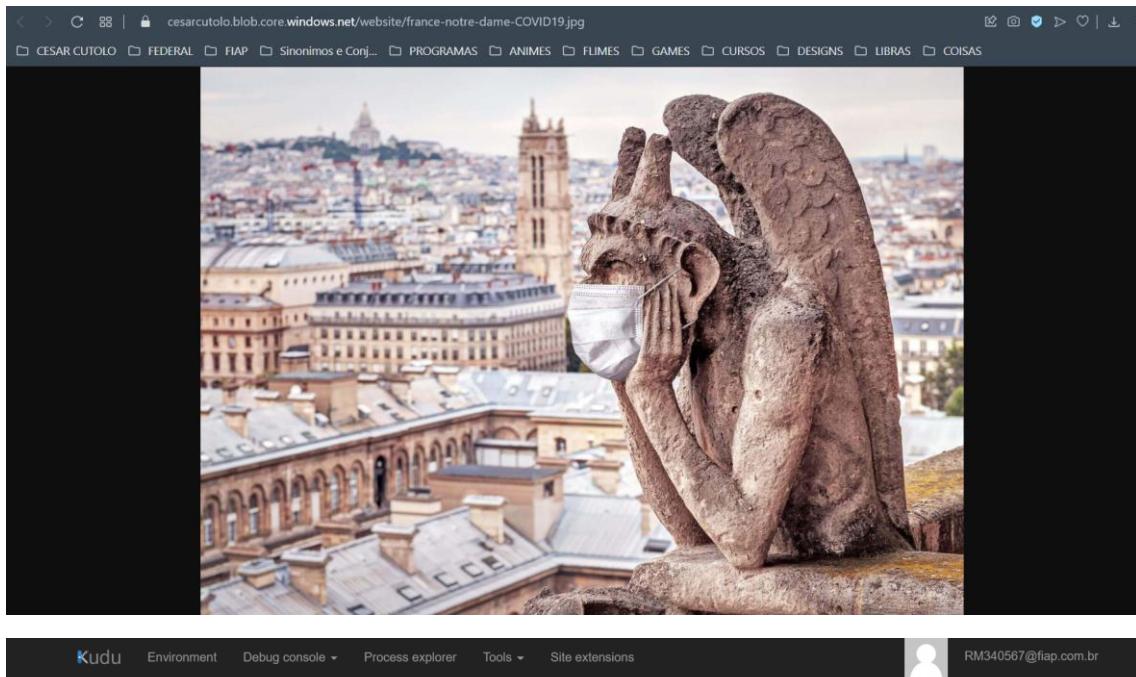


# Cesar Augusto Cutolo

RA: 340567

16/11/2021

**AULA 2 - Como implementar um ambiente no Azure do zero (IaaS) - Topologia de Rede (Diagram) e Como implementar um storage e fazer o upload de uma imagem**



Kudu   Environment   Debug console ▾   Process explorer   Tools ▾   Site extensions

RM340567@fiap.com.br

Environment

Build	95.30831.5373.0 (82c4b1c0eb)
Azure App Service	96.0.7.599
Site up time	00.00:52:00
Site folder	C:\home
Temp folder	C:\local\Temp\

REST API (works best when using a JSON viewer extension)

- App Settings
- Deployments
- Source control info
- Files
- Log streaming (use curl, not browser!)
- Processes and mini-dumps
- Runtime versions
- Site Extensions: installed | feed
- Web hooks
- WebJobs: all | triggered | continuous
- Functions: list | host config

More information about Kudu can be found on the [wiki](#).

< > C 🔒 cesarcutolotop-websitecesarcutolotoprd2.azurewebsites.net

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## Ei, desenvolvedores do Serviço de Aplicativo!

O seu serviço de aplicativo está em funcionamento.  
Está na hora de executar a próxima etapa e implantar o seu código.

Preparou o seu código?  
Use a central de implantação para obter o código publicado do cliente ou a implantação contínua de configuração.

Ainda não tem o seu código?  
Siga o nosso guia de início rápido e você terá um aplicativo completo pronto em 5 minutos ou menos.



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< > C 🔒 cesarcutolotop.scm.azurewebsites.net/SiteExtensions/#gallery

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Kudu

Environment

Debug console ▾

Process explorer

Tools ▾

Site extensions



RM340567@fiap.com.br

Installed

Gallery

Site Extension

Search

Clear

Restart Site

.NET + ⚙

**ASP.NET Core Logging Integration**  
Version 6.0.0  
By Microsoft  
This site extension enables logging integration for ASP.NET Core applications on Azure App Service. This package was built from the source code at

.NET + ⚙

**New Relic**  
Version 1.5.2  
By New Relic  
This extension adds the New Relic .NET Agent to your Azure WebSite.

.NET + ⚙

**IIS.Compression Site Extension**  
Version 3.0.0  
By shibayan  
IIS.Compression (better gzip and brotli support) for Azure App Service

.NET + ⚙

**Azure Let's Encrypt**  
Version 1.0.6  
By SJKP  
Site extension for easy install and renewals of Let's Encrypt SSL certificates. The extension uses web jobs, so ensure that you have web job

.NET + ⚙

**AppDynamics.WindowsAzure.SiteExtension**  
Version 4.5  
By AppDynamics Inc.  
Manage the performance of your Windows Azure Apps with AppDynamics.

.NET + ⚙

**File Counter**  
Version 1.0.20  
By David Ebbo  
A sample Site Extension that counts the number of files in the web root

.NET + ⚙

**IIS Manager**  
Version 1.2.1  
By shibayan  
IIS Manager Extension for Azure Web Apps

**Página inicial > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20211116230650 | Visão Geral**

**Implantação**

**Visão Geral**

**Entradas**

**Saídas**

**Modelo**

**Detalhes de implantação (Baixar)**

Recurso	Tipo	Status	Detalhes da operação
Nenhum resultado.			

**Página inicial > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20211116230650 > teste**

**Máquina virtual**

**Conectar** **Iniciar** **Reiniciar** **Parar** **Capturar** **Excluir** **Atualizar** **Abrir no celular** **CLI / PS** **Comentários**

**Log de atividade**

**IAM (Controle de acesso)**

**Marcações**

**Diagnosticar e resolver problemas**

**Configurações**

**Rede**

**Conectar**

**Windows Admin Center (versão prévia)**

**Discos**

**Tamanho**

**Segurança**

**Fundamentos**

Grupo de recursos (Mover) : fiapalu02

Status : Running

Local : Sul do Brasil

Assinatura (Mover) : Azure for Students

ID da Assinatura : f24cffa9-a957-4194-adbf-b58e6f326772

Marcações (Editar) : Clique aqui para adicionar marcações

**Propriedades** **Monitoramento** **Funcionalidades (8)** **Recomendações** **Tutoriais**

**Máquina virtual**

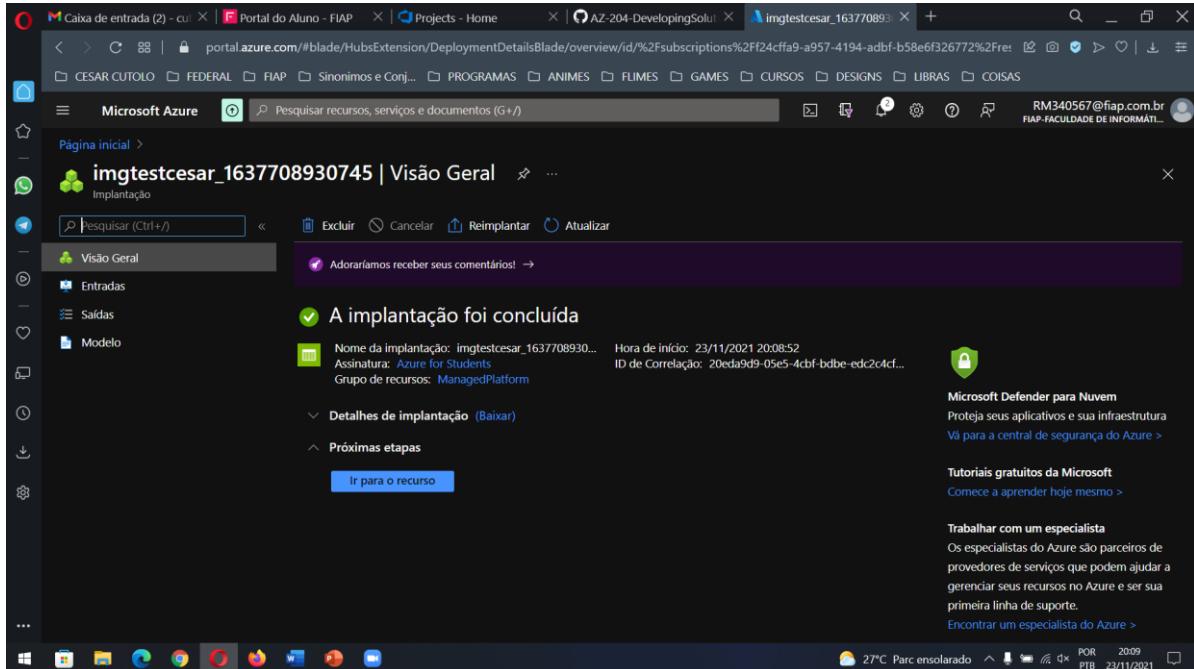
Nome do computador	teste
Estado de integridade	-
Sistema operacional	Windows

**Rede**

Endereço IP público	20.195.225.87
Endereço IP público (IPv6)	-
Endereço IP privado	10.0.0.4

23/11/2021

## AULA 3 - Como publicar uma API no Azure (PaaS) - Upload de Imagens



Caixa de entrada (2) - cui | Portal do Aluno - FIAP | Projects - Home | AZ-204-DevelopingSolut... | imgtestcesar\_1637708930745 | +

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Microsoft Azure Pesquisar recursos, serviços e documentos (G+/)

Página inicial > imgtestcesar\_1637708930745 | Visão Geral

Visão Geral

Excluir Cancelar Reimplantar Atualizar

Adoraríamos receber seus comentários! →

A implantação foi concluída

Nome da implantação: imgtestcesar\_1637708930745 Hora de início: 23/11/2021 20:08:52  
Assinatura: Azure for Students ID de Correlação: 20eda9d9-05e5-4cbf-bdbe-edc24cf...  
Grupo de recursos: ManagedPlatform

Detalhes de implantação (Baixar)

Próximas etapas

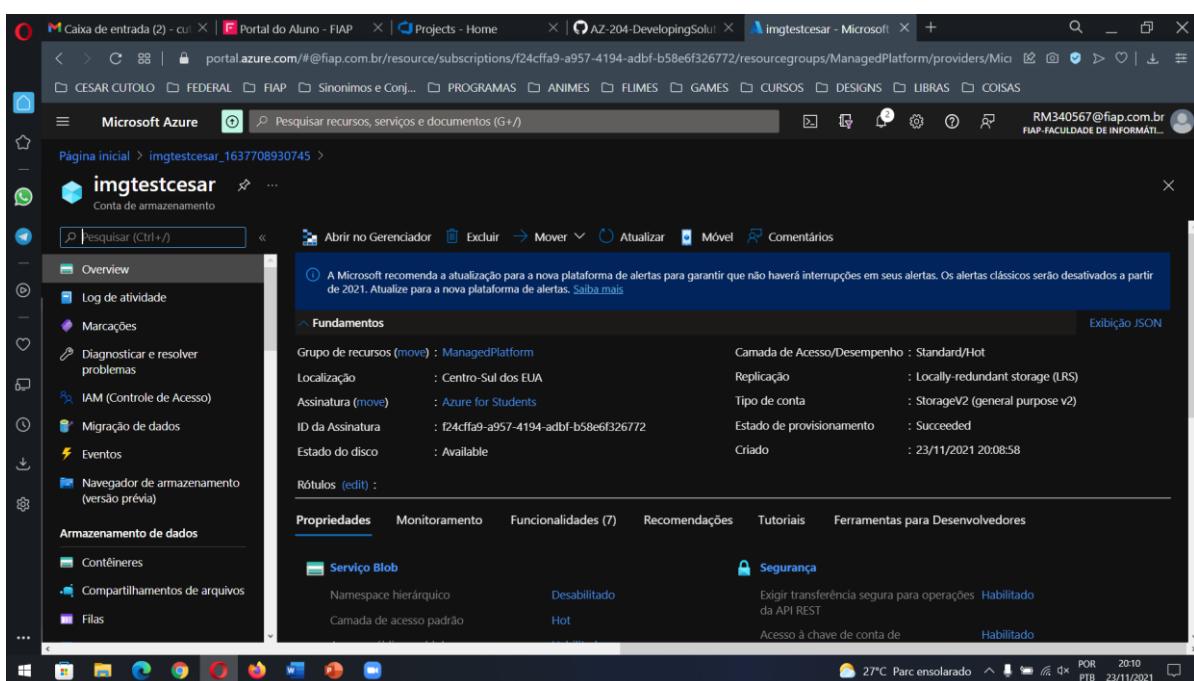
Ir para o recurso

Microsoft Defender para Nuvem  
Proteja seus aplicativos e sua infraestrutura  
Vá para a central de segurança do Azure >

Tutoriais gratuitos da Microsoft  
Comece a aprender hoje mesmo >

Trabalhar com um especialista  
Os especialistas do Azure são parceiros de provedores de serviços que podem ajudar a gerenciar seus recursos no Azure e ser sua primeira linha de suporte.  
Encontrar um especialista do Azure >

27°C Parc ensolarado POR PTB 2009 23/11/2021



Caixa de entrada (2) - cui | Portal do Aluno - FIAP | Projects - Home | AZ-204-DevelopingSolut... | imgtestcesar - Microsoft | +

CESAR CUTOLO FEDERAL FIAP Sinônimos e Conj... PROGRAMAS ANIMES FLIMES GAMES CURSOS DESIGNS LIBRAS COISAS

Microsoft Azure Pesquisar recursos, serviços e documentos (G+/)

Página inicial > imgtestcesar\_1637708930745 >

imgtestcesar Conta de armazenamento

Overview Log de atividade Marcações Diagnóstico e resolver problemas IAM (Controle de Acesso) Migração de dados Eventos Navegador de armazenamento (versão prévia) Armazenamento de dados Contêineres Compartilhamentos de arquivos Filas

A Microsoft recomenda a atualização para a nova plataforma de alertas para garantir que não haverá interrupções em seus alertas. Os alertas clássicos serão desativados a partir de 2021. Atualize para a nova plataforma de alertas. Saiba mais.

