |
|---------------------------|--|--|---|
| Grupo de recursos (mover) | : DefaultResourceGroup-CUS | URL | : https://azpipelines-unicamp-qa.azure... |
| Estado | : Running | plano do Serviço de Aplicações | : azpipelines-plan-unicamp |
| Localização (mover) | : Central US | Sistema operativo | : Windows |
| Subscrição (mover) | : Subscrição do Azure - Atual | Verificação de Estado de Funcionamento | : Não Configurado |
| ID da Subscrição | : 94da526a-e00e-4c39-9477-8ef61179a299 | | |

Propriedades **Monitorização** **Registos** **Capacidades** **Notificações**

Aplicação Web

| | | |
|----------------------------|------------------------|-------------------------------|
| Nome | azpipelines-unicamp-qa | Application Insights |
| Modelo de publicação | Código | Name |
| Pilha de Tempo de Execução | .NETCore | Ativar o Application Insights |

Centro de Implementações

| | | |
|-----------------------------|----------------------------------|--------------------------------|
| Registros de implementação | Ver registos | Alojamento |
| Última implementação | Nenhuma implementação encontrada | Tipo de Plano |
| Fornecedor de implementação | None | plano do Serviço de Aplicações |

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Tela de Boas-Vindas

Microsoft Azure

A sua aplicação Web está em execução e a aguardar pelos seus conteúdos

A sua aplicação Web está disponível, mas ainda não temos o seu conteúdo. Se já tiver implementado, poderá demorar até 5 minutos para que os seus conteúdos sejam apresentados, por isso, volte a verificar em breve.



</> Suporte para Node.js, Java, .NET e muito mais

| | |
|--|---|
| Ainda não implementou? Utilize o centro de implementação para publicar código ou configurar a implementação contínua. | Está a começar um novo site? Siga o nosso Guia de Início Rápido para preparar rapidamente uma aplicação Web. |
|--|---|

Centro de Implementação **Inicio Rápido**

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Editar Release – Desabilitar Agendamento

The screenshot shows the Azure DevOps Pipeline Editor for a 'Release Web App Service' pipeline. On the left, there's a sidebar with options like Overview, Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, Deployment groups, Build Usage, Test Plans, and Artifacts. The 'Pipelines' option is selected. The main area shows a 'Pipeline' tab with two stages: 'Build' and 'Deploy App Service'. The 'Deploy App Service' stage has one task. A modal window titled 'Scheduled release trigger' is open, containing the text 'Define schedules to trigger releases' and a toggle switch labeled 'Disabled'. Below the switch is the note 'Create a new release at the specified times'. A blue circle in the bottom right corner contains the number '71'.

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Ativar Entrega Contínua

The screenshot shows the Azure DevOps Pipeline Editor for the same 'Release Web App Service' pipeline. The sidebar and pipeline structure are identical to the previous screenshot. A modal window titled 'Continuous deployment trigger' is open, showing the 'Build:__Build' trigger. It has a toggle switch labeled 'Enabled' with the note 'Creates a release every time a new build is available.' A blue box highlights this 'Enabled' switch. Below it is a 'Build branch filters' section with a note 'No filters added.' and a '+ Add' button. Another section for 'Pull request trigger' is shown with a note 'Enabling this will create a release every time a selected artifact is available as part of a pull request workflow' and a 'Disabled' toggle switch. A blue circle in the bottom right corner contains the number '72'.

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Azure DevOps Pipeline Overview:

- Artifacts:** Build
- Stages:**
 - Deploy App Service (1 job, 1 task)
 - Clone** (highlighted)

