

# MBA EM **ENGENHARIA DE SOFTWARE**

**Cloud Computing II (IaaS,  
PaaS, SaaS)**

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Lei nº 9610/98

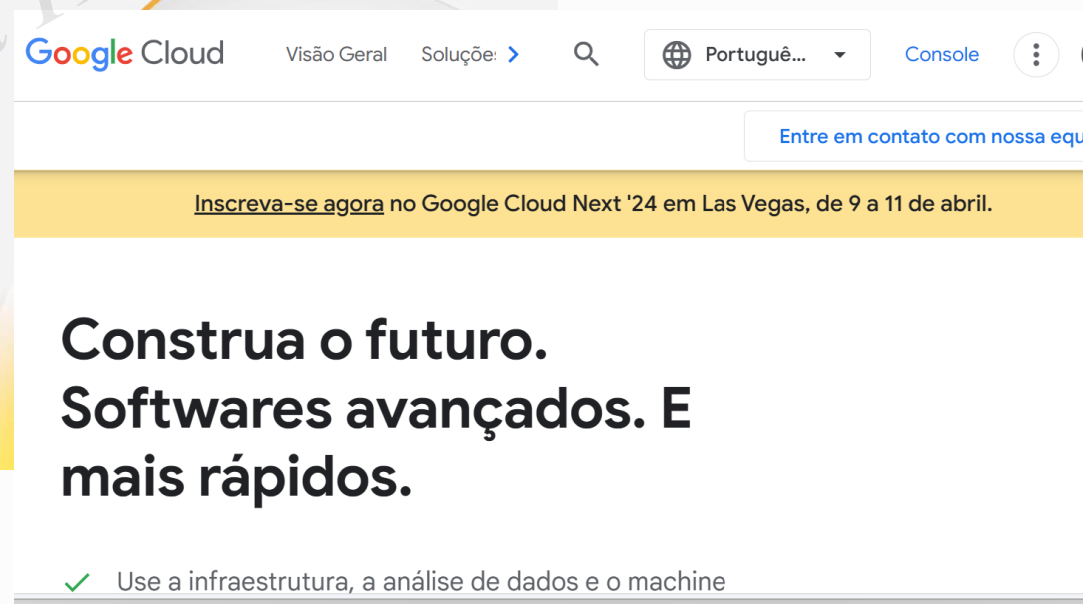
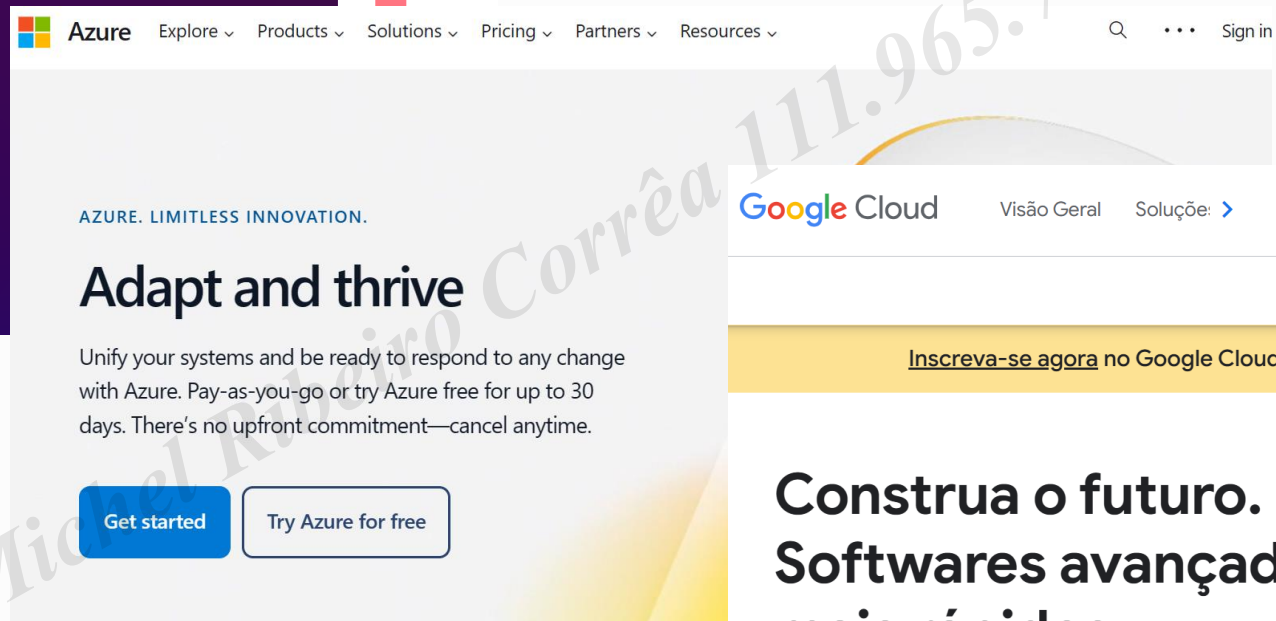
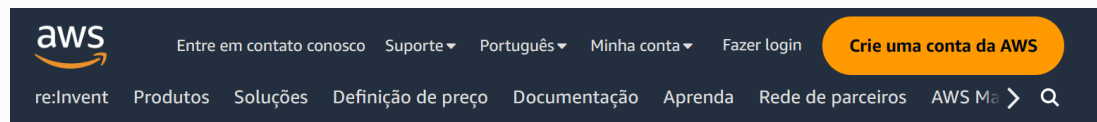
Michel Ribeiro Corrêa 111.965.766-02