Fundamentos

Grupo de recursos (move) : ManagedPlatform Localização : Centro-Sul dos EUA Assinatura (move) : Azure for Students ID da Assinatura : f24cffa9-a957-4194-adbf-b58e6f326772 Estado do disco : Available

Camada de Acesso/Desempenho : Standard/Hot Replicação : Locally-redundant storage (LRS) Tipo de conta : StorageV2 (general purpose v2) Estado de provisionamento : Sucedido Criado : 23/11/2021 20:08:58

Rótulos (edit) :

Propriedades Monitoramento Funcionalidades (7) Recomendações Tutoriais Ferramentas para Desenvolvedores

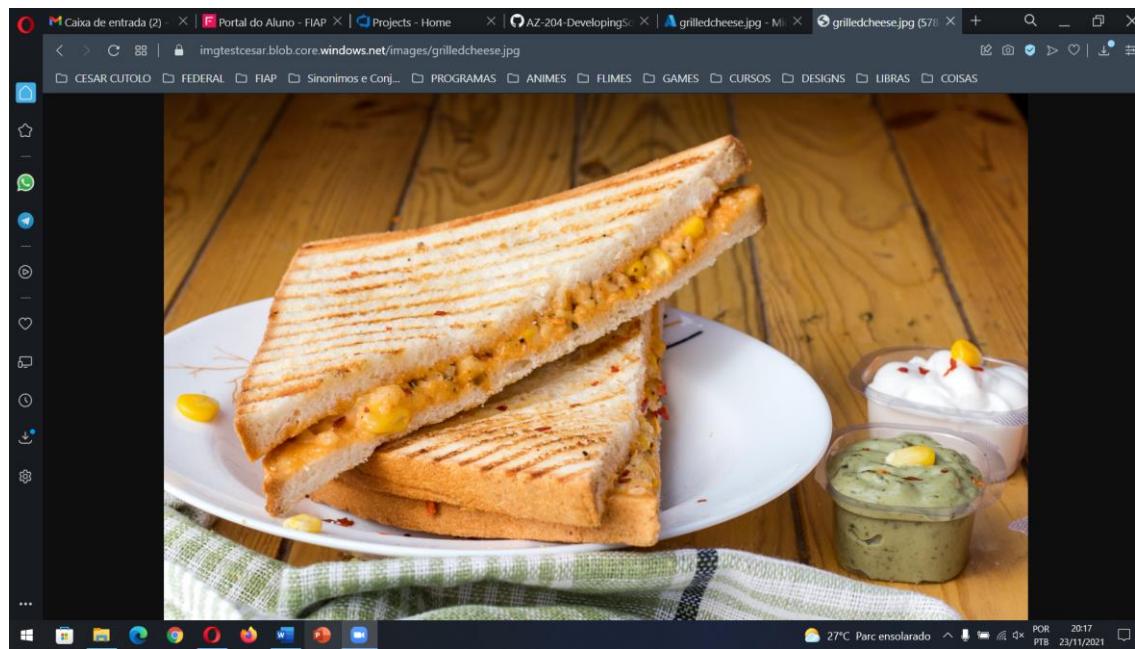
Serviço Blob Namespace hierárquico Desabilitado Camada de acesso padrão Hot

Segurança Exigir transferência segura para operações Habilitado da API REST Acesso à chave de conta de Habilitado

27°C Parc ensolarado POR PTB 2010 23/11/2021

DefaultEndpointsProtocol=https;AccountName=imgtestcesar;AccountKey=T6V7gXPhZonRvgZ1cW3GgJ7k/9/8gOPFyoOepA49Fh6nEGZ1YxJO8P6zek6SXSwNrFby3bk8pQE9K9n6O2jwsA==;EndpointSuffix=core.windows.net

<https://imgtestcesar.blob.core.windows.net/images/grilledcheese.jpg>



A screenshot of the Microsoft Azure portal. The main page displays a deployment summary for a 'Microsoft.Web-WebApp-Portal' instance. It shows a green checkmark indicating the deployment was successful. The summary includes details like the deployment name, start time (23/11/2021 20:27:14), and resource group (ManagedPlatform). On the right side, there are promotional banners for Microsoft Defender for Cloud, free Microsoft tutorials, and Azure support specialists. The taskbar at the bottom shows the date/time as 23/11/2021.

<https://imgapitestecesar.azurewebsites.net>

```
az webapp deployment source config-zip --resource-group ManagedPlatform --src api.zip --name <name-of-your-api-app>
```

**imgapitestecesar**

```
az webapp deployment source config-zip --resource-group ManagedPlatform --src api.zip --name imgapitestecesar
```

Página inicial > Microsoft.Web-WebApp-Portal-0a03003c-aa10 > imgapitestecesar > ManagedPlatform

	Serviço de Aplicativo	Austrália Central
imgapitestecesar	Conteúdo de armazenamento	Centro-Sul dos EUA
imgtestcesar	Plano do Serviço de Aplicativo	Austrália Central
ManagedPlan		

```
Bash
...
"last_success_end_time": "2021-11-23T23:40:53.8792814Z",
"log_url": "https://imgapitestecesar.scm.azurewebsites.net/api/deployments/latest/log",
"message": "Created via a push deployment",
"progress": "",
"provisioning_state": "Succeeded",
"received_time": "2021-11-23T23:40:44.8337559Z",
"site_name": "imgapitestecesar",
"start_time": "2021-11-23T23:40:45.146257Z",
"status": 4,
"status_text": "",
"url": "https://imgapitestecesar.scm.azurewebsites.net/api/deployments/latest"
}
cesar@Azure:~$
```

<https://imgapitestecesar.scm.azurewebsites.net/api/deployments/latest>

## StorageConnectionString.

imgapitestecesar | Configuração

Name	Value	Source	Deployment slot setting
ANCM_ADDITIONAL_ERROR_PAGE_LINK	https://imgapitestecesar.scm.azurewebsites.net/api/deployments/latest	App Service Config	
StorageConnectionString	Hidden value. Click to show value	App Service Config	

Connection strings

Connection strings are encrypted at rest and transmitted over an encrypted channel.

Name	Value	Source	Deployment slot setting
StorageConnectionString	Hidden value. Click to show value	App Service Config	

Página inicial > Microsoft.Web-WebApp-Portal-0a03003c-aa10 > imgapitestcesar > ManagedPlatform > imgapitestcesar

## imgapitestcesar | Configuração

Application settings

Application settings are encrypted at rest and transmitted over an encrypted channel. You can choose to display them in plain text in your browser by using the controls below. Application Settings are exposed as environment variables for access by your application at runtime. [Learn more](#)

New application setting Show values Advanced edit

Filter application settings

Name	Value	Source	Deployment slot setting	Di
ANCM_ADDITIONAL_ERROR_PAGE_LINK	Hidden value. Click to show value	App Service Config		
StorageConnectionString	Hidden value. Click to show value	App Service Config		

Connection strings

Connection strings are encrypted at rest and transmitted over an encrypted channel.

["https://imgapitestcesar.blob.core.windows.net/images/grilledcheese.jpg"]

Microsoft.Web-WebApp-Portal-0173b453-b31c | Visão Geral

A implantação foi concluída

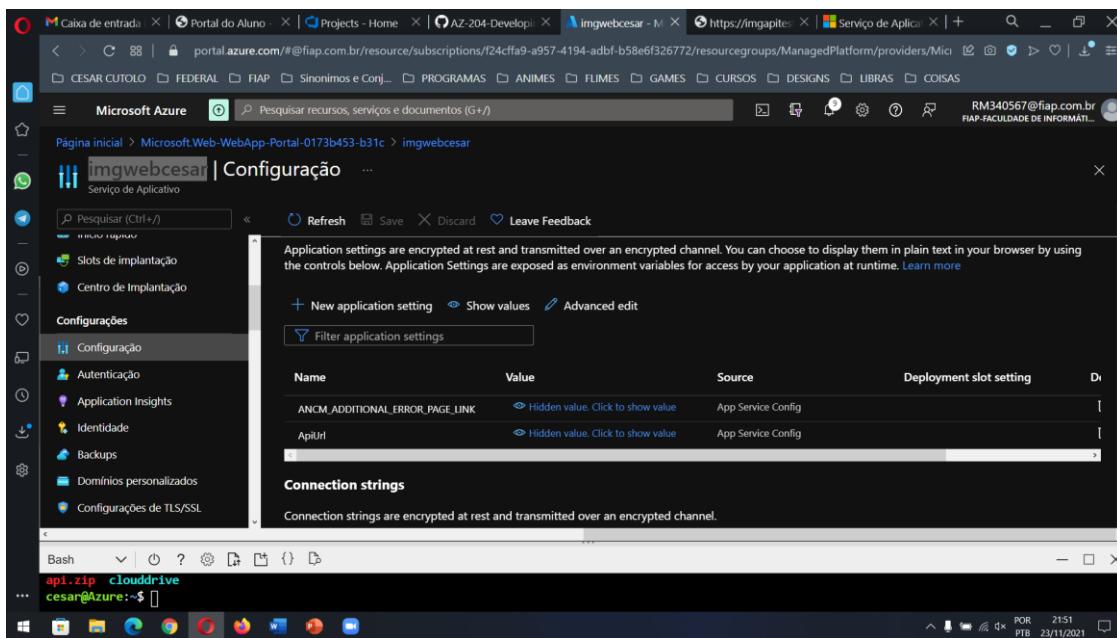
Nome da implantação: Microsoft.Web-WebApp-Portal-0173b453... Hora de início: 23/11/2021 21:47:16  
Assinatura: Azure for Students ID de Correlação: cdd479a-25ca-47b7-b5f9-d5c082c5...

Detalhes de implantação (Baixar)

Próximas etapas

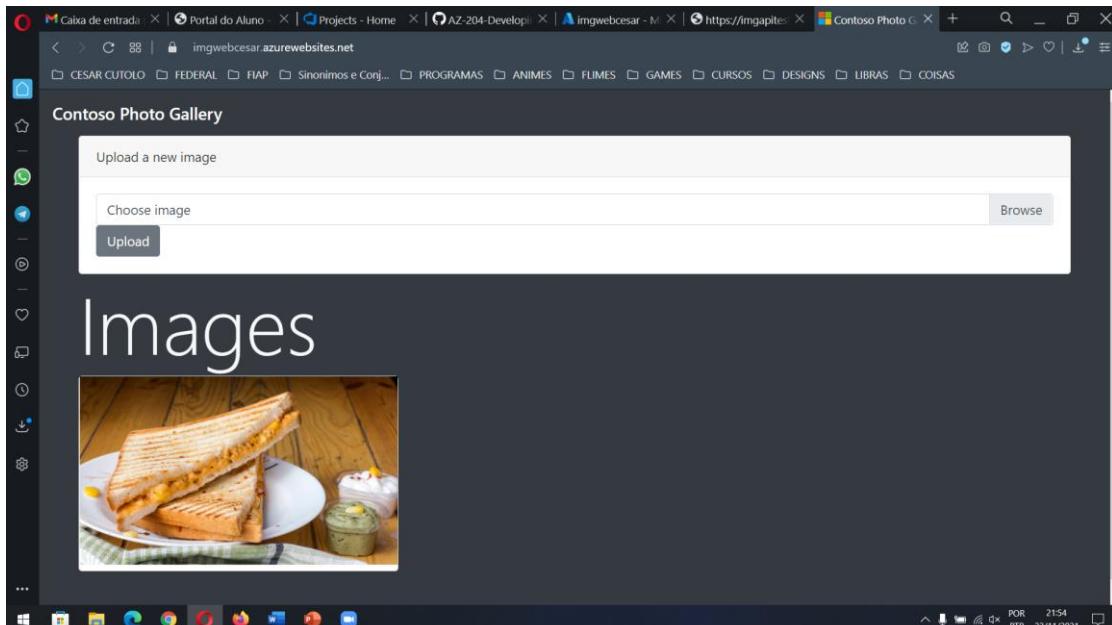
Ir para o recurso

# imgwebcesar

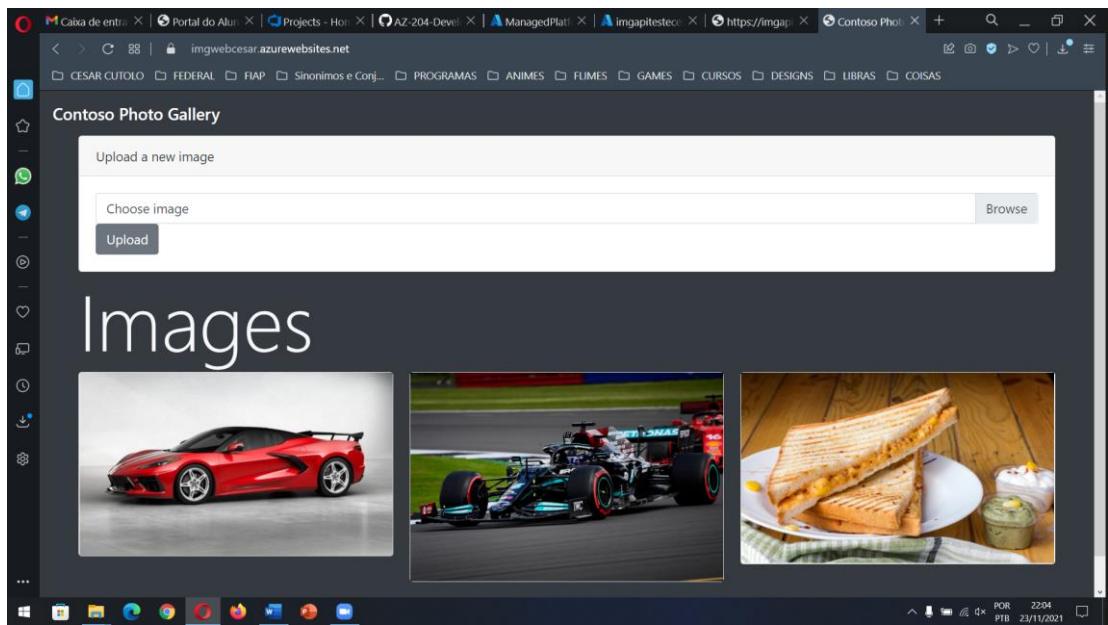


```
az webapp deployment source config-zip --resource-group ManagedPlatform --src web.zip --name <name-of-your-web-app>
```

```
az webapp deployment source config-zip --resource-group ManagedPlatform --src web.zip --name imgwebcesar
```