Bottom navigation bar: Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira

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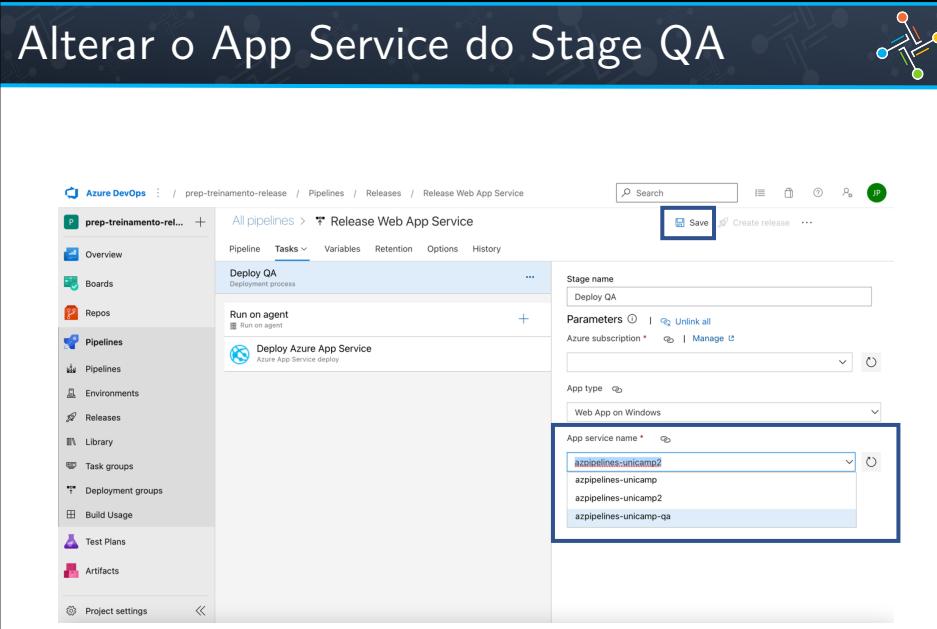
Azure DevOps Pipeline Overview:

- Artifacts:** Build
- Stages:**
 - Deploy QA (1 job, 1 task)
 - Deploy Produção (1 job, 1 task)

Bottom navigation bar: Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira

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Alterar o App Service do Stage QA



Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service

All pipelines > **Release Web App Service**

Pipeline Tasks Variables Retention Options History

Deploy QA Deployment process

Run on agent Run on agent

Deploy Azure App Service Azure App Service deploy

Stage name Deploy QA

Parameters | Unlink all

Azure subscription * | Manage

App type Web App on Windows

App service name *

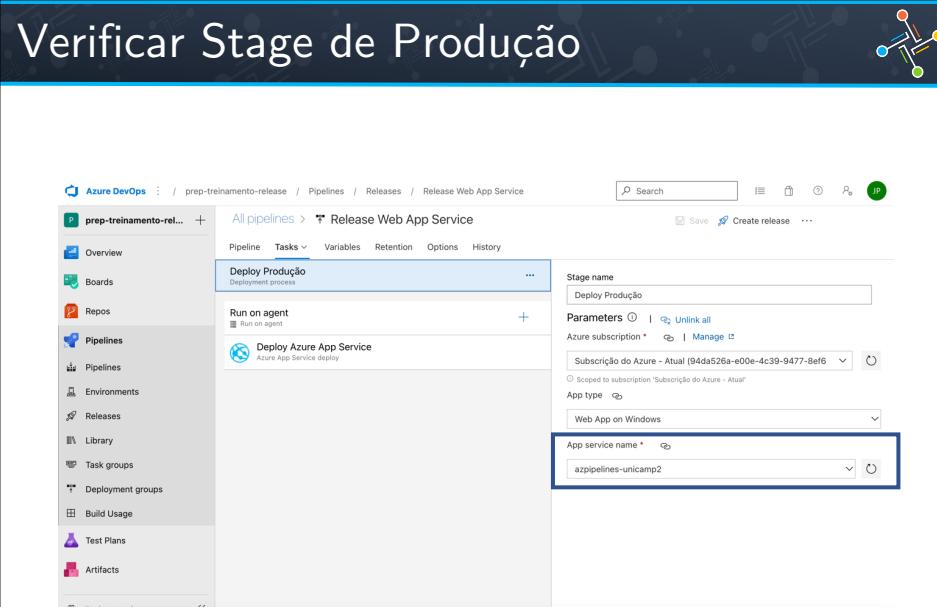
azpipelines-unicamp2
azpipelines-unicamp
azpipelines-unicamp2
azpipelines-unicamp-qa

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Verificar Stage de Produção



Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service

All pipelines > **Release Web App Service**

Pipeline Tasks Variables Retention Options History

Deploy Produção Deployment process

Run on agent Run on agent

Deploy Azure App Service Azure App Service deploy

Stage name Deploy Produção

Parameters | Unlink all

Azure subscription * | Manage

Subscrição do Azure - Atual (94da526a-e00e-4c39-9477-8ef6)