# CLOUD COMPUTING

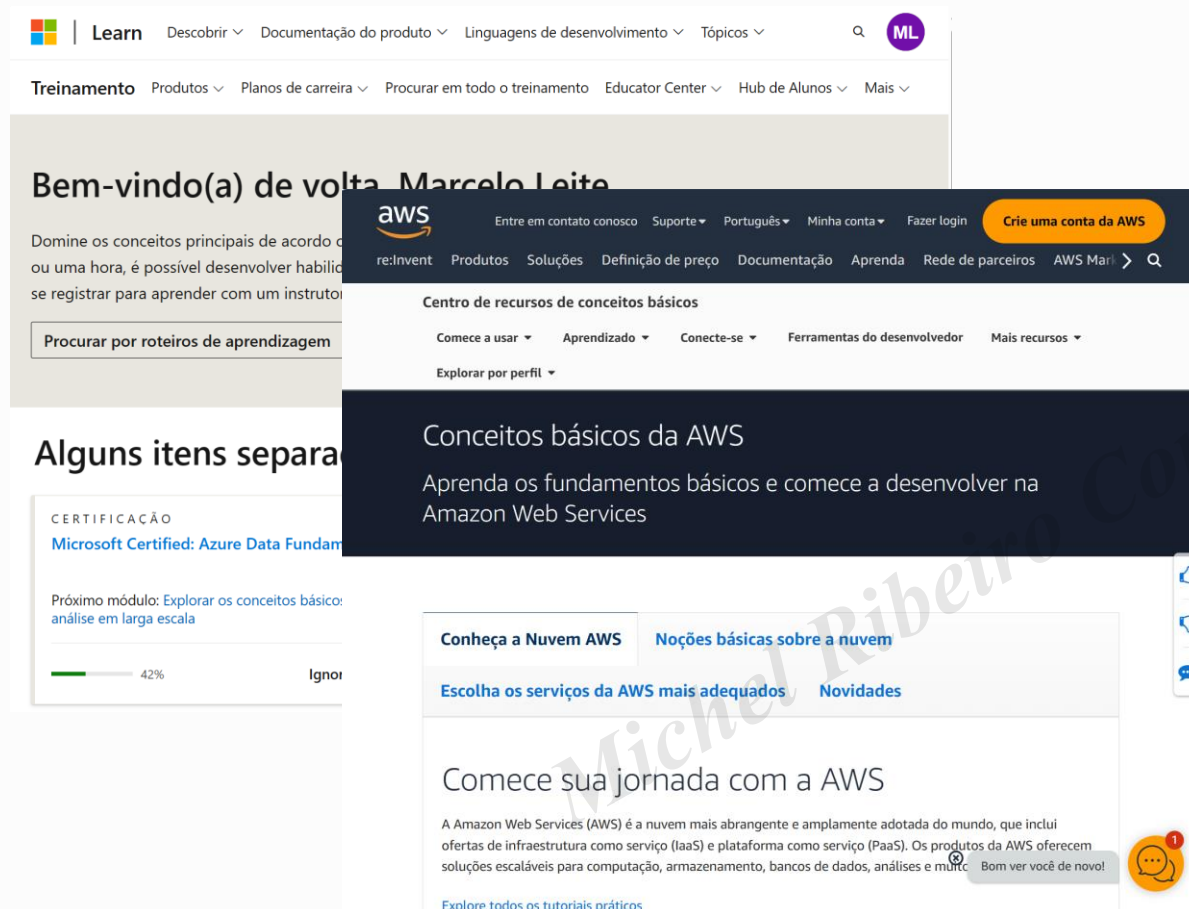
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**Provedores de Nuvem**