<https://imgwebcesar.azurewebsites.net>

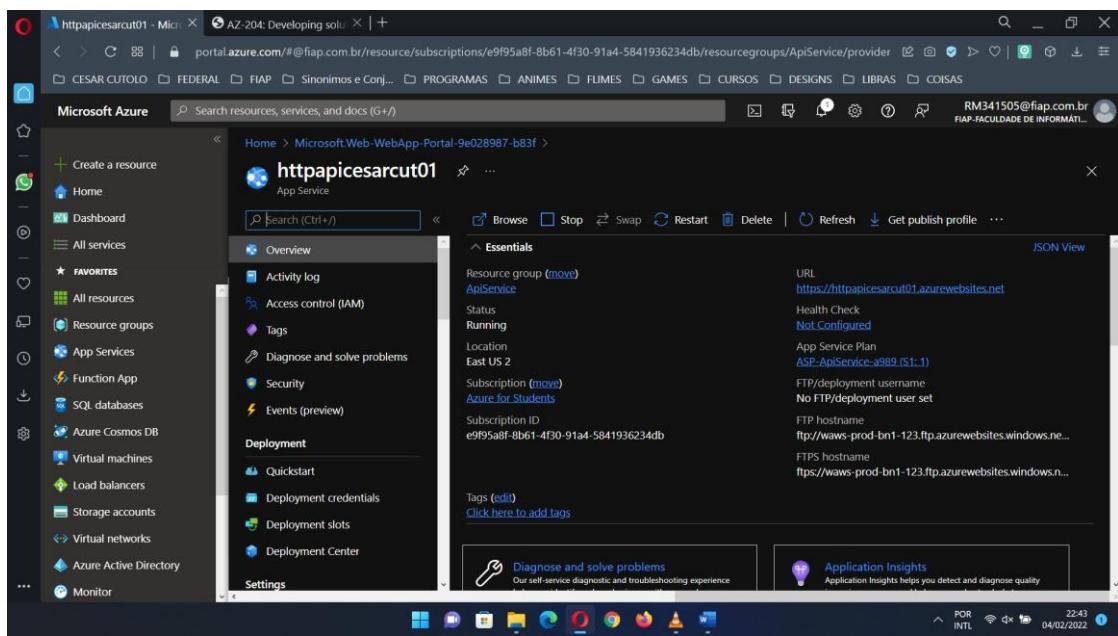
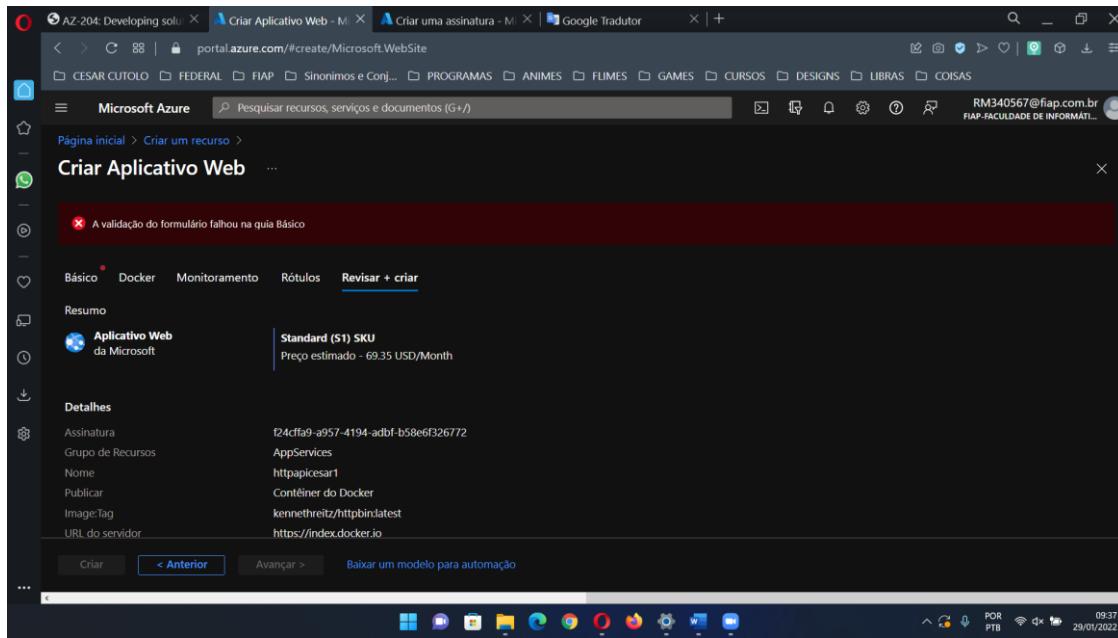


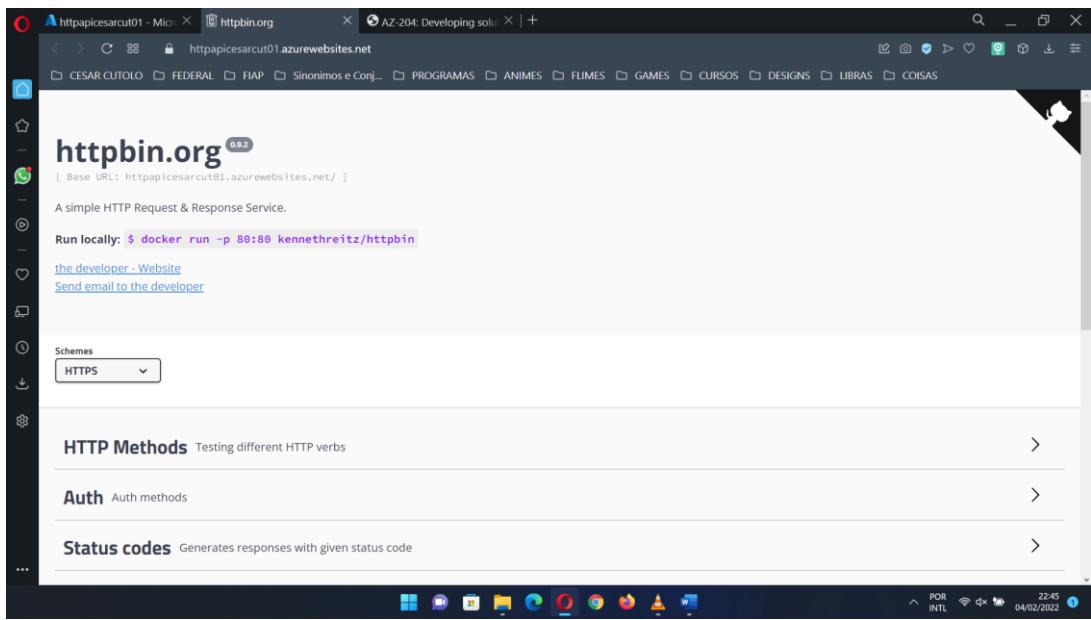
[https://github.com/MicrosoftLearning/AZ-204-DevelopingSolutionsforMicrosoftAzure/blob/master/Instructions/Labs/AZ-204\\_lab\\_01.md](https://github.com/MicrosoftLearning/AZ-204-DevelopingSolutionsforMicrosoftAzure/blob/master/Instructions/Labs/AZ-204_lab_01.md)

29/01/2022

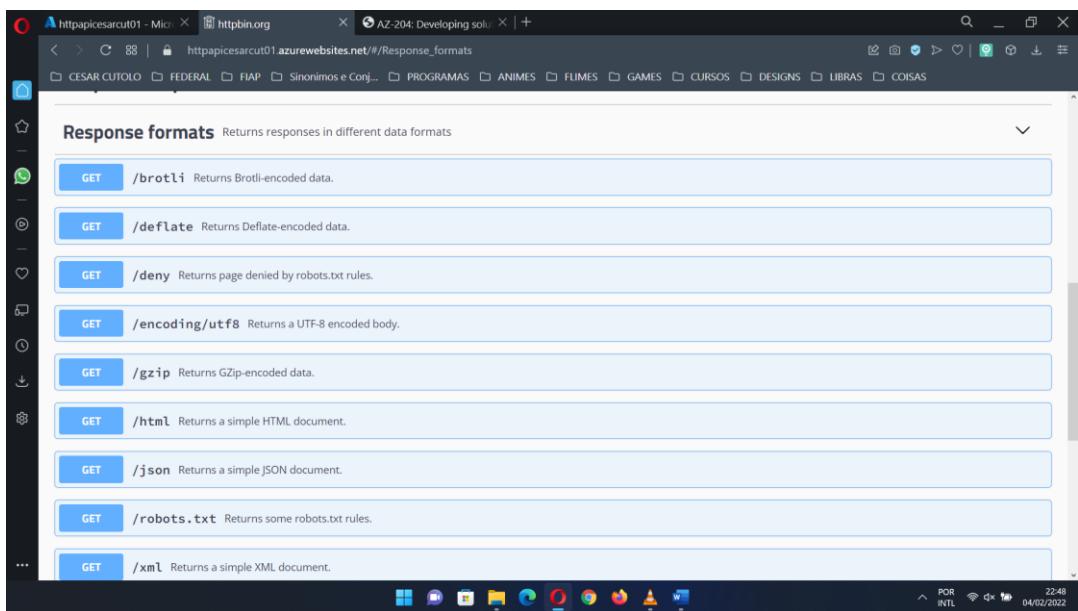
## AULA 4 - Publicar API via API Management

[https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204\\_lab\\_08.html](https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204_lab_08.html)





<https://httpapicesarcut01.azurewebsites.net>



A httpapicesarcut01 - Microsoft Edge httpbin.org AZ-204: Developing solu... | +

< > C 88 | https://httpapicesarcut01.azurewebsites.net/#/Response\_formats/get\_html

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GET /gzip Returns GZip-encoded data.

GET /html Returns a simple HTML document.

Parameters

No parameters

Responses

Code Description

200 An HTML page.

Try it out

GET /json Returns a simple JSON document.

GET /robots.txt Returns some robots.txt rules.

POR INTL 22:48 04/02/2022

A httpapicesarcut01 - Microsoft Edge httpbin.org AZ-204: Developing solu... | +

< > C 88 | https://httpapicesarcut01.azurewebsites.net/#/Response\_formats/get\_html

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Server response

Code Details

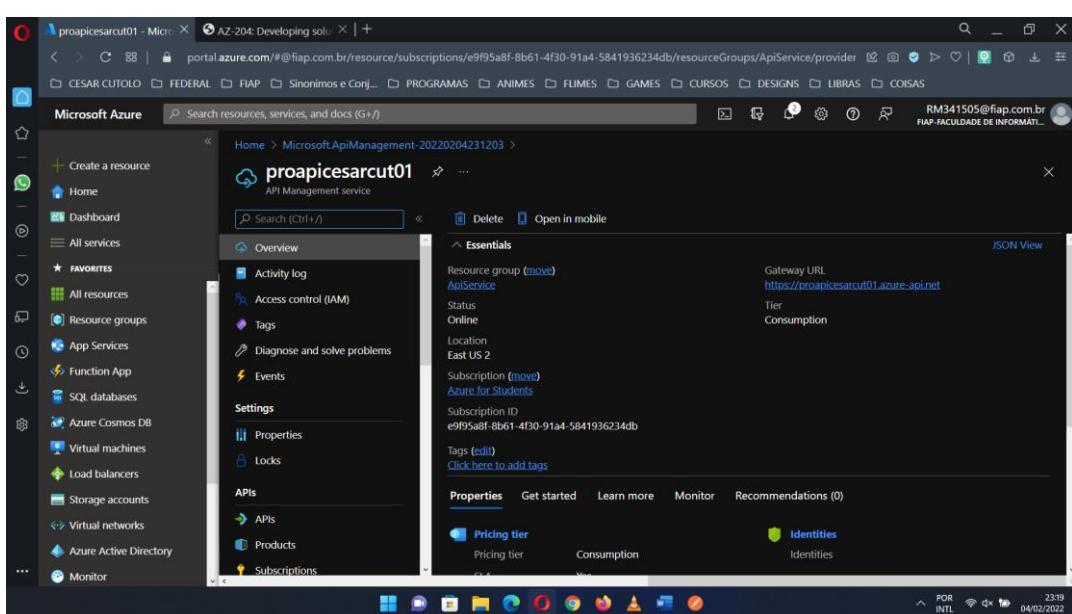
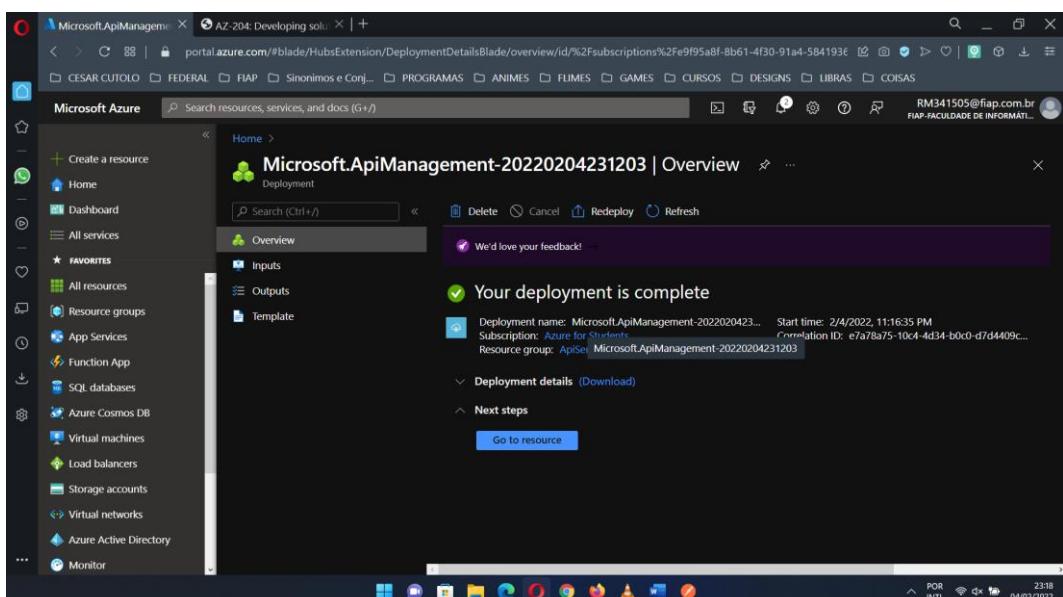
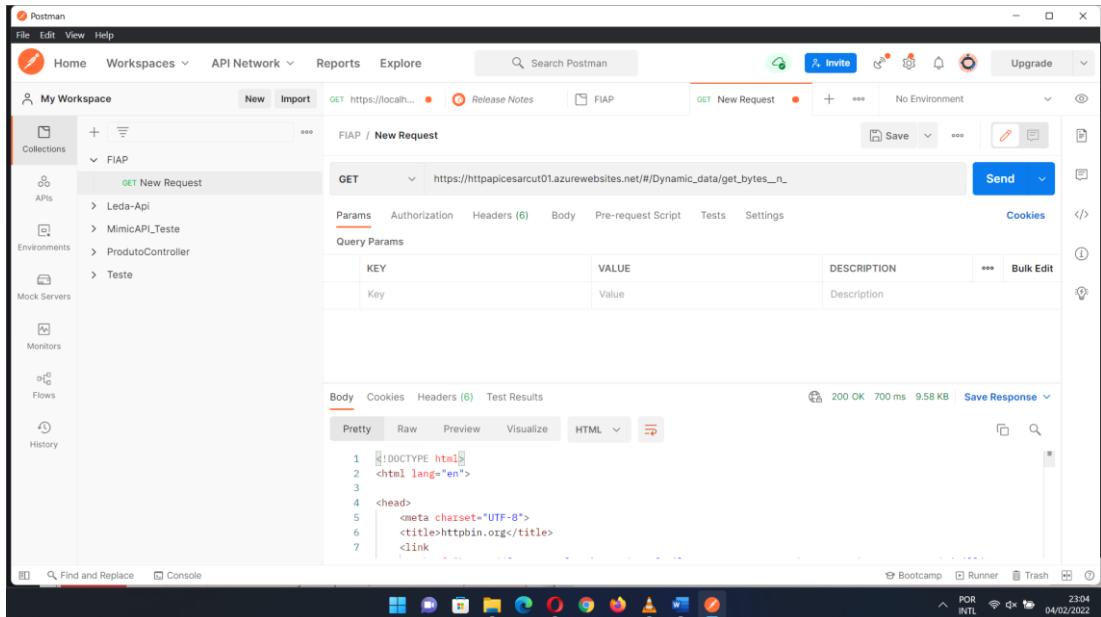
200 Response body

```
<!DOCTYPE html>
<html>
<head>
</head>
<body>
<h1>Herman Melville - Moby-Dick</h1>
<div>
<p>Availing himself of the mild, summer-cool weather that now reigned in these latitudes, and in preparation for the peculiarly active pursuits shortly to be anticipated, Perth, the begrimed, blistered old blacksmith, had not removed his portable forge to the hold again, after concluding his contributory work for Ahab's leg, but still retained it on deck, fast lashed to ringbolts by the foremast; being now almost incessantly invoked by the headsman, and harpooneers, and bowsman to do some little job for them; altering, or repairing, or new shaping their various weapons and boat hardware. Catching up the momentous news of the old man's fate, the blacksmith, by a pang of sudden remorse, no impatience, no qualmance did come from him. Silent, slow, and solemn; bowing down still further his chemically broken body, he tolled away, as if toil were life itself, and the heavy beating of his hammer the heavy beating of his heart. And so it was.—Most miserable! A peculiar walk in this old man, a certain slight but painful appearing yawning in his gait, had at an early period of the voyage excited the curiosity of the mariners. And to the importunity of their persisted questionings he had finally given in; and so it came to pass that every one now knew the shameful story of his wretched fate. Belated, and not innocently, one bitter winter's midnight, on the road running between two country towns, the blacksmith half-stupidly felt the deadly numbness stealing over him, and sought refuge in a leaning, dilapidated barn. The issue was, the loss of the extremities of both feet. Out of this revelation, part by part, at last came out the four acts of the gladness, and the one long, and as yet uncatastrophied fifth act of the grief of his life's drama. He was an old man, who, at the age of nearly sixty, had postponed encountering that thing in sorrow's technicals called ruin. He had been an artisan of famed excellence, and with plenty to do; owned a house and garden; embraced a youthful, daughter-like, loving wife, and Download blithe, ruddy children; every Sunday went to a cheerful-looking church, planted in a grove. But one night, under cover of darkness, and furthe
```

Response headers

```
access-control-allow-credentials: true
access-control-allow-origin: *
content-length: 3741
```

POR INTL 22:50 04/02/2022



Microsoft Azure - portal.azure.com/#@fiap.com.br/resource/subscriptions/e9f95a8f-8b61-4f30-91a4-5841936234db/resourceGroups/ApiService/overview

Home > Microsoft.ApiManagement-202204231203 > proapicesarcut01 > ApiService

Resource group

Overview

Resources Recommendations

Showing 1 to 3 of 3 records.