App type Web App on Windows

App service name *

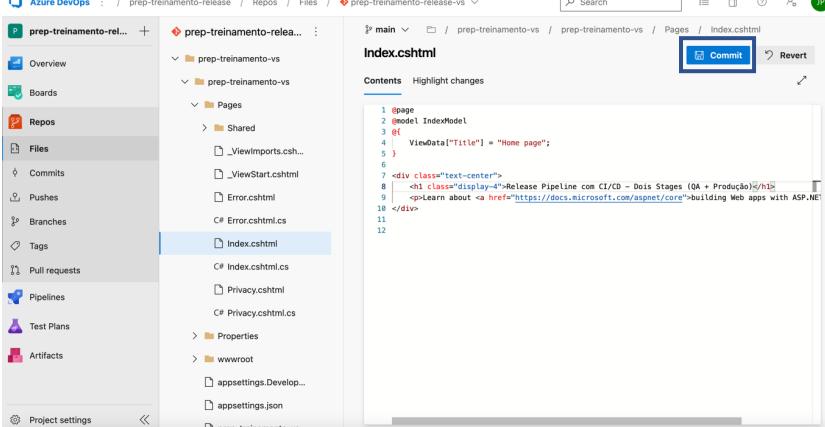
azpipelines-unicamp2
azpipelines-unicamp
azpipelines-unicamp2
azpipelines-unicamp-qa

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Alterar o Index.cshtml no repositório



Azure DevOps : / prep-treinamento-release / Repos / Files / prep-treinamento-release-vs / main / Pages / Index.cshtml

Index.cshtml

```

1 <page>
2     model IndexModel
3     ViewData["Title"] = "Home page";
4
5 )
6
7 <div class="text-center">
8     <h1>Release Pipeline com CI/CD - Dois Stages (QA + Produção)</h1>
9     <p>Learn about <a href="https://docs.microsoft.com/aspnet/core">building Web apps with ASP.NET</a></p>
10 </div>
11
12

```

Contents Highlight changes

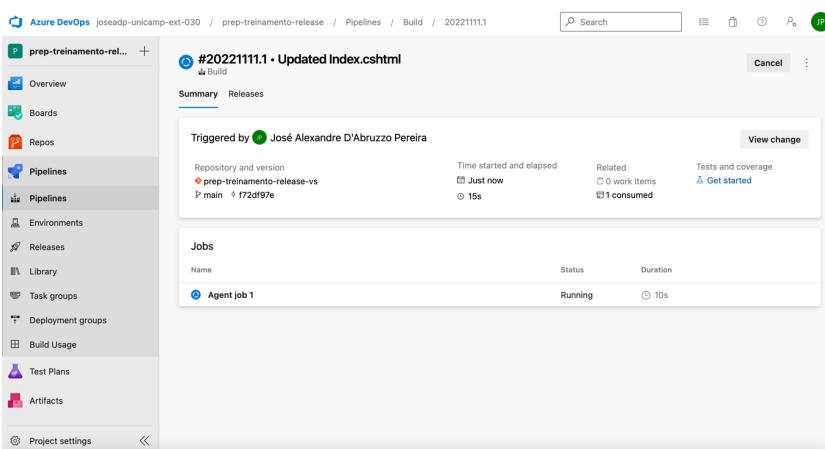
Commit Revert

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Pipeline Iniciado



Azure DevOps joseadp-unicamp-ext-030 / prep-treinamento-release / Pipelines / Build / 20221111.1

#20221111.1 • Updated Index.cshtml

Triggered by José Alexandre D'Abruzzo Pereira

| Repository and version | Time started and elapsed | Related | Tests and coverage |
|--|--------------------------|----------------------------|-----------------------------|
| prep-treinamento-release-vs main ↗ f72df97e | Just now 15s | 0 work items 1 consumed | Get started |

Jobs

| Name | Status | Duration |
|-------------|---------|----------|
| Agent job 1 | Running | 10s |

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The screenshot shows the Azure DevOps interface for a release pipeline. The left sidebar has 'Pipelines' selected. The main area shows a 'Release' card for 'Continuous deploym...' and a 'Stages' section with two stages: 'Deploy QA' (Succeeded) and 'Deploy Produção' (Succeeded). The bottom status bar indicates the course: 'Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira'.

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The screenshot shows the Azure DevOps interface for a release pipeline. The left sidebar has 'Pipelines' selected. The main area shows a 'Release' card for 'Continuous deploym...' and a 'Stages' section with two stages: 'Deploy QA' (Succeeded) and 'Deploy Produção' (Succeeded). The bottom status bar indicates the course: 'Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira'.