# Portais dos Provedores de Nuvem



# Portais de aprendizado



- Os provedores contam com portais de aprendizado, que podem ajudá-lo a conhecer as tecnologias específicas de cada provedor
- Guias de aprendizado para certificações podem ser encontrados
- Referência de arquiteturas e soluções para negócios

[O que é AWS? Como funciona Amazon Web Services](#)

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# CLOUD COMPUTING

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**Logar na Console**

# Console de navegação e controle de custos

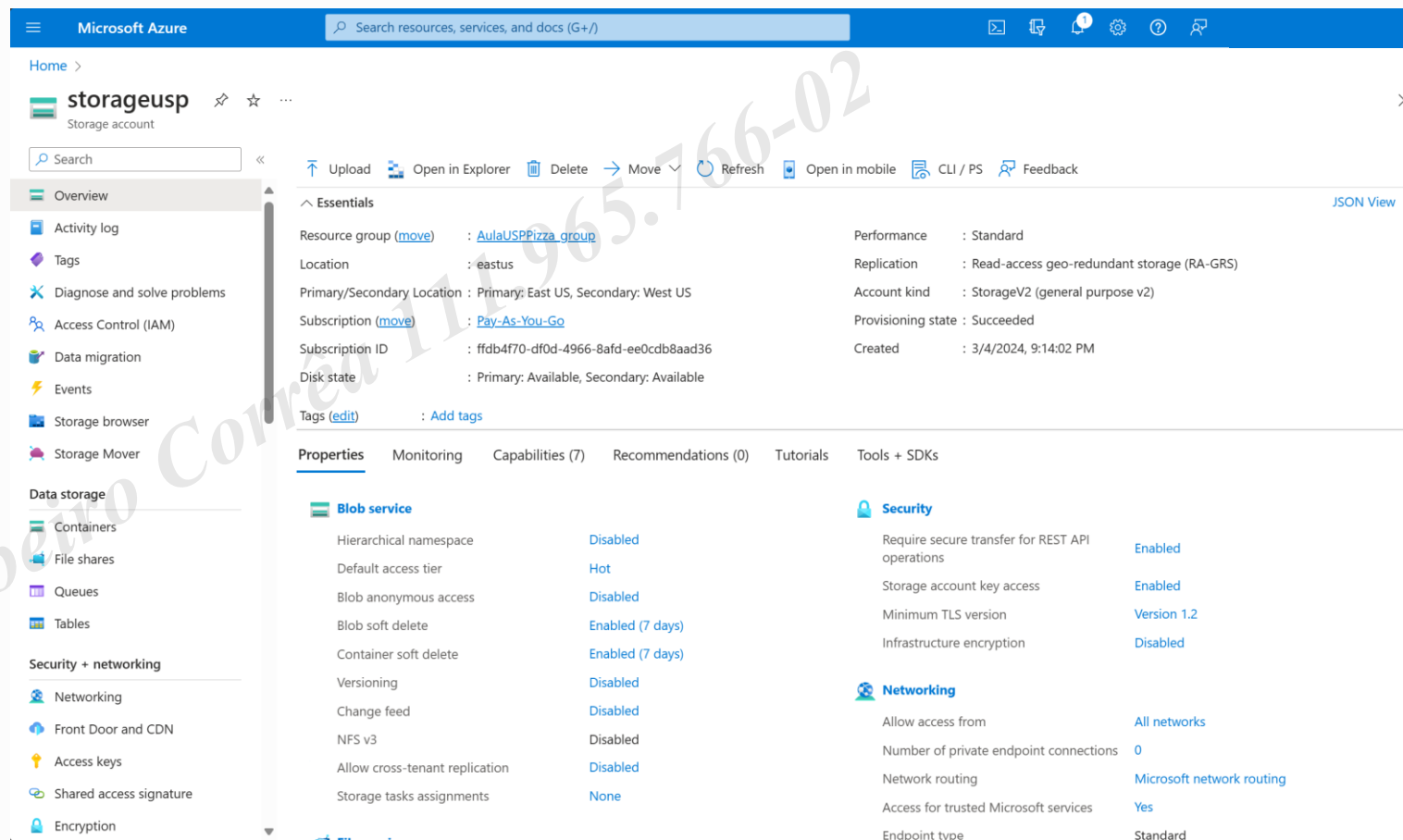
The screenshot displays the Microsoft Azure Cost Management console. The left sidebar contains navigation links for Overview, Access control, Diagnose and solve problems, Cost Management (with sub-links for Cost analysis, Cost alerts, Budgets, and Advisor recommendations), Billing (Invoices, Payment methods), and Products + services (Azure subscriptions, Reservations + Hybrid Benefit). The main content area is titled 'Cost Management: Pay-As-You-Go | Cost analysis'. It shows the scope as 'Pay-As-You-Go' and the current month as 'Mar 2024'. The cost summary for March 2024 is: Total (BRL) R\$7.12, Average R\$0.00 / day, and Budget: None. Below this, a table lists the resource groups and their costs:

Name	Subscription	Total ↓
> rgaulausp	Pay-As-You-Go	R\$7.09
> cloud-shell-storage-westus	Pay-As-You-Go	R\$0.04

- Configurações de língua e país
- Serviços de busca de serviços
- Notificações e suporte
- Marketplace de soluções
- Azure Cost Management para controle de orçamento e monitoramento de custos

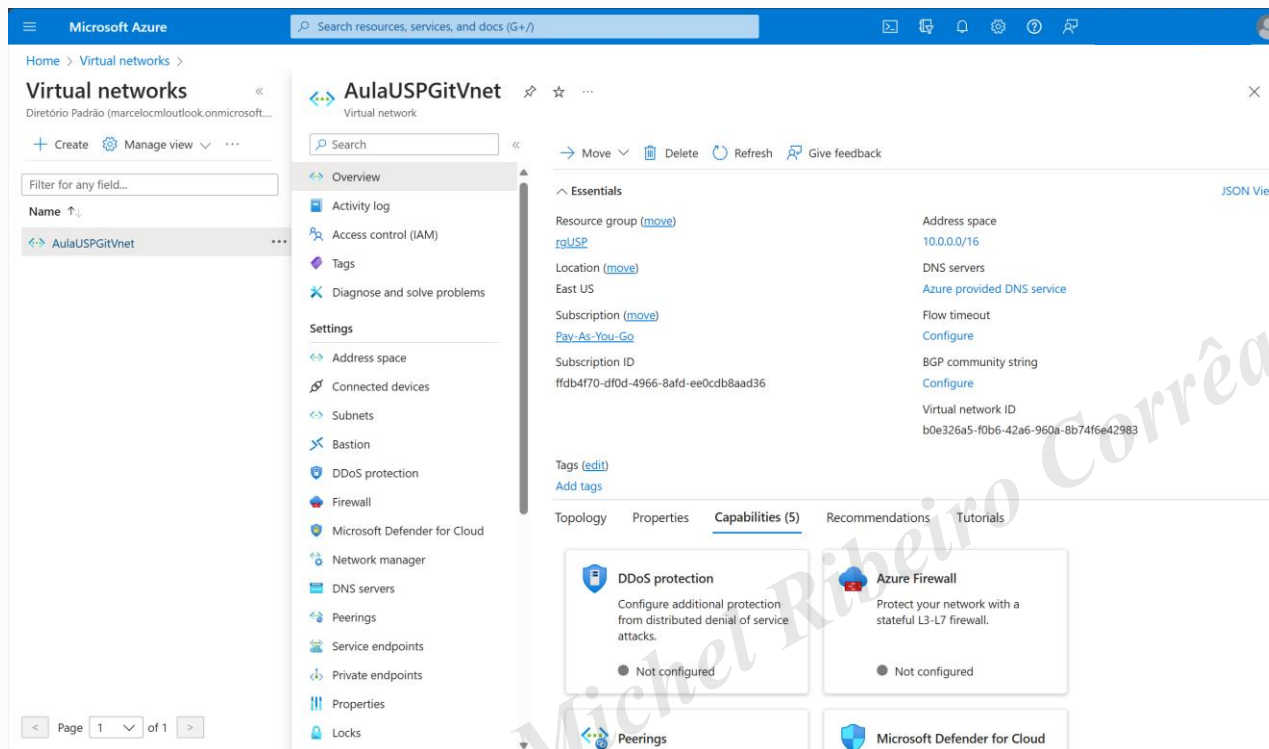
# Armazenamento em Nuvem

- Object Stores estão contidas dentro do serviço “Storage Accounts” no Azure