Name	Type	Location
ASP.ApiService-a999	App Service plan	East US 2
httpapicesarcut01	App Service	East US 2
proapicesarcut01	API Management service	East US 2

Page 1 of 1

23:20 04/02/2022

Microsoft Azure - portal.azure.com/#@fiap.com.br/resource/subscriptions/e9f95a8f-8b61-4f30-91a4-5841936234db/resourceGroups/ApiService/provider

Home > Microsoft.ApiManagement-202204231203 > proapicesarcut01 > ApiService > proapicesarcut01

API Management service

REVISION 1 [CREATED Feb 4, 2022, 11:28:45 PM]

Revision 1 - Created Feb 4, 2022, 11:28:45 PM

Frontend

Inbox

Policies

Outbox

Policies

Operations Definitions

No operations to display.

23:28 04/02/2022

Microsoft Azure - portal.azure.com/#@fiap.com.br/resource/subscriptions/e9f95a8f-8b61-4f30-91a4-5841936234db/resourceGroups/ApiService/provider

Home > Microsoft.ApiManagement-202204231203 > proapicesarcut01 > ApiService > proapicesarcut01

API Management service

REVISION 1 [CREATED Feb 4, 2022, 11:28:45 PM]

Design Settings Test Revisions Change log

Frontend

Inbox

Policies

Outbox

Policies

Operations Definitions

Frontend

GET /

GET /Echo Headers

23:32 04/02/2022

The screenshot shows the Microsoft Azure API Management service interface. On the left, the navigation menu includes 'Create a resource', 'Home', 'Dashboard', 'All services', 'FAVORITES' (with 'All resources' selected), 'Resource groups', 'App Services', 'Function App', 'SQL databases', 'Azure Cosmos DB', 'Virtual machines', 'Load balancers', 'Storage accounts', 'Virtual networks', 'Azure Active Directory', and 'Monitor'. Under 'APIs', 'APIs' is selected. The main pane displays 'proapicesarcut01 | APIs' with 'Revision 1' (CREATED Feb 4, 2022, 11:28:45 PM). The 'Design' tab is active, showing 'on tend' as the operation name. The 'Inbound processing' section contains the policy 'HTTP(s)'. The 'Outbound processing' section contains the policy 'base'. The 'Policies' section lists 'Backend' and 'https://r'. Below the operations list, 'All operations' is shown, with 'GET Echo Headers' selected.

The screenshot shows the Microsoft Azure API Management service interface. The left navigation menu is identical to the first screenshot. The main pane displays 'proapicesarcut01 | APIs' with 'Revision 1' (CREATED Feb 4, 2022, 11:28:45 PM). The 'Test' tab is active, showing 'HTTPBin API > Echo Headers > Backend'. The 'Backend' section allows defining the target service. It shows 'Target' set to 'HTTP(s) endpoint' and 'Service URL' set to 'https://httpapicesarcut01.azurewebsites.net/'. There are options for 'Override' and 'Gateway credentials' (None, Basic, Client cert). At the bottom are 'Save' and 'Discard' buttons.

The screenshot shows the Microsoft Azure API Management service interface. The left navigation menu is identical to the previous screenshots. The main pane displays 'proapicesarcut01 | APIs' with 'Revision 1' (CREATED Feb 4, 2022, 11:28:45 PM). The 'Test' tab is active, showing 'HTTPBin API > Echo Headers > Console'. The 'HTTP response' section shows the message: 'HTTP/1.1 200 OK'. The response headers include: cache-control: private, content-encoding: gzip, content-type: application/json, date: Sat, 05 Feb 2022 02:41:48 GMT, ocp-apim-apid: httpbin-api, ocp-apim-operationid: echo-headers, ocp-apim-subscriptionid: master, ocp-apim-trace-location: https://apimstsmjealipiz2gmkbyah.blob.core.windows.net/apimstjntdvvf9wcmguifqes-inspector/YmrB3pDwbzkmRggP-UQ2-17sv=2018-03-288sr=c&sig=t5972P2ybsG684cJ0vCf23aKEithLA%2Bkz9BJE. The 'Trace' tab is also visible. At the bottom are 'Send' and 'Bypass CORS proxy' buttons.

The screenshot shows the Microsoft Azure API Management service interface. On the left, the navigation menu includes 'Dashboard', 'All services', 'APIs', and 'Subscriptions'. The main area displays the 'proapicesarcut01 | APIs' service. Under 'Operations', the 'Get Legacy Data' operation is selected. The 'Inbound processing' section contains a single policy named 'Policies'. The 'Outbound processing' section also contains a single policy named 'Policies'. Both sections have an 'HTTP(s)' endpoint.

This screenshot shows the 'HTTP response' details for the 'Get Legacy Data' operation. It displays the raw XML response sent by the server. The response is HTTP/1.1 200 OK, with a content-length of 522 bytes. The content type is application/xml. The date is Sat, 05 Feb 2022 02:48:40 GMT. The operation ID is ocp-apim-operationid: get-legacy-data, and the subscription ID is master. The trace location is https://apimstsmjealipiz2gmkybah.blob.core.windows.net-inspector/YmrMbjphewzknRgP... . The XML response body is as follows:

```
<!-- A simple set of slides -->
<slideshow>
  <title>Sample Slide Show</title>
  <date>Date of publication</date>
  <author>Yours Truly</author>
</slideshow>
<!-- TITLE SLIDE -->
<slide type="all">
  <title>Wake up to WonderWidgets!</title>
</slide>
<!-- REVIEW -->
<slide type="all">
  <title>Overview</title>
  <item>
    <why>
      <em>WonderWidgets</em>
      are great
    </why>
    <item/>
    <item>
      <em>buys</em>
      WonderWidgets
    </item>
  </item>
</slide>
```

This screenshot shows the browser displaying the XML response from the 'Get Legacy Data' operation. The request URL is https://httpapicesarcut01.azurewebsites.net//Response\_formats/get\_xml. The response code is 200 OK. The response body is identical to the one shown in the previous screenshot.

A proapicesarcut01 - Microsoft Edge http://httpbin.org AZ-204: Developing solutions +

Curl

```
curl -X GET "https://httpapicesarcut01.azurewebsites.net/headers" -H "accept: application/json"
```

Request URL

<https://httpapicesarcut01.azurewebsites.net/headers>

Server response

Code	Details
200	Response body

```
{
  "headers": {
    "Accept": "application/json",
    "Accept-Encoding": "gzip, deflate, br",
    "Accept-Language": "pt-BR;qtq=0.9,en-US;q=0.8,en;q=0.7",
    "Client-IP": "179.0.66.1:6774",
    "Connection": "Keep-Alive",
    "Dispersed-Host": "httpapicesarcut01.azurewebsites.net",
    "Dnt": "1",
    "Host": "httpapicesarcut01.azurewebsites.net",
    "Max-Forwards": "10",
    "Referer": "https://httpapicesarcut01.azurewebsites.net/",
    "Sec-Ch-Ua": "\"Opera\";v=\"83\", \"Chromium\";v=\"97\", \"Not A Brand\";v=\"99\"",
    "Sec-Ch-Ua-Mobile": "?0",
    "Sec-Ch-Ua-Platform": "\"Windows\"",
    "Sec-Fetch-Dest": "empty",
    "Sec-Fetch-Mode": "cors",
    "Sec-Fetch-Site": "same-origin",
    "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/97.0.4692.71 Safari/537.36"
  }
}
```

POR INTL 23:50 04/02/2022

A proapicesarcut01 - Microsoft Edge http://httpbin.org AZ-204: Developing solutions +

Microsoft Azure Search resources, services, and docs (G+)

proapicesarcut01 | APIs API Management service

REVISION 1 CREATED Feb 4, 2022, 11:28:45 PM

Design Settings Test Revisions Change log

Frontend [Edit](#)

GET /html

Inbound processing

Modify the request before it is sent to the backend service.

Policies [Edit](#)

Outbound processing

Modify the response before it is sent to the client.

Policies [Edit](#)

Add operation

All operations

Operations Definitions

Echo Headers ...

Get Html Data ...

Get Legacy Data ...

POR INTL 23:54 04/02/2022

A proapicesarcut01 - Microsoft Edge http://httpbin.org AZ-204: Developing solutions +

Microsoft Azure Search resources, services, and docs (G+)

proapicesarcut01 | APIs API Management service

REVISION 1 CREATED Feb 4, 2022, 11:28:45 PM

Design Settings Test Revisions Change log

HTTPBin API > Get Html Data > Console

HTTP response

Message Trace

HTTP/1.1 200 OK

cache-control: private  
content-encoding: gzip  
content-type: text/html; charset=utf-8  
date: Sat, 05 Feb 2022 02:55:00 GMT  
ocp-apim-apid: httpbin-api  
ocp-apim-operationid: get-html-data  
ocp-apim-subscriptionid: master  
ocp-apim-trace-location: https://apimtsjeaiipiz2mkbybah.blob.core.windows.net/inspector?ver=8&path=kwrgg\_p\_UQ2-47vv=2018-03-28&sr=c&sig=t5972PZybsG68rLA1gs%3D&se=2023-02-05T02%3A17%3A16Z&sp=r&acwcl&traceid=791d29fcf68246ec89e9

Send Bypass CORS proxy

POR INTL 23:55 04/02/2022

The screenshot shows the Microsoft Azure portal interface. On the left, the sidebar includes 'Create a resource', 'Home', 'Dashboard', 'All services', 'FAVORITES' (with 'All resources', 'Resource groups', 'App Services', 'Function App', 'SQL databases', 'Azure Cosmos DB', 'Virtual machines', 'Load balancers', 'Storage accounts', 'Virtual networks', 'Azure Active Directory', and 'Monitor'), and 'APIs'. The main area displays the 'proapicesarcut01 | APIs' blade for the 'API Management service'. The 'REVISION 1' tab is selected, showing the 'Design' tab. Under 'Operations', there are three operations listed: 'Echo Headers', 'Get Html Data', and 'Get Legacy Data'. To the right, the 'Policies' section shows the XML code for the 'HTTPBin API > All operations > Policies' revision:

```
<?xml version="1.0" encoding="utf-8"?>
<inbound>
</inbound>
<backend>
</backend>
<outbound>
</outbound>
<on-error>
</on-error>
</policies>
```

This screenshot shows the 'Test' tab for the 'Generate Payload' operation in the 'HTTPBin API > All operations > Operations' section. The 'Message' tab is selected, displaying the response body:

```
HTTP/1.1 200 OK
cache-control: private
content-encoding: gzip
content-type: application/json
date: Sat, 09 Feb 2022 03:12:21 GMT
ocp-apim-apid: httpbin-api
ocp-apim-operationid: generate-payload
ocp-apim-subscriptionid: master
ocp-apim-trace-location: https://apiinstmjeaiipiz2gmkvah.blob.core.windows.net/inspector/YewMBjpjDwzXkmRgp...-IQ2-12?sv=2018-03-28&sr=c&sig=t5972P2yhsG6lELA2gsX30Bse+2023-02-05T023A17%3A16Z&sp=r&acud1&traceId=7a40ffFa838246f4b66f
```

This screenshot shows the 'Inbound processing' blade for the 'Modify Status' operation in the 'Frontend' section. The 'Policies' section is visible on the right. A message at the top states: 'Operation "Modify Status Code" of "HTTPBin API" saved successfully.'

The screenshot shows the Microsoft Azure portal interface. On the left, the sidebar includes 'Create a resource', 'Home', 'Dashboard', 'All services', 'FAVORITES' (with 'All resources' selected), 'Resource groups', 'App Services', 'Function App', 'SQL databases', 'Azure Cosmos DB', 'Virtual machines', 'Load balancers', 'Storage accounts', 'Virtual networks', 'Azure Active Directory', and 'Monitor'. The main area displays the 'proapicesarcut01 | APIs' page under the 'API Management service'. The 'APIs' section is selected. A 'REVISION 1' card shows the creation date as 'CREATED Feb 4, 2022, 11:28:45 PM'. Below it, the 'HTTP response' section lists several operations: 'Echo Headers', 'Generate Payload', 'Get Html Data', 'Get Legacy Data', and 'Modify Status Co...'. The 'Modify Status Co...' operation is highlighted. The 'Message' tab shows a detailed log entry:

```
HTTP/1.1 200 OK
cache-control: private
content-encoding: gzip
content-type: application/json
date: Sat, 05 Feb 2022 03:09:45 GMT
ocp-apim-apid: httpbin-api
ocp-apim-operationid: modify-status-code
ocp-apim-subscriptionid: master
ocp-apim-trace-location: https://api.mtsmjealipiz2gmkyah.blob.core.windows.net/ajes-inspector/YmrHbjpObwzkmRggP_-UQ2-7sv=2018-03-28&sr=c&sig=tS972p2ybsGG84cJ0ClLAJgs%3D&se=2023-02-05T02K3A17%3A16Z&sp=r&cid=0835a5e343834d7f9d38280ef6;
```

This screenshot shows the same Microsoft Azure API Management service interface as the previous one, but with a different view. The 'Operations' tab is selected in the 'APIs' section. The 'Frontend' panel shows the 'GET /bytes/[n]' operation. The 'Inbound processing' panel contains the policy code: 'Modify the request before it is sent to the backend service.' The 'Outbound processing' panel contains the policy code: 'Modify the response before it is sent to the client.' The bottom status bar indicates the time as 00:03 and the date as 05/02/2022.