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Aprovações no Release Pipeline

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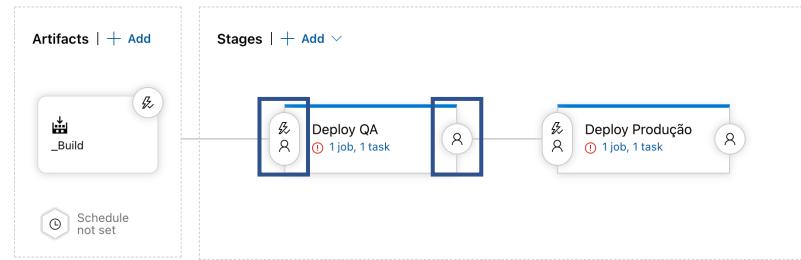
81

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Aprovações Pré e Pós Deployment



- Sempre que é preciso que alguém aprove para outro stage
- Pré-Deployment: antes do Stage
 - Antes de fazer o deployment para um ambiente
- Pós-Deployment: após o Stage
 - Para validar que o deployment foi feito corretamente naquele stage



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Editar Release Pipeline

Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service

All pipelines > Release Web App Service

Pipeline Tasks Variables Retention Options History

Artifacts | + Add Stages | + Add

Build Deploy QA Deploy Produção

Schedule not set

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Tipos de Triggers

Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service

All pipelines > Release Web App Service

Pipeline Tasks Variables Retention Options History

Artifacts | + Add Stages | + Add

Build Deploy QA Deploy Produção

Schedule not set

Pre-deployment conditions

Deploy QA

Triggers

Select trigger

- After release
- After stage
- Manual only

Artifact filters

Schedule

Pull request deployment

Pre-deployment approvals

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Selecionar Aprovadores

The screenshot shows the Azure DevOps interface for a release pipeline named 'Release Web App Service'. In the 'Triggers' section, the 'Pre-deployment approvals' option is enabled, and a user named 'José Alexandre D'Abruzzo Pereira' is listed as an approver. A timeout of 30 days is set. Approval policies and deployment queue settings are also visible.

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Salvar e Iniciar um novo Release

The screenshot shows the Azure DevOps interface for a release pipeline. A 'Save' dialog box is open, prompting for a comment. To the right, a deployment task titled 'Deploy Produção' is visible, indicating 1 job and 1 task.

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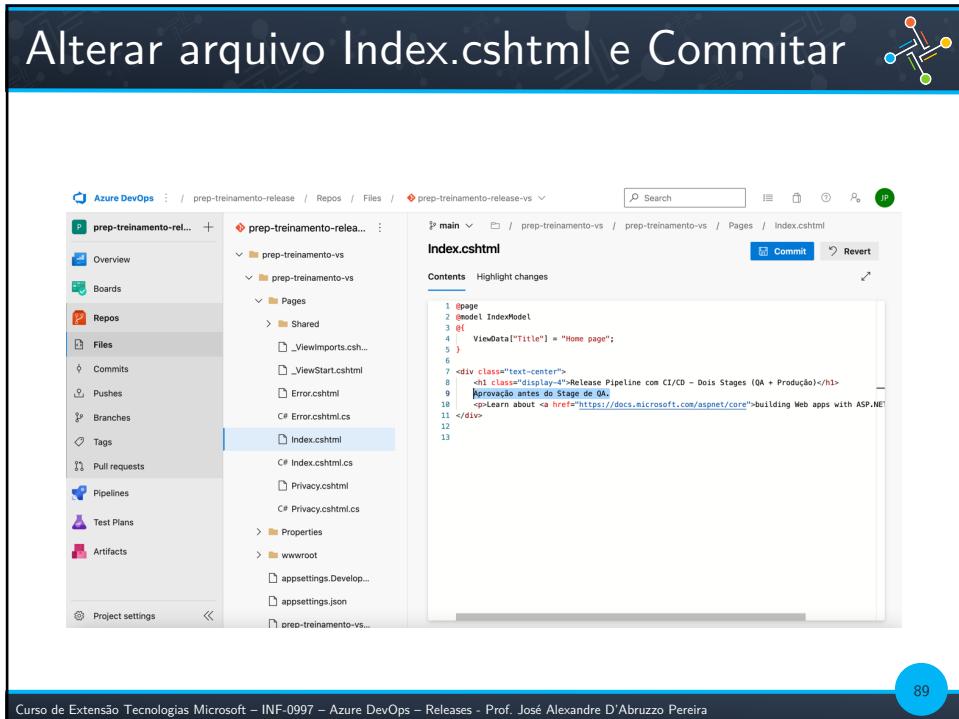
A screenshot of the Azure DevOps interface, specifically the Releases section. The title bar says "Aprovação Pendente". The main area shows a "Release" pipeline with two stages: "Deploy QA" and "Deploy Produção". The "Deploy QA" stage is currently active, indicated by a blue progress bar and the text "Pending approval". A tooltip above it says "Manually triggered by José Alexandre D'A... 12/11/2022, 17:31". Below the stages, there's a section for "Artifacts" showing a build named "Build 20221111.1". On the left sidebar, under the "Pipelines" heading, the "Releases" option is selected.