- Existem vários tipos de armazenamento dentro deste serviço
- Hot, Cold e Archive são tipos comuns entre os provedores de nuvem





# Redes em Nuvem



- vNets e Subnets completas com diversas possibilidades de configurações e topologias
- vNet peering para conexões entre ambientes
- Serviços de segurança opcionais
- Public and Private IPs

# CLOUD COMPUTING

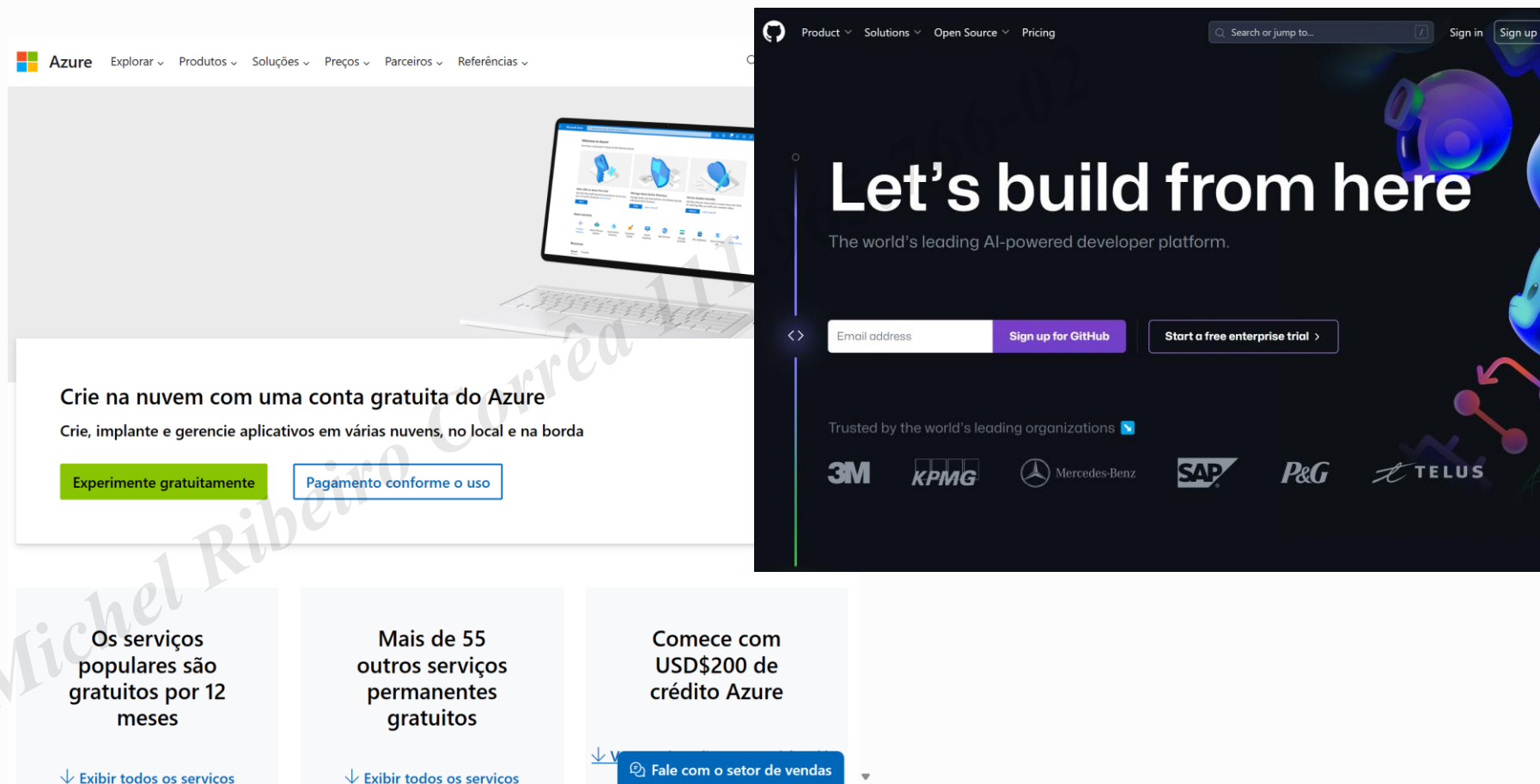
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**Primeira aplicação na Nuvem!**