<https://proapicesarcut01.azure-api.net/status/404>

<https://proapicesarcut01.azure-api.net/xml>

<https://proapicesarcut01.azure-api.net/html>

<https://proapicesarcut01.azure-api.net/>

<https://proapicesarcut01.azure-api.net/bytes/512>

03/02/2022

## AULA 5 - Como implementar do AKS

The screenshot shows the 'Create Kubernetes cluster' wizard in the Azure portal. The 'Validation passed' step has been completed. Configuration details are as follows:

- Subscription: Azure for Students
- Resource group: (new) az104-09c-rg1
- Region: East US 2
- Kubernetes cluster name: az104-9c-aks1cesar
- Kubernetes version: 1.21.7
- Node pools: 1 node pool, Enable virtual nodes: Disabled

The screenshot shows the 'az104-9c-aks1cesar' Kubernetes service page in the Azure portal. The 'Connect' blade is open, displaying commands to run in the Cloud Shell or CLI to connect to the cluster. The commands listed are:

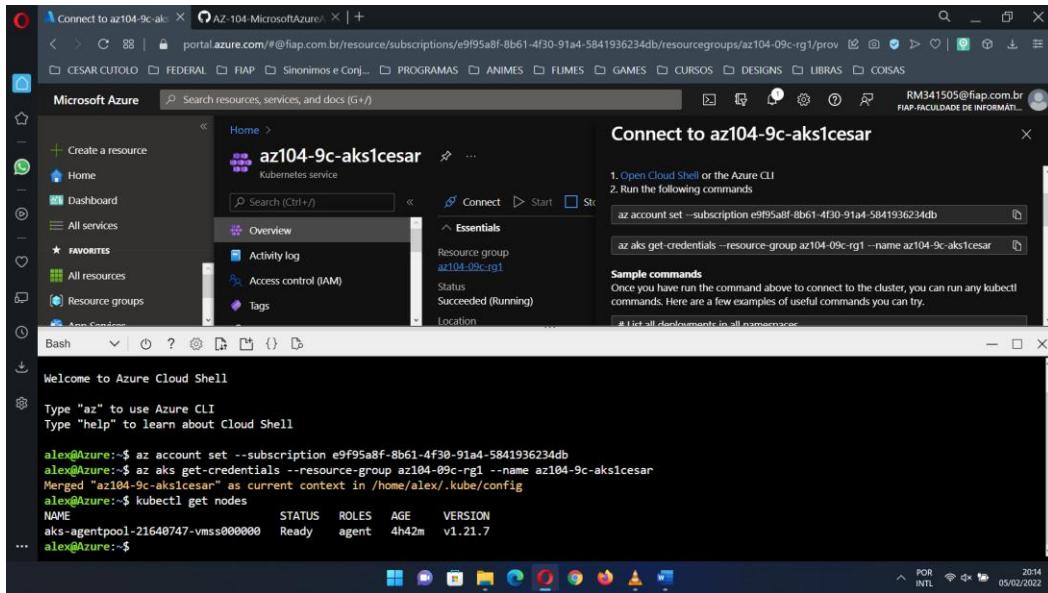
1. Open Cloud Shell or the Azure CLI
2. Run the following commands

```
az account set --subscription e9f95a8f-8b61-4f30-91a4-5841936234db
az aks get-credentials --resource-group az104-09c-rg1 --name az104-9c-aks1cesar
```

Below the commands, a terminal window shows the execution of these commands:

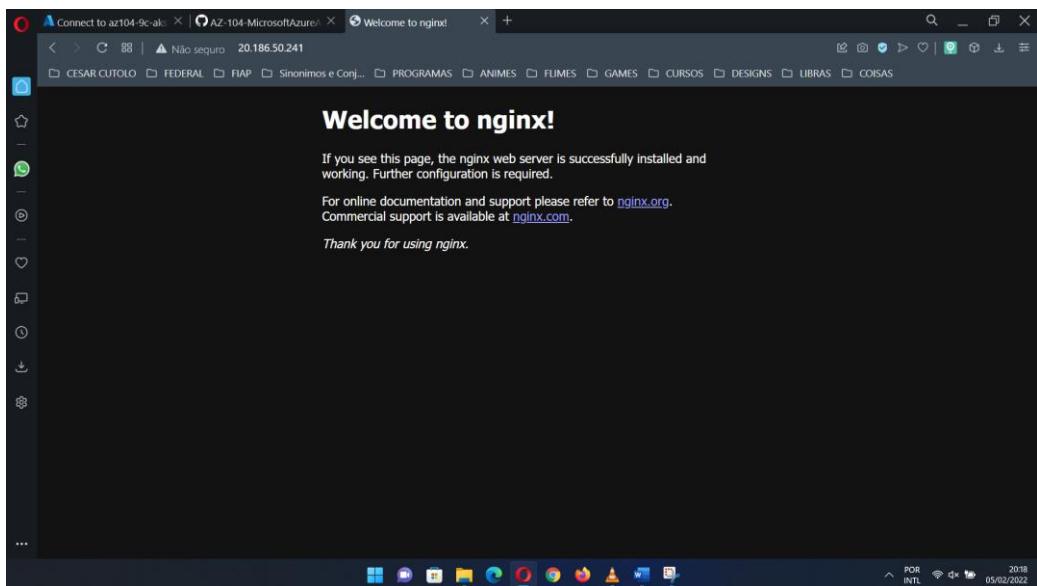
```
alex@Azure:~$ az account set --subscription e9f95a8f-8b61-4f30-91a4-5841936234db
alex@Azure:~$ az aks get-credentials --resource-group az104-09c-rg1 --name az104-9c-aks1cesar
Merged "az104-9c-aks1cesar" as current context in /home/alex/.kube/config
alex@Azure:~$
```

kubectl get nodes



```
az aks scale --resource-group az104-09c-rg1 --name az104-9c-aks1cesar --node-count 2
```

```
Bash
Merged "az104-9c-aks1cesar" as current context in /home/alex/.kube/config
alex@Azure:~$ kubectl get nodes
NAME           STATUS   ROLES   AGE   VERSION
aks-agentpool-21640747-vmss000000   Ready   agent   4h42m   v1.21.7
alex@Azure:~$ kubectl create deployment nginx-deployment --image=nginx
deployment.apps/nginx-deployment created
alex@Azure:~$ kubectl get pods
NAME           READY   STATUS    RESTARTS   AGE
nginx-deployment-84cd76b964-s5rnx   1/1     Running   0          37s
alex@Azure:~$ kubectl get deployment
NAME           READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment   1/1       1           1          43s
alex@Azure:~$
```



Microsoft Azure

az104-9c-aks1cesar

Kubernetes service

Overview

Resource group: az104-9c-rg1

Status: Succeeded (Running)

Location: Brazil South

Bash

```
alex@Azure:~$ az aks scale --resource-group az104-9c-rg1 --name az104-9c-aks1cesar --node-count 2
Cannot scale cluster autoscaler enabled node pool.
alex@Azure:~$
```

Microsoft Azure

agentpool | Overview

Node pool

Upgrade Kubernetes Update image Scale node pool Delete Refresh

Essentials

Provisioning state: Succeeded

Power state: Running (1/1 nodes ready)

Availability zones: None

Mode: Node size

Bash

```
alex@Azure:~$ az aks scale --resource-group az104-9c-rg1 --name az104-9c-aks1cesar --node-count 2
[Running ..]
```

Microsoft Azure

az104-9c-aks1cesar | Node pools

Kubernetes service

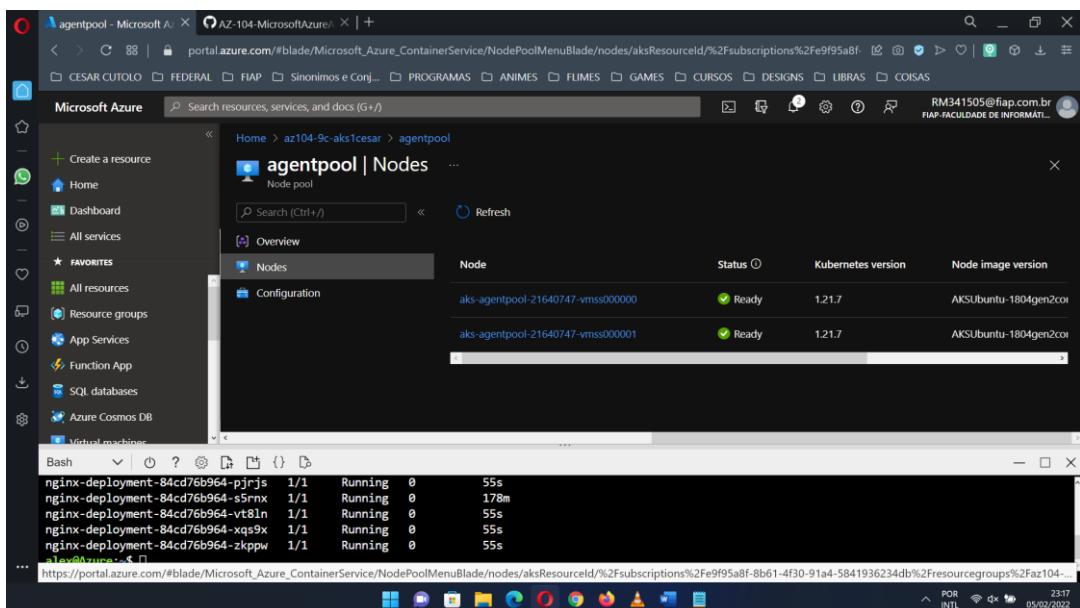
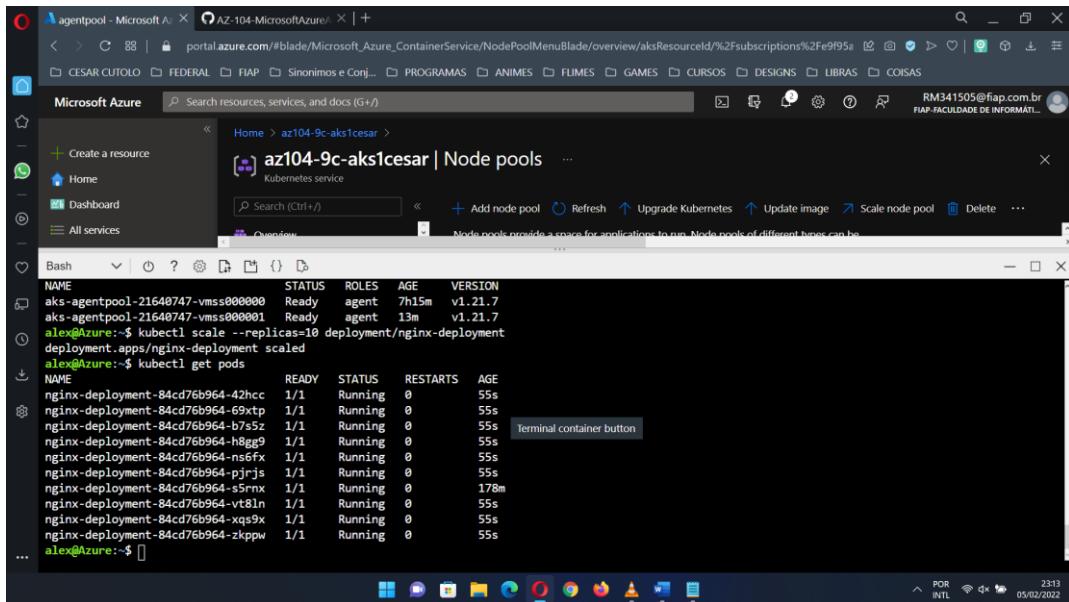
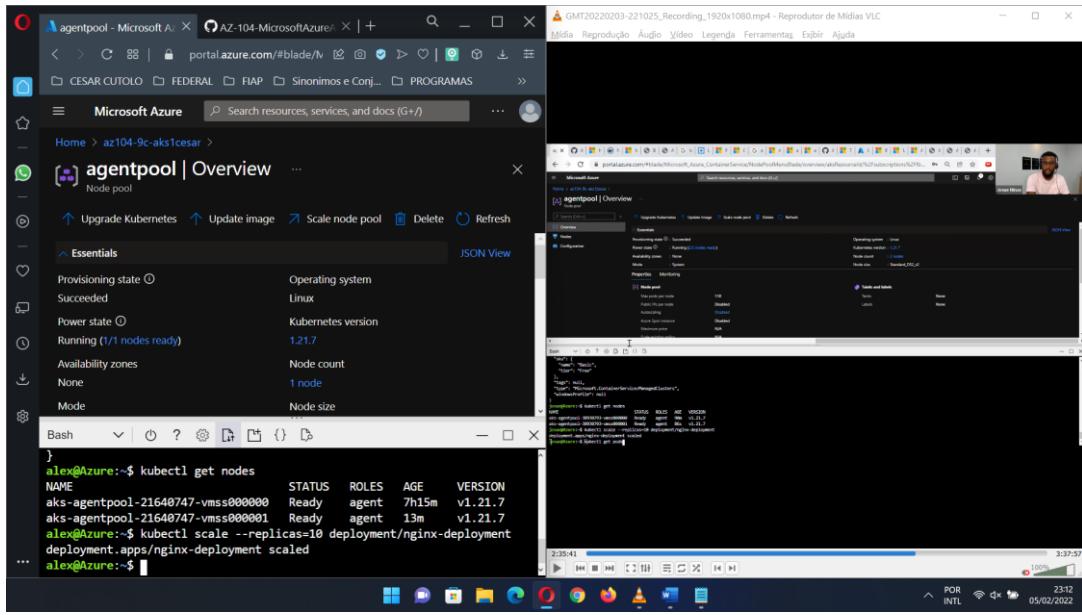
Add node pool Refresh Upgrade Kubernetes Update image Scale node pool Delete

Node pool Provisioning state Power state Node count Mode Kubernetes ver

Node pool	Provisioning state	Power state	Node count	Mode	Kubernetes ver
agentpool	Succeeded	Running	1/1 ready	System	1.21.7

Bash

```
"type": "Microsoft.ContainerService/ManagedClusters",
"windowsProfile": null
}
alex@Azure:~$ kubectl get nodes
NAME           STATUS  ROLES   AGE   VERSION
aks-agentpool-21640747-vmss000000  Ready   agent   7h15m  v1.21.7
aks-agentpool-21640747-vmss000001  Ready   agent   13m    v1.21.7
alex@Azure:~$
```



A screenshot of a Microsoft Edge browser window. The address bar shows several tabs: "agentpool - Microsoft Azure", "AZ-104 - Microsoft Azure", "Quickstart: Deploy an AKS cluster", and "Welcome to nginx!". The main content area of the browser displays the Microsoft Azure portal. A terminal window is open in the bottom right corner, showing the command line interface for deploying an application to an AKS cluster.