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A screenshot of the Azure DevOps interface, showing a deployment cancellation dialog. The title bar says "Cancelar Deployment". The dialog box asks "Are you sure you want to cancel the deployment to 'Deploy QA'?". It includes a text input field labeled "Enter a comment" and two buttons: "Yes" and "No". In the background, the release pipeline and artifact details are visible, matching the previous screenshot. The left sidebar shows the "Releases" option under "Pipelines".

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Alterar arquivo Index.cshtml e Commitar



A screenshot of the Azure DevOps interface. The left sidebar shows the project structure under 'Repos' for the 'prep-treinamento-release-vs' repository. The 'Pages' folder contains files like Shared, ViewImports.cshtml, ViewStart.cshtml, Error.cshtml, and Index.cshtml. The 'Index.cshtml' file is selected and shown in the main editor area. The code in the editor is:

```

1 <page>
2     model IndexModel
3     ViewData["Title"] = "Home page";
4
5 )
6
7 <div class="text-center">
8     <h1 class="display-4">Release Pipeline com CI/CD - Dois Stages (QA + Produção)</h1>
9     <p>Novo código antes do Stage de QA.</p>
10    <p>Learn about <a href="https://docs.microsoft.com/aspnet/core">building Web apps with ASP.NET</a></p>
11 </div>
12
13

```

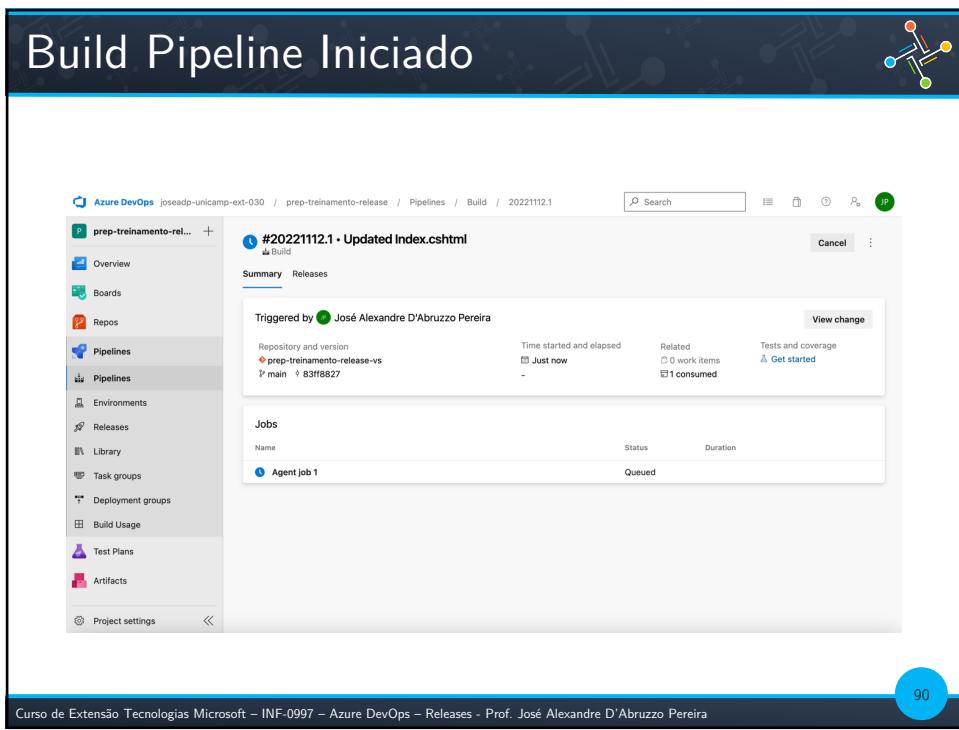
The 'Commit' button is visible at the top right of the editor.