# Hello World Application – Pré requisitos

Conta do Azure.com

Conta do GitHub.com



# Hello World Application

1) Faça o Fork da solução

<https://github.com/marcelocml/vanilla-basic>

2) Crie um “Static Web App” na console do Azure:

The screenshot shows the 'Create Static Web App' wizard in the Microsoft Azure portal. The 'Basics' tab is active, displaying the following configuration options:

- Subscription:** Pay-As-You-Go
- Resource Group:** (New) AulaUSP\_group (with a 'Create new' link)
- Static Web App details:**
  - Name:** AulaUSP (with a green checkmark)
- Hosting plan:**
  - Plan type:** Free: For hobby or personal projects (selected with a radio button)
  - Standard: For general purpose production apps
- Azure Functions and staging details:**
  - Region for Azure Functions API and staging environments:** Central US

At the bottom of the wizard, there are three buttons: 'Review + create' (highlighted in blue), '< Previous', and 'Next : Tags >'.

# Hello World Application

- 1) Conecte na sua conta GitHub
- 2) Autorize o acesso aos seus repositórios
- 3) Selecione a “Organization”, “Repository” e “Branch” para conexão com a solução que foi copiada do repositório GitHub
- 4) Clique em “Review + create”

The image shows two side-by-side screenshots of the Azure Static Web Apps creation process.