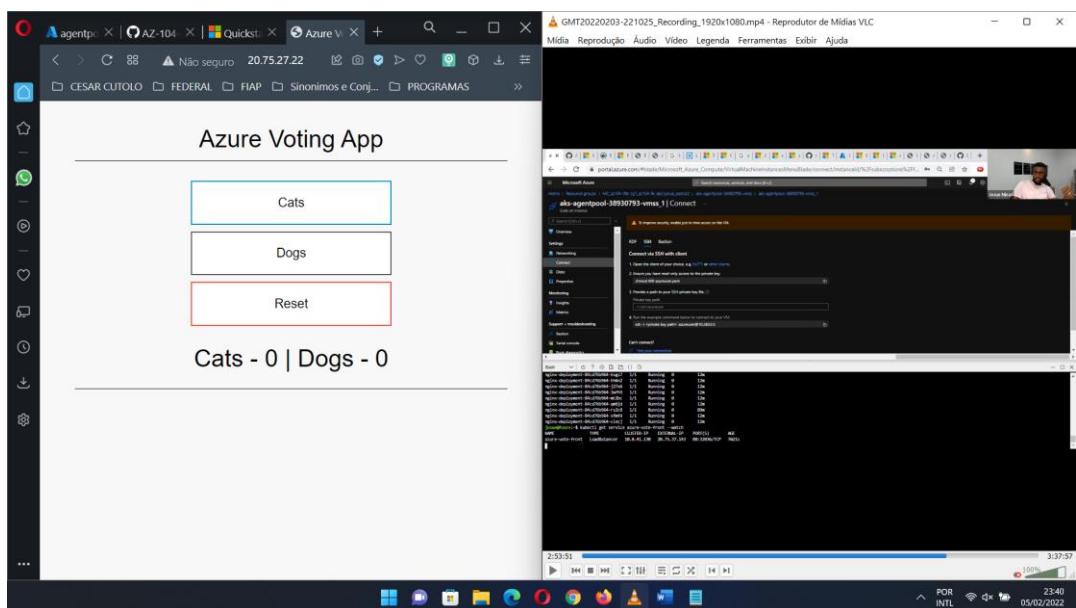
```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: azure-vote-back
spec:
  replicas: 1
  selector:
    matchLabels:
      app: azure-vote-back
  template:
    metadata:
      labels:
        app: azure-vote-back
    spec:
      nodeSelector:
        "kubernetes.io/os": linux
```

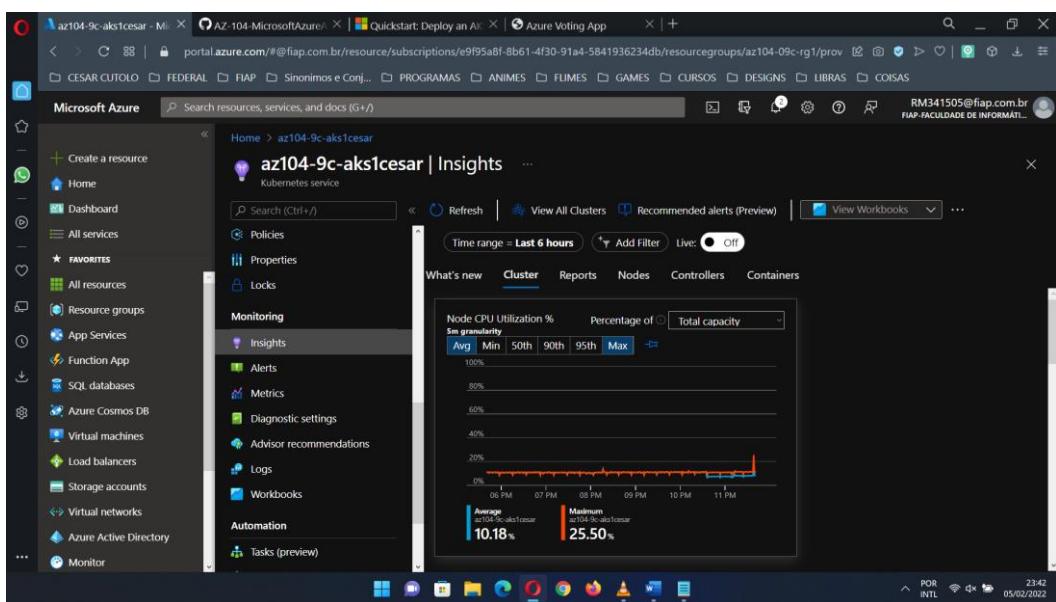
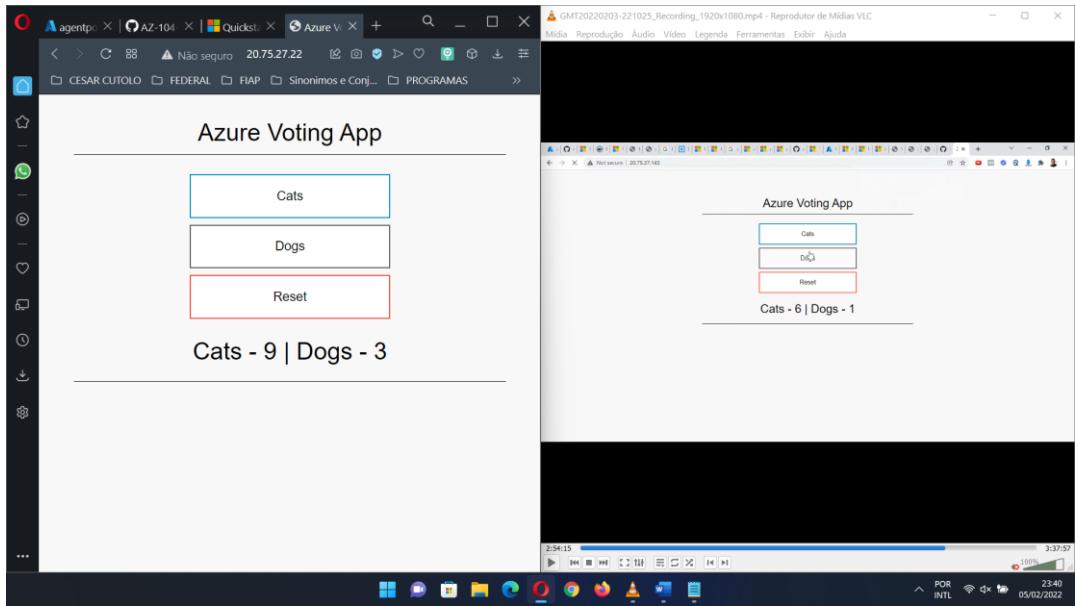
The terminal also shows the deployment of an Nginx deployment and the creation of services:

```
nginx-deployment LoadBalancer 10.0.210.6 20.186.50.241 80:32463/T
CP 3h16m
alex@Azure:~$ code azure-vote.yaml
alex@Azure:~$
```

A screenshot of a Microsoft Edge browser window. The address bar shows several tabs: "agentpool - Microsoft Azure", "AZ-104 - Microsoft Azure", "Quickstart: Deploy an AKS cluster", and "Welcome to nginx!". The main content area of the browser displays the Microsoft Azure portal. A terminal window is open in the bottom right corner, showing the command line interface for deploying an application to an AKS cluster. A VLC media player window is overlaid on the browser, showing a recording of a video call.

```
aks-agentpool-21640747-vmss00000000 nginx-deployment-84cd76b964-h8ggx
aks-agentpool-21640747-vmss00000001 nginx-deployment-84cd76b964-ns6fx
aks-agentpool-21640747-vmss00000001 nginx-deployment-84cd76b964-pjrjs
aks-agentpool-21640747-vmss00000000 nginx-deployment-84cd76b964-s5rnx
aks-agentpool-21640747-vmss00000001 nginx-deployment-84cd76b964-vt8ln
aks-agentpool-21640747-vmss00000001 nginx-deployment-84cd76b964-xqg9x
aks-agentpool-21640747-vmss00000001 nginx-deployment-84cd76b964-zkppw
alex@Azure:~$ kubectl get service
NAME         TYPE      CLUSTER-IP   EXTERNAL-IP   PORT(S)
AGE          kubernetes   ClusterIP   <none>       443/TCP
8h
nginx-deployment LoadBalancer 10.0.210.6 2 Terminal container button 8463/T
CP 3h16m
alex@Azure:~$ code azure-vote.yaml
alex@Azure:~$ kubectl apply -f azure-vote.yaml
deployment.apps/azure-vote-back created
service/azure-vote-back created
deployment.apps/azure-vote-front created
service/azure-vote-front created
alex@Azure:~$
```





[https://github.com/MicrosoftLearning/AZ-104-MicrosoftAzureAdministrator/blob/master/Instructions/Labs/LA\\_B\\_09b-Implement\\_Azure\\_Container\\_Instances.md](https://github.com/MicrosoftLearning/AZ-104-MicrosoftAzureAdministrator/blob/master/Instructions/Labs/LA_B_09b-Implement_Azure_Container_Instances.md)

**testcesarflap** Container instances

**Essentials**

Resource group (move) **az104-09c-rg1**

Status **Running**

Location **East US 2**

Subscription (move) **Azure for Students**

Subscription ID **e9f95a8f-8b61-4f30-91a4-5841936234db**

Tags (edit) **Click here to add tags**

CPU

100	90

## Welcome to Azure Container Instances!

Azure Container Instances

Container instances

Container groups

Compute instances

**testcesarflap** | Containers

Name	Image	State	Previous state	Start time	Restart count
testcesarflap	mcr.microsoft.com/a...	Running	-	2022-02-06T02:49:1...	0

Events

Name	Type	First timestamp	Last timestamp	Message	Count
Started	Normal	2/5/2022, 11:49 PM ...	2/5/2022, 11:49 PM ...	Started container	1
Pulled	Normal	2/5/2022, 11:49 PM ...	2/5/2022, 11:49 PM ...	Successfully pulled i...	1

The screenshot shows the Microsoft Azure Container Instances dashboard. On the left, the navigation menu includes 'Containers' under 'Settings'. The main pane displays a table with one container entry:

Name	Image	State	Previous state	Start time	Restart count
testcesarfiap	mcr.microsoft.com/...	Running	-	2022-02-06T02:49:1...	0

Below the table, there are tabs for 'Events', 'Properties', 'Logs', and 'Connect'. The 'Logs' tab is selected, showing log entries:

```
listening on port 80
:ffff:10.92.0.11 - - [06/Feb/2022:02:51:07 +0000] "GET / HTTP/1.1" 200 1663 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/97.0.4692.99 Safari/537.36 OPR/83.0.4254.27"
:ffff:10.92.0.11 - - [06/Feb/2022:02:51:08 +0000] "GET /favicon.ico HTTP/1.1" 404 150 "http://20.75.23.57/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/97.0.4692.99 Safari/537.36 OPR/83.0.4254.27"
```

The screenshot shows the 'az104-09c-rg1 | Export template' page. The left sidebar has 'Export template' selected under 'Automation'. The main area shows a JSON template with parameters and resources:

```
1 {
  "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
    "containerGroups_testcesarfiap_name": {
      "defaultValue": "testcesarfiap",
      "type": "String"
    }
  },
  "resources": [
    {
      "apiVersion": "2021-06-01",
      "name": "managedClusters_az104_9c",
      "type": "Microsoft.ContainerService/managedClusters"
    }
  ]
}
```

The screenshot shows the 'Resource visualizer' page for the 'az104-09c-rg1' resource group. The left sidebar has 'Resource groups' selected. The main area displays a diagram with two components:

- A dark blue rounded rectangle labeled '(containerGroups\_testcesarfiap... Container instances)
- A light blue rounded rectangle labeled '(managedClusters\_az104\_9c... Kubernetes service)

At the bottom right of the diagram area are three icons: a magnifying glass, a search icon, and a refresh/circular arrow icon.

08/02/2022

## AULA 6 - Publicar Azure Functions

[https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204\\_lab\\_02.html](https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204_lab_02.html)

<https://github.com/MicrosoftLearning/AZ-204-DevelopingSolutionsforMicrosoftAzure>

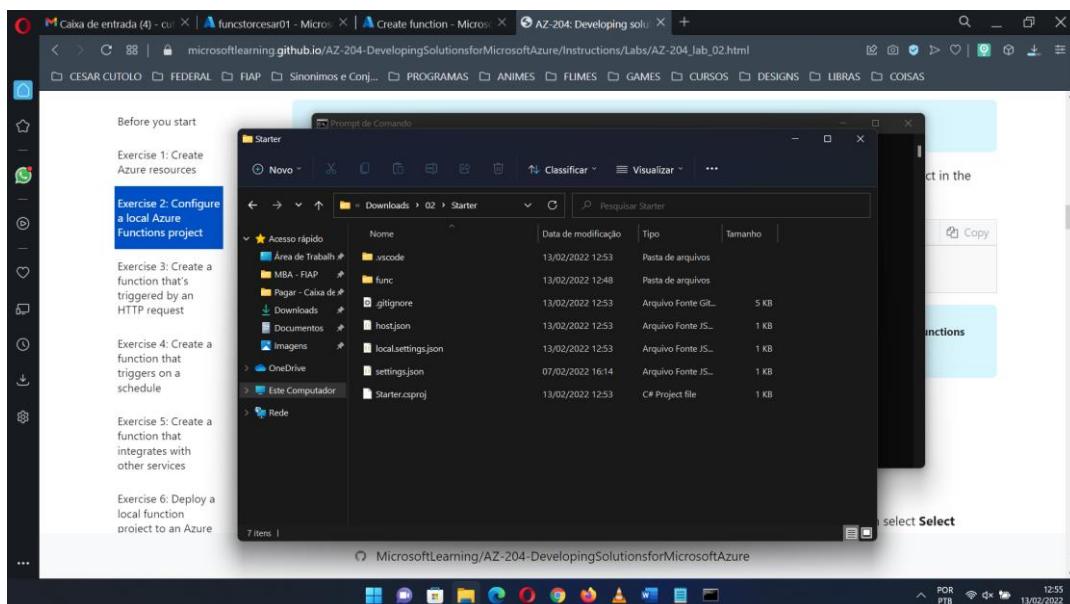
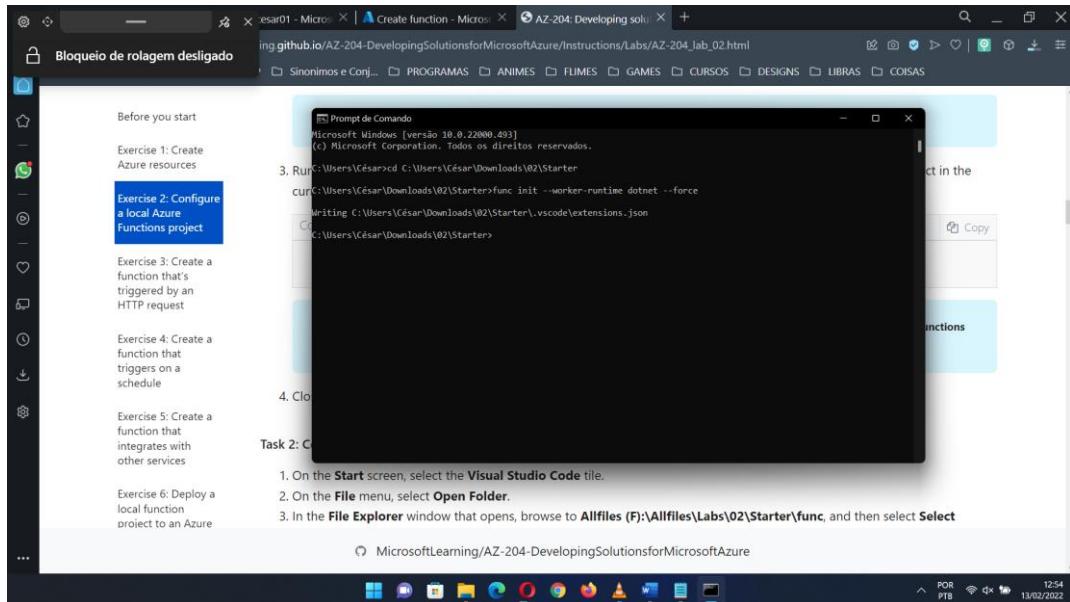
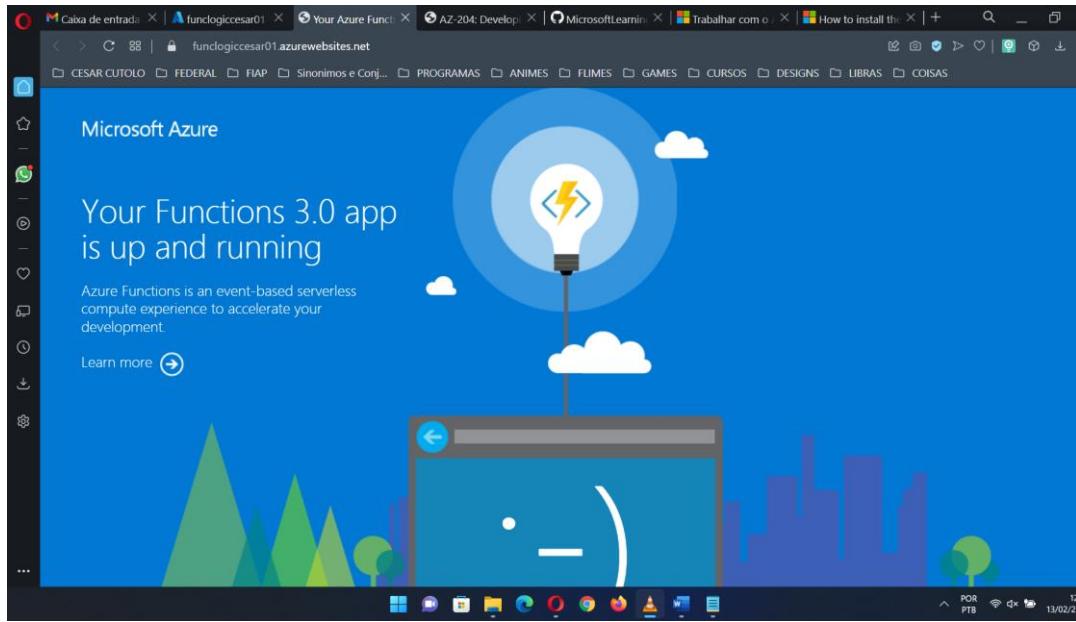
<https://novostoravidal.blob.core.windows.net/lab/02.zip>