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Build Pipeline Iniciado



A screenshot of the Azure DevOps interface. The left sidebar shows the project structure under 'Pipelines'. A build pipeline named '#20221112.1 • Updated Index.cshtml' is currently running. The summary card shows it was triggered by 'José Alexandre D'Abruzzo Pereira' and is 'Just now' started. It has consumed 1 unit of time. The 'Jobs' section shows one job named 'Agent job 1' which is 'Queued'.

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Release Iniciado, pendente de aprovação

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Aprovar Release

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Ambiente de QA aprovado

Release Pipeline com CI/CD - Dois Stages (QA + Produção)

Aprovação antes do Stage de QA.

Learn about [building Web apps with ASP.NET Core](#).

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Release Concluído

Azure DevOps / prep-treinamento-release / Pipelines / Releases / Release Web App Service / Release-8

Pipeline Variables History Deploy Cancel Refresh Edit ...

Release

Continuous deploy... for José Alexandre D'... 12/11/2022, 17:38

Artifacts

- Build 20221112.1

Stages

Deploy QA Succeeded on 12/11/2022, 17:38

Deploy Produção Succeeded on 12/11/2022, 17:38

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Desabilitar o Pré-Deployment

Pre-deployment conditions

Deploy QA

Triggers
Define the trigger that will start deployment to this stage

Pre-deployment approvals
Select the users who can approve or reject deployments to this stage
 Disabled

Gates
Define gates to evaluate before the deployment.
 Disabled

Deployment queue settings
Define behavior when multiple releases are queued for deployment

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Habilitar a Aprovação de Pós-Deployment

Post-deployment conditions

Deploy QA

Post-deployment approvals
Select the users who can approve or reject deployments to this stage
 Enabled

Approvers
José Alexandre D'Abruzzo Pereira Search users and groups for approvers

Timeout
30 Days

Approval policies
 The user requesting a release or deployment should not approve it

Gates
Define gates to evaluate after the deployment.
 Disabled

Auto-redeploy trigger
Configure the events that trigger automated redeployment.
 Disabled

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Alterar Index.cshtml e commitar

The screenshot shows the Azure DevOps interface for a repository named 'prep-treinamento-release'. The left sidebar has 'Files' selected. In the main area, 'Index.cshtml' is highlighted in the file tree. A 'Commit' dialog is open over the file, containing the following text:

```

1 <page
2     model IndexModel
3     ViewData["Title"] = "Home page";
4 }
5 )
6
7 <div class="text-center">
8     <h1 class="display-4">Release</h1>
9     <p>Aprovação Post-deployment do<br/><a href="https://</a><br/></p>
10    <p>Learn about <a href="https://</a><br/></p>
11 </div>
12
13

```

The 'Comment' field contains 'Updated Index.cshtml'. The 'Branch name' is set to 'main'. There is a 'Commit' button at the bottom right.

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Build Pipeline Finalizado

The screenshot shows the Azure DevOps interface for a pipeline named 'prep-treinamento-release'. The left sidebar has 'Pipelines' selected. A 'Jobs in run #20221112.2' card is displayed, showing the following build steps:

- Agent job 1 (45s)
 - Initialize job (3s)
 - Checkout prep-treinamento-release (5s)
 - Restore (7s)
 - Build (9s)
 - Publish (2s)
 - Publish Artifact (10s)
 - Post-job: Checkout p... (<1s)
 - Finalize Job (<1s)
 - Report build status (<1s)

The log pane shows the following output:

```

1 Pool: Azure Pipelines
2 Image: windows-latest
3 Agent: Hosted Agent
4 Started: Just now
5 Duration: 45s
6
7 + Job preparation parameters
8   ! artifact produced
9   Job live console data:
10  Finishing: Agent job 1

```

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Deploy em QA feito automaticamente

Azure DevOps : / prep-treinamento-release / Pipelines / Releases / Release Web App Service / Release-9

Pipeline Variables History + Deploy Cancel Approve multiple Refresh Edit ...

Release Stages

Continuous deploy... for José Alexandre D'... 12/11/2022, 17:43

Artifacts Build 20221112.2 main

Deploy QA Pending approval On José Alexandre D'A...

Deploy Produção Not deployed

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Deploy em QA

prep_treinamento_vs Home Privacy

Release Pipeline com CI/CD - Dois Stages (QA + Produção)

Aprovação Post-Deployment do Stage de QA.
Learn about [building Web apps with ASP.NET Core](#).