**Left Screenshot: Authorize Azure Static Web Apps**

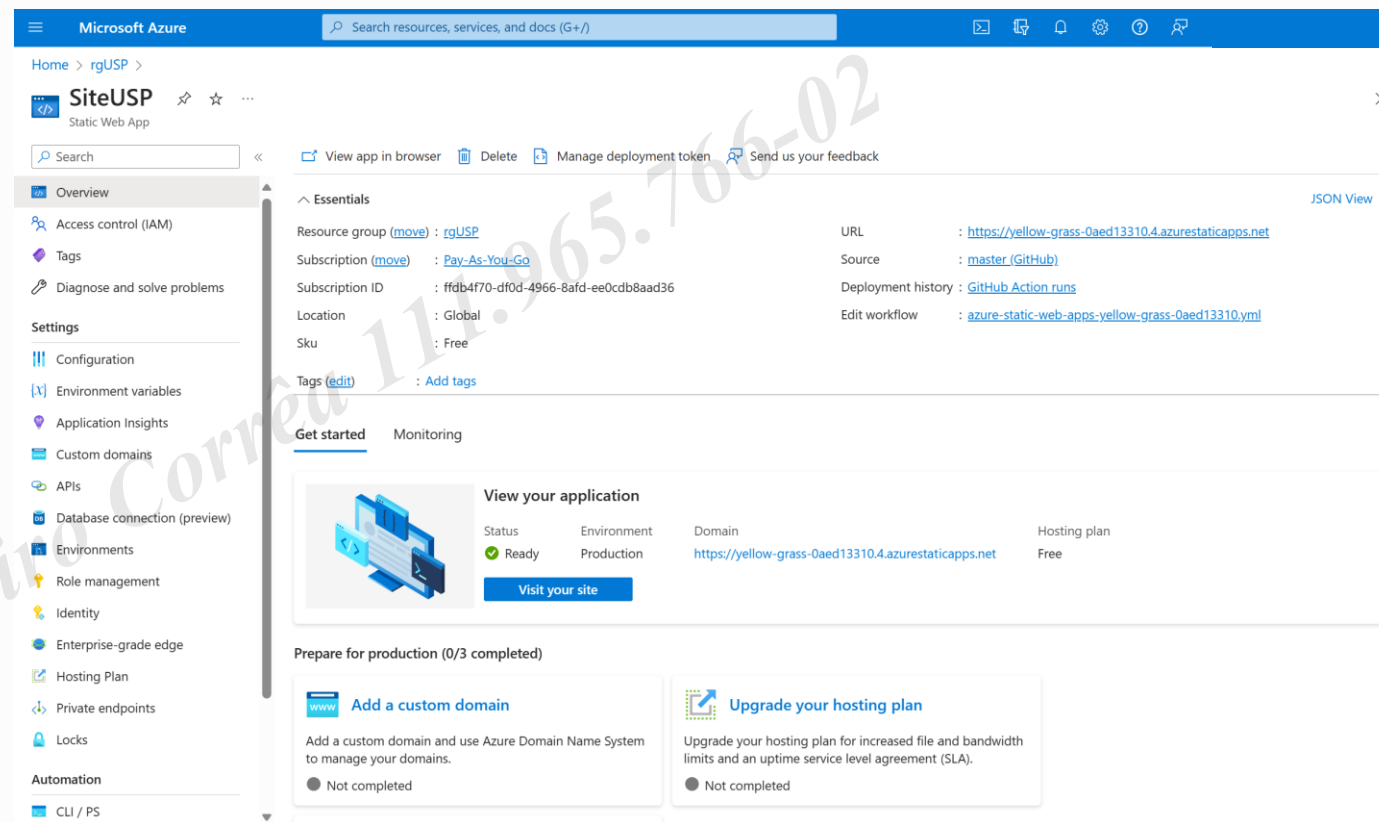
- Header: "Authorize Azure Static Web Apps" with icons for Azure and GitHub.
- Message: "Azure Static Web Apps by Azure App Service Static Web Apps wants to access your marcelocml account".
- Options: "Repositories" (Public and private), "Workflow" (Update GitHub Action Workflow files), and "Organization access" (PacktPublishing X).
- Buttons: "Cancel" and "Authorize Azure-App-Service-Static-Web-Apps".
- Footer: "Authorizing will redirect to https://functions.azure.com".

**Right Screenshot: Create Static Web App**

- Section: "Deployment details".
- Source: Radio buttons for "GitHub" (selected), "Azure DevOps", and "Other".
- GitHub account: "marcelocml" with a "Change account" link.
- Information box: "If you can't find an organization or repository, you might need to enable additional permissions on GitHub. You must have write access to your chosen repository to deploy with GitHub Actions."
- Fields: "Organization" (marcelocml), "Repository" (static-website-example), and "Branch" (master).
- Section: "Build Details".
- Text: "Enter values to create a GitHub Actions workflow file for build and release. You can modify the workflow file later in your GitHub repository."
- Field: "Build Presets" (empty dropdown).
- Text: "These fields will reflect the app type's default project structure. Change the values to suit your app. Learn more".
- Section: "Workflow configuration".
- Text: "File with the GitHub Actions workflow configuration."
- Button: "Preview workflow file".
- Footer: "Review + create", "< Previous", and "Next : Tags >" buttons.

# Hello World Application

- 1) Clique na URL do seu site para abri-lo
- 2) Revise as configurações de IAM
- 3) Revise as opções na aba “Settings”



# Obrigado(a)!

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