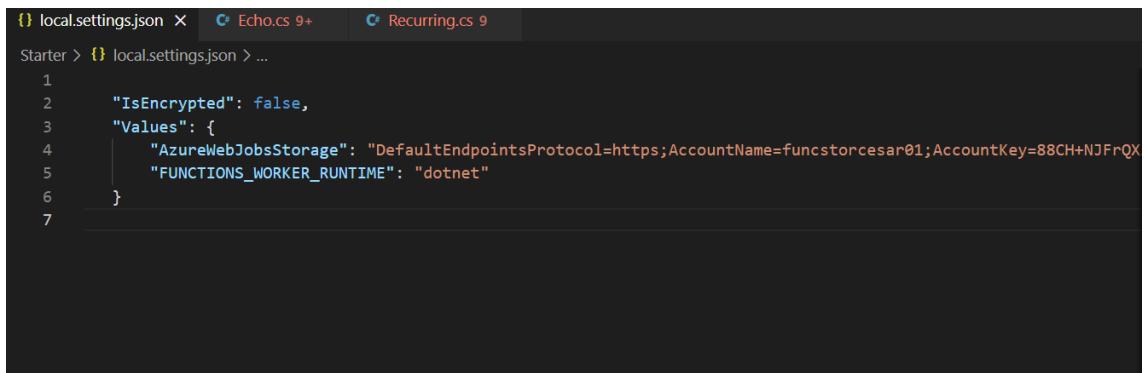
<https://docs.microsoft.com/pt-br/azure/azure-functions/functions-run-local?tabs=v4%2Cwindows%2Ccsharp%2Cportal%2Cbash>

<https://docs.microsoft.com/en-us/cli/azure/install-azure-cli>

This screenshot shows the Microsoft Azure Storage account overview for the resource group 'funcstorcesar01'. The account is named 'funcstorcesar01' and is located in the 'East US' region. It is associated with the 'Azure for Students' subscription and has a 'Standard/Hot' performance tier. The account is currently 'Available' and was created on 13/02/2022 at 11:01:06. The 'Blob service' section shows settings like 'Hierarchical namespace' (disabled), 'Default access tier' (Hot), and 'Blob public access' (enabled). The 'Security' section includes options for secure transfer and storage account key access.

This screenshot shows the Microsoft Azure Function App overview for the function app 'funclogiccesar01'. The app is running in the 'Serverless' mode and is located in the 'East US' region. It is associated with the 'Azure for Students' subscription and has an 'ASP-Serverless-901a (Y1:0)' app service plan. The URL for the app is https://funclogiccesar01.azurewebsites.net. The 'Metrics' tab is selected, showing real-time data for 'Memory working set' and 'Function Execution Count'.





```
1 "IsEncrypted": false,
2 "Values": {
3     "AzureWebJobsStorage": "DefaultEndpointsProtocol=https;AccountName=funcstorcesar01;AccountKey=88CH+NJFr0X
4     "FUNCTIONS_WORKER_RUNTIME": "dotnet"
5 }
6
7
```

```
C:\Users\César\Downloads\02\Starter\func>dotnet build
Microsoft(R) Build Engine versão 17.0.0+c9eb9dd64 para .NET
Copyright (C) Microsoft Corporation. Todos os direitos reservados.

Determinando os projetos a serem restaurados...
C:\Users\César\Downloads\02\Starter\func\Starter.csproj restaurado (em 8,36 sec).
Starter -> C:\Users\César\Downloads\02\Starter\func\bin\Debug\net6.0\Starter.dll

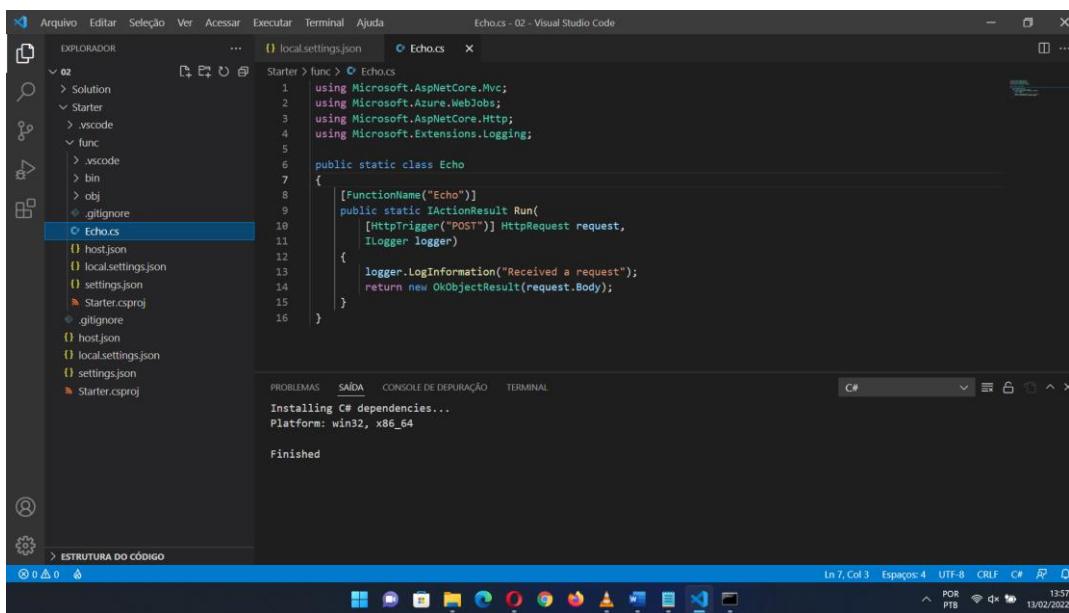
Compilação com êxito.
  0 Aviso(s)
  0 Erro(s)

Tempo Decorrido 00:00:16.74

C:\Users\César\Downloads\02\Starter\func>
```

```
C:\Users\César\Downloads\02\Starter\func>func new --template "HTTP trigger" --name "Echo"
Use the up/down arrow keys to select a template: Function name: Echo
The function "Echo" was created successfully from the "HTTP trigger" template.

C:\Users\César\Downloads\02\Starter\func>
```



Postman interface showing a POST request to `http://localhost:7071/api/Echo?name=cesar`. The request body contains the parameter `name` with value `cesar`. The response status is 200 OK.

VS Code interface showing the code editor with `Echo.cs` file content:

```

1 using Microsoft.AspNetCore.Mvc;
2 using Microsoft.Azure.WebJobs;
3 using Microsoft.AspNetCore.Http;
4 using Microsoft.Extensions.Logging;
5
6 public class Echo
7 {
8     public void Run([TimerTrigger("0 */1 * * *")]TimerInfo myTimer, ILogger log)
9     {
10        log.LogInformation($"Determinando os projetos a serem restaurados...");
11        foreach (var project in myTimer.Context.GetRestoredProjects())
12        {
13            log.LogInformation($"Restaurando projeto: {project.Name}");
14        }
15    }
16 }

```

The terminal shows the command `func start -build` was run successfully.

Postman interface showing a POST request to `http://localhost:7071/api/Echo?name=cesar&name=nathy&name=prof jorge`. The request body contains three parameters: `name` with values `cesar`, `nathy`, and `prof jorge`. The response status is 200 OK.

```
[2022-02-13T17:09:40.546Z] Received a request
[2022-02-13T17:09:40.549Z] Executed 'Echo' (Succeeded, Id=7d2f1148-d894-405a-81d6-ea8212d16136, Duration=7ms)

C:\Users\César\Downloads\02\Starter\func>func new --template "Timer trigger" --name "Recurring"
Use the up/down arrow keys to select a template:Function name: Recurring

The function "Recurring" was created successfully from the "Timer trigger" template.

C:\Users\César\Downloads\02\Starter\func>
```

```
Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda Recurring.cs - 02 - Visual Studio Code

EXPLORADOR
02
  > Solution
    > Starter
      > .vscode
        > bin
      > func
        > vscode
        > bin
        > obj
        > .gitignore
        Echo.cs
        local.settings.json
        Recurring.cs
        settings.json
        Starter.csproj
      > obj
      > .gitignore
      host.json
      local.settings.json
      settings.json
      Starter.csproj

ESTRUTURA DO CÓDIGO
61 0 02
  PROBLEMAS 61  SAÍDA  CONSOLE DE DEPURAÇÃO  TERMINAL
  Installing C# dependencies...
  Platform: win32, x86_64
  Finished

  61 0 02
  11:18 13/02/2022 14:18:00
```

```
[2022-02-13T17:17:02.353Z] Found C:\Users\César\Downloads\02\Starter\func\Starter.csproj. Using for user secrets file configuration.

Functions:

  Echo: [POST] http://localhost:7071/api/Echo

  Recurring: timerTrigger

For detailed output, run func with --verbose flag.
[2022-02-13T17:17:09.655Z] Host lock lease acquired by instance ID '00000000000000000000000003F780B80'.
[2022-02-13T17:17:30.089Z] Executing 'Recurring' (Reason='Timer fired at 2022-02-13T14:17:30.0314634-03:00', Id=b6dc685d-0210-4728-9f32-9ac9bb809f1d)
[2022-02-13T17:17:30.110Z] C# Timer trigger function executed at: 13/02/2022 14:17:30
[2022-02-13T17:17:30.147Z] Executed 'Recurring' (Succeeded, Id=b6dc685d-0210-4728-9f32-9ac9bb809f1d, Duration=95ms)
[2022-02-13T17:18:00.026Z] Executing 'Recurring' (Reason='Timer fired at 2022-02-13T14:18:00.0251904-03:00', Id=9eca24e3-3026-4097-a7b5-9e387df827cb)
[2022-02-13T17:18:00.031Z] C# Timer trigger function executed at: 13/02/2022 14:18:00
[2022-02-13T17:18:00.034Z] Executed 'Recurring' (Succeeded, Id=9eca24e3-3026-4097-a7b5-9e387df827cb, Duration=8ms)
[2022-02-13T17:18:30.007Z] Executing 'Recurring' (Reason='Timer fired at 2022-02-13T14:18:30.0076988-03:00', Id=d93667b7-6f4a-487e-8394-91a63d71cdea)
[2022-02-13T17:18:30.012Z] C# Timer trigger function executed at: 13/02/2022 14:18:30
[2022-02-13T17:18:30.015Z] Executed 'Recurring' (Succeeded, Id=d93667b7-6f4a-487e-8394-91a63d71cdea, Duration=7ms)
```

Name	Modified	Access tier	Archive status	Blob type	S
No results					

```

    1  using Microsoft.AspNetCore.Http;
    2  using Microsoft.AspNetCore.Mvc;
    3  using Microsoft.Azure.WebJobs;
    4
    5  public static class GetSettingInfo
    6  {
    7      [FunctionName("GetSettingInfo")]
    8      public static IActionResult Run(
    9          [HttpTrigger("GET")] HttpRequest request,
   10         [Blob("content/settings.json")] string json)
   11     => new OkObjectResult(json);
   12 }

```

`func extensions install --package  
Microsoft.Azure.WebJobs.Extensions.Storage --version 4.0.4`

```

zyDML2ZWDkG2jzTYzIU/BNlmzMdlmRvbnnwITsGGY74gwWEpDli1Ud0LkMT7/3jxWvXxA==.
info : Microsoft.Azure.DocumentDB.Core 2.10.0 instalado de https://api.nuget.org/v3/index.json com o hash de conteúdo b6wfplhoaATVxhZ4wulAQu9VdAzY7bb00Pu8du0wdUDAp/lGLhrD0o8cG21E0TRREH0nv0vMTqSp9ctognog==.
info : NETStandard.Library 2.0.1 instalado de https://api.nuget.org/v3/index.json com o hash de conteúdo 0A6nvv9MhEKYvLpJz0ggSpbIg4CQViDVQjlUcDWg598jtjv1bpfeP2reqwI1GLW2TbxCM17xLG8BR1hMKPXTg==.
info : O pacote 'Microsoft.Azure.WebJobs.Extensions.Storage' é compatível com todas as estruturas especificadas no projeto 'C:\Users\César\Downloads\02\Starter\func\Starter.csproj'.
info : PackageReference do pacote 'Microsoft.Azure.WebJobs.Extensions.Storage' versão '4.0.4' adicionada ao arquivo 'C:\Users\César\Downloads\02\Starter\func\Starter.csproj'.
info : Confirmando restauração...
info : Gravando o arquivo de ativos no disco. Caminho: C:\Users\César\Downloads\02\Starter\func\obj\project.assets.json
log  : C:\Users\César\Downloads\02\Starter\func\Starter.csproj restaurado (em 7,09 sec).

Microsoft(R) Build Engine versão 17.0.0+c9eb9dd64 para .NET
Copyright (C) Microsoft Corporation. Todos os direitos reservados.

Determinando os projetos a serem restaurados...
Todos os projetos estão atualizados para restauração.
Starter -> C:\Users\César\Downloads\02\Starter\func\bin\Starter.dll

Compilação com êxito.
  0 Aviso(s)
  0 Erro(s)

Tempo Decorrido 00:00:07.93

```

```

Azure Functions Core Tools
Core Tools Version:      4.0.3971 Commit hash: d0775d487c93ebd49e9c1166d5c3c01f3c76eaaf (64-bit)
Function Runtime Version: 4.0.1.16815

[2022-02-13T18:40:45.864Z] Found C:\Users\César\Downloads\02\Starter\func\Starter.csproj. Using for user secrets file configuration.

Functions:

    Echo: [POST] http://localhost:7071/api/Echo

    GetSettingInfo: [GET] http://localhost:7071/api/GetSettingInfo

    Recurring: timerTrigger

For detailed output, run func with --verbose flag.
[2022-02-13T18:40:53.425Z] Host lock lease acquired by instance ID '00000000000000000000000000000003F780B80'.