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The screenshot shows the Azure DevOps interface for approving a release. The title bar says "Aprovar Release". The main area displays a "Deploy QA" stage under "Release-9" with a status of "Pending approval". A sidebar on the left lists various project management and development tools. On the right, there's a "Approvers" section showing "José Alexandre D'Abruzzo Pereira" as pending approval. A comment box contains the text "Aprovado!". Buttons for "Approve" and "Reject" are at the bottom.

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The screenshot shows the Azure DevOps interface displaying the completed status of a release. The title bar says "Deploy em Produção Concluído". The main area shows a "Release" summary and a "Stages" section. The "Stages" section includes two completed stages: "Deploy QA" (Succeeded) and "Deploy Produção" (Succeeded). The "Release" summary shows "Continuous deployment" for "José Alexandre D'Abruzzo Pereira" on 12/11/2022, 17:43. Artifacts listed are "Build 20221112.2" and "main".

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Gates no Release Pipelines

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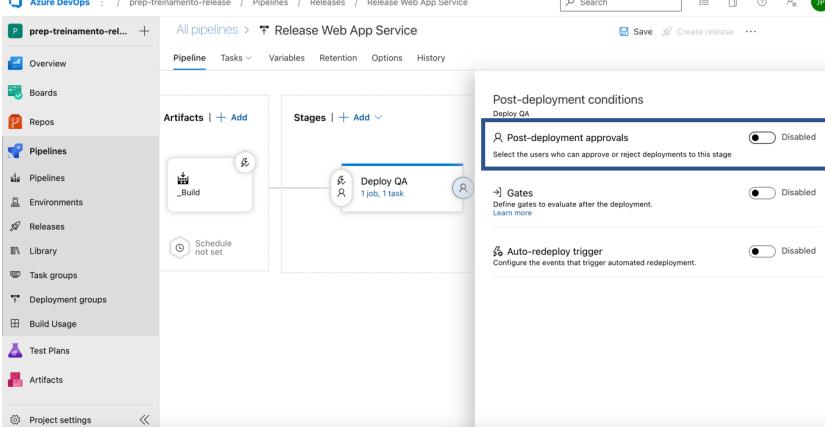
Gates

- Para Avaliar quanto tempo é preciso esperar para o “portão” ser aberto
- Quando o Gate pode estar aberto
- Tipos de Gates:
 - Check Azure Police Compliance
 - Invoke Azure Function
 - Invoke REST API
 - Query Azure Monitor Alerts
 - Query Work Items

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Desabilitar Post-Deployment Approval

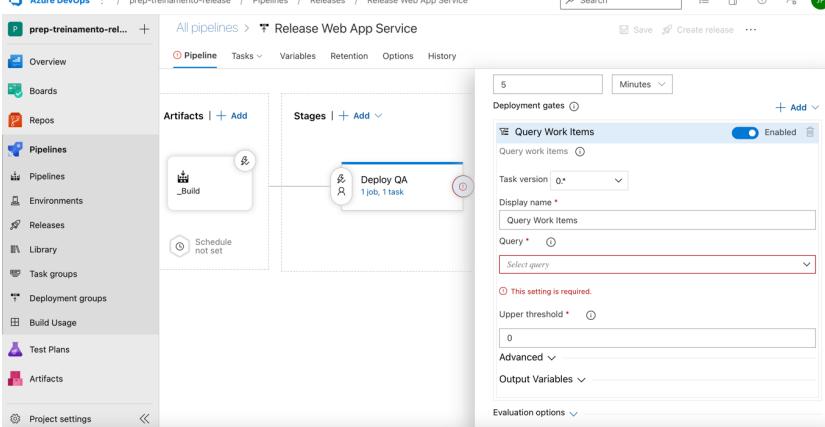


Azure DevOps Pipeline settings for 'Release Web App Service'. The 'Post-deployment conditions' section shows the 'Post-deployment approvals' toggle switch set to 'Disabled'.

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Gate - Query Work Items



Azure DevOps Pipeline settings for 'Release Web App Service'. The 'Deployment gates' section shows the 'Query Work Items' toggle switch set to 'Enabled'.

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Criar Nova Issue

ISSUE 7

7 Nova Issue (Gate)

To Do

Description

Discussion

Planning

Deployment

Development

Related Work

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Criar Query

Queries > My Queries

1 work item
1 selected

| ID | Work It... | Title | Assigned To | State | Tags |
|----|------------|-------------------|-------------|-------|------|
| 7 | Issue | Nova Issue (Gate) | ... | To Do | |

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Salvar Query

New query

Name: Issues Abertas

Folder: Shared Queries

OK Cancel

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É preciso dar permissão de leitura

Permissions for Shared Queries/Issues Abertas

Inheritance: On

prep-treinamento-release Build Service (joseadp-unicamp-ext-030)

| Permission | Value |
|--------------------|---------|
| Contribute | Not set |
| Delete | Not set |
| Manage Permissions | Not set |
| Read | Allow |

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Configurar Gate

Release Web App Service

Artifacts | + Add Stages | + Add

Pipeline Tasks Variables Retention Options History

Deployment gates

Query Work Items Enabled

Display name: Query Work Items

Query: Issues Abertas

Upper threshold: 0

Advanced

Lower threshold: 0

Output Variables

Evaluation options

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Alterar Index.cshtml e Commitar

Index.cshtml

```

1 <page
2   model IndexModel
3   @{
4     ViewData["Title"] = "Home page";
5   }
6
7   <div class="text-center">
8     <h1 class="display-4">Release Pipeline com CI/CD - Gates</h1>
9     <p>Learn about <a href="https://docs.microsoft.com/aspnet/core">building Web apps with ASP.NET Core</a></p>
10    </div>
11
12

```

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Build Pipeline Finalizado

The screenshot shows the Azure DevOps Pipelines interface for a completed build. The pipeline name is "prep-treinamento-release-vs". The summary indicates the run was triggered by José Alexandre D'Abruzzo Pereira, started just now, and lasted 1m 10s. One job, "Agent job 1", was successful. A note says this run is retained as one of 3 recent runs by main (Branch). A "View retention leases" button is available.

Jobs

| Name | Status | Duration |
|-------------|---------|----------|
| Agent job 1 | Success | 1m 0s |

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Gate em espera para ser verificado

The screenshot shows the Azure DevOps Releases interface for a deployment named "Release-10". The release is for the "Release Web App Service". The stages are "Deploy QA" (Processing gates) and "Deploy Produção" (Not deployed). The "Deploy QA" stage is currently active, indicated by a blue background. A note says "Evaluation to start in 3m". The pipeline section shows a continuous deployment for José Alexandre D'Abruzzo Pereira from 12/11/2022, 18:02. Artifacts show a build named "Build 20221112.3" from the main branch.

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Finalizar Work Item

The screenshot shows the Azure DevOps interface for a work item titled "7 Nova Issue (Gate)". The status is "Done" and the area is "prep-treinamento-release". The description field contains placeholder text: "Add a comment. Use # to link a work item, ! to link a pull request, or @ to mention a person." The right side of the screen displays sections for "Planning", "Deployment", and "Development". A blue circular badge in the bottom right corner indicates 115 notifications.

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Release Iniciado (ao final do tempo do gate)

The screenshot shows the Azure DevOps interface for a release pipeline titled "Release Web App Service > Release-10". The "Stages" section shows "Deploy QA" is "in progress" and "Deploy Produção" is "Not deployed". The left sidebar highlights the "Pipelines" section. A blue circular badge in the bottom right corner indicates 116 notifications.

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The screenshot shows the Azure DevOps interface for a release pipeline. At the top, a banner reads "Deploy feito em QA". Below it, the page title is "Release Pipeline com CI/CD - Gates". A sub-header says "Learn about [building Web apps with ASP.NET Core](#)". The main content area is mostly blank, indicating a deployment step. At the bottom, a footer bar includes the text "Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira" and a blue circular badge with the number "117".

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The screenshot shows the Azure DevOps interface for a release pipeline. At the top, a banner reads "Release Finalizado". Below it, the page title is "Release Pipeline com CI/CD - Gates". The main content area displays a completed release pipeline with two stages: "Deploy QA" and "Deploy Produção", both marked as "Succeeded". On the left, a sidebar shows the project structure with "Pipelines" selected. At the bottom, a footer bar includes the text "Curso de Extensão Tecnologias Microsoft – INF-0997 – Azure DevOps – Releases - Prof. José Alexandre D'Abruzzo Pereira" and a blue circular badge with the number "118".

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Dúvidas?



A large blue question mark is centered on the slide.

Azure DevOps –
Releases

josep@dei.uc.pt

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