```

The screenshot shows the Postman interface with a successful API call. The request URL is `http://localhost:7071/api/GetSettingInfo`. The response body is:

```

1
2   "version": "0.2.4",
3   "root": "/usr/libexec/mews_principal/",
4   "device": {
5     "id": "21e46d2b2b926cba031a23c6919"
6   },
7   "notifications": {
8     "email": "joseph.price@contoso.com",
9     "phone": "(425) 555-0162 x4151"
10 }
11

```

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

<Error>
  <Code>ResourceNotFound</Code>
  <Message>The specified resource does not exist. RequestId:af3c1944-101e-0017-7209-2172ae000000 Time:2022-02-13T18:43:30.3102656Z</Message>
</Error>

```

```

Prompt de Comando
Microsoft Windows [versão 10.0.22000.493]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Users\César>cd C:\Users\César\Downloads\02\Starter\func
C:\Users\César\Downloads\02\Starter\func>az login
The default web browser has been opened at https://login.microsoftonline.com/organizations/oauth2/v2.0/authorize. Please
continue the login in the web browser. If no web browser is available or if the web browser fails to open, use device c
ode flow with `az login --use-device-code`.
[{"cloudName": "AzureCloud",
"homeTenantId": "11dbbf2e-89b8-4549-be10-cec364e59551",
"id": "e9f95a8f-8b61-4f30-91a4-5841936234db",
"isDefault": true,
"managedByTenants": [],
"name": "Azure for Students",
"state": "Enabled",
"tenantId": "11dbbf2e-89b8-4549-be10-cec364e59551",
"user": {
"name": "RM341505@fiap.com.br",
"type": "user"
}
}]
C:\Users\César\Downloads\02\Starter\func>

```

```

func azure functionapp publish funclogiccesar01
az account set --subscription "Azure for Students"

```

```

Prompt de Comando - func azure functionapp publish funclogiccesar01
: account list
: a list of subscriptions for the logged in account. ( autogenerated )
: account show
: t the details of a subscription. ( autogenerated )
: https://docs.microsoft.com/en-US/cli/azure/account#az_account_set
: ad more about the command in reference docs

\Users\César\Downloads\02\Starter\func>az account set --subscription "Azure for Students"

\Users\César\Downloads\02\Starter\func>func azure functionapp publish funclogiccesar01
Microsoft(R) Build Engine versão 17.0.0+0e9b9dd64 para .NET
pyright (C) Microsoft Corporation. Todos os direitos reservados.

Determinando os projetos a serem restaurados...
Todos os projetos estão atualizados para restauração.
Starter -> C:\Users\César\Downloads\02\Starter\func\bin\publish\Starter.dll

Compilação com êxito.
  0 Aviso(s)
  0 Erro(s)

Tempo Decorrido 00:00:07.95

Getting site publishing info...
Loading package...
loading 10,2 MB [#####
-----] 
```

```

Prompt de Comando
Determinando os projetos a serem restaurados...
Todos os projetos estão atualizados para restauração.
Starter -> C:\Users\César\Downloads\02\Starter\func\bin\publish\Starter.dll

Compilação com êxito.
  0 Aviso(s)
  0 Erro(s)

Tempo Decorrido 00:00:07.95

Getting site publishing info...
Uploading package...
Uploading 10,2 MB [#####
-----]
Upload completed successfully.
Deployment completed successfully.
Syncing triggers...
Functions in funclogiccesar01:
  Echo - [httpTrigger]
    Invoke url: https://funclogiccesar01.azurewebsites.net/api/echo?code=6kpNoeNXD1lVF8SxaoFO3hwQU1g2bQvU1H61QX0Z5VrTnog3Krc1A==

  GetSettingInfo - [httpTrigger]
    Invoke url: https://funclogiccesar01.azurewebsites.net/api/getsettinginfo?code=88QM7XX1VJm/B4YHchHj/btXU91i5RMsrMsw9Wzfb90yRQ5bDk8Hg==

  Recurring - [timerTrigger]

:\Users\César\Downloads\02\Starter\func>

```

## Functions in funclogiccesar01:

Echo - [httpTrigger]

Invoke url:

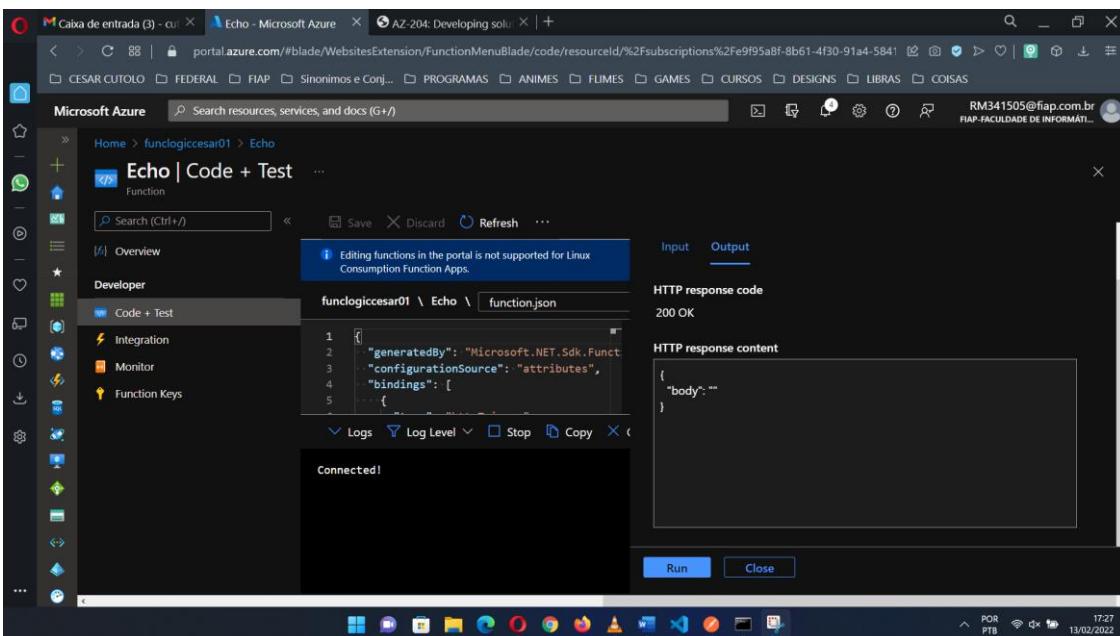
<https://funclogiccesar01.azurewebsites.net/api/echo?code=6kpNoeNXD1lVF8SxaoFO3hwQU1g2bQwUIH61QX0Z5VrbTnog3KrC1A==>

GetSettingInfo - [httpTrigger]

Invoke url:

<https://funclogiccesar01.azurewebsites.net/api/getsettinginfo?code=88GM7XX1VJm/B4YHchHj/btXU91iSRMsR/Msw9WzFb90yRQ5bDk8Hg==>

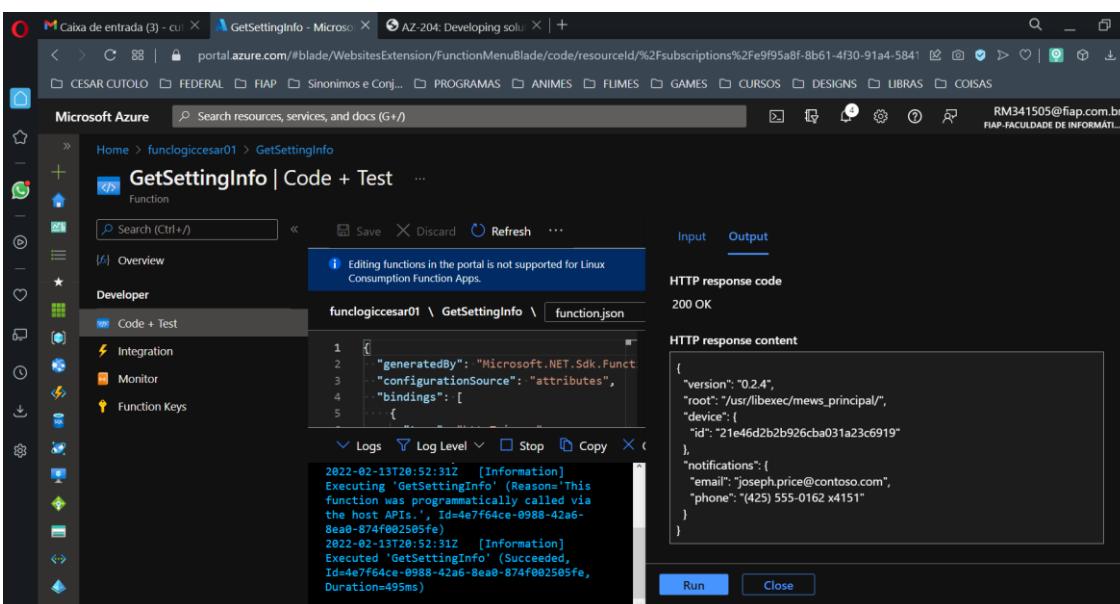
Recurring - [timerTrigger]



The screenshot shows the Microsoft Azure portal interface for the Echo function. The left sidebar shows the function's structure: Home > funclogiccesar01 > Echo. The main area displays the function code in a JSON file named function.json. The code is as follows:

```
1  {
2     "generatedBy": "Microsoft.NET.Sdk.Functions",
3     "configurationSource": "attributes",
4     "bindings": [
5         ...
6     ]
7 }
```

Below the code, there are tabs for Input and Output, and sections for HTTP response code (200 OK) and HTTP response content. The content is currently empty, showing only the placeholder code: { "body": "" }. At the bottom, there are Run and Close buttons.



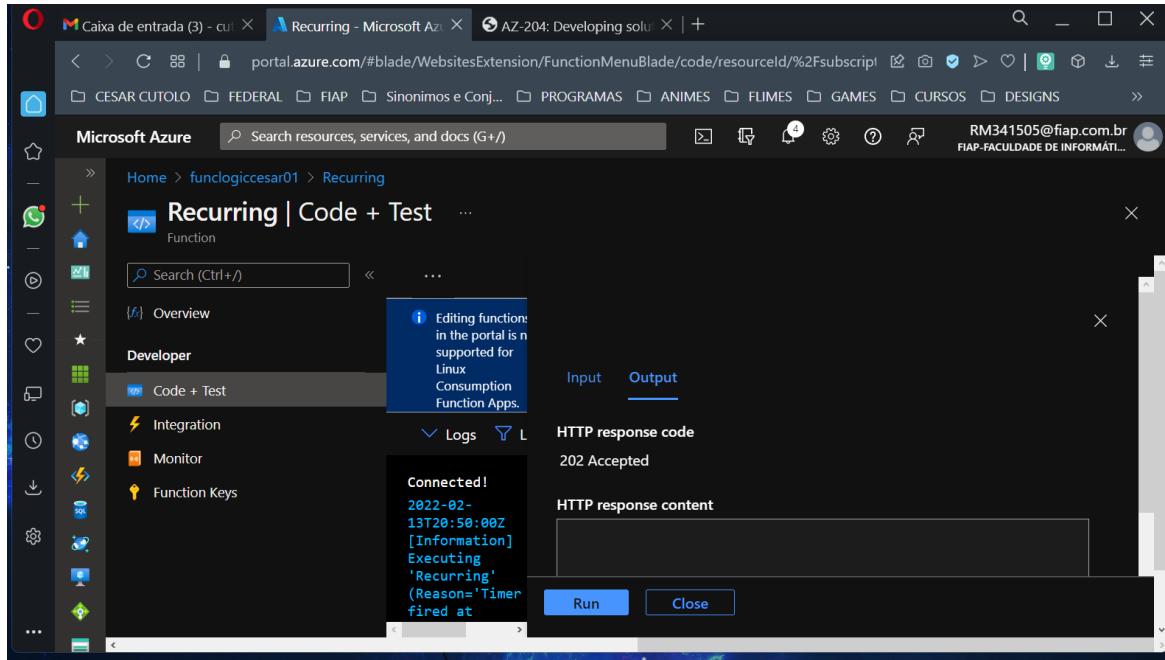
The screenshot shows the Microsoft Azure portal interface for the GetSettingInfo function. The left sidebar shows the function's structure: Home > funclogiccesar01 > GetSettingInfo. The main area displays the function code in a JSON file named function.json. The code is identical to the Echo function:

```
1  {
2     "generatedBy": "Microsoft.NET.Sdk.Functions",
3     "configurationSource": "attributes",
4     "bindings": [
5         ...
6     ]
7 }
```

Below the code, there are tabs for Input and Output, and sections for HTTP response code (200 OK) and HTTP response content. The content shows the logs and the executed function details. The logs output the following information:

```
2022-02-13T20:52:31Z [Information] Executing 'GetSettingInfo' (Reason='This function was programmatically called via the host APIs.', Id=4e7fc4ce-0988-42a6-8ea0-874f002505fe)
2022-02-13T20:52:31Z [Information] Executed 'GetSettingInfo' (Succeeded, Id=4e7fc4ce-0988-42a6-8ea0-874f002505fe, Duration=95ms)
```

The HTTP response content shows the function's output, which includes version, root, device, notifications, email, and phone number.



<https://docs.microsoft.com/en-us/azure/aks/kubernetes-walkthrough>

Conforme falamos, favor fazer o upload dos prints das aulas abaixo:

Aula 2: Como implementar um ambiente no Azure do zero (IaaS) - Topologia de Rede (Diagram)

Aula 2: Como implementar um storage e fazer o upload de uma imagem

Aula 3: Como publicar uma API no Azure (PaaS) - Upload de Imagens

[https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204\\_lab\\_01.html](https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204_lab_01.html)

Aula 4: Publicar API via API Management

[https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204\\_lab\\_08.html](https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204_lab_08.html)

Aula 5: Como implementar do AKS

[https://github.com/MicrosoftLearning/AZ-104-MicrosoftAzureAdministrator/blob/master/Instructions/Labs/LAB\\_09c-Implement\\_Azure\\_Kubernetes\\_Service.md](https://github.com/MicrosoftLearning/AZ-104-MicrosoftAzureAdministrator/blob/master/Instructions/Labs/LAB_09c-Implement_Azure_Kubernetes_Service.md)

Aula 6: Publicar Azure Fuctions

[https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204\\_lab\\_02.html#exercise-5-create-a-function-that-integrates-with-other-services](https://microsoftlearning.github.io/AZ-204-DevelopingSolutionsforMicrosoftAzure/Instructions/Labs/AZ-204_lab_02.html#exercise-5-create-a-function-that-integrates-with-other-services)

