

# Azure App Service e Function com *Linux* e *NodeJS*

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## GLOBAL AZURE BOOTCAMP 2018

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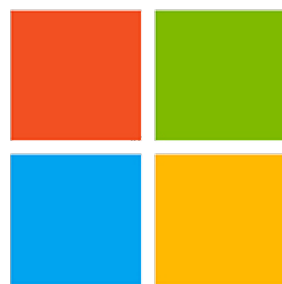
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**Nossos agradecimentos aos Patrocinadores Globais de 2018**



# Apresentação

Alexandre Bolzon  
Venturus desde 2011



- Início na programação com C/C++ (2005)
- Bacharel em Ciência da Computação (2008)
- Aplicações web com .NET (2010)
- Arquiteto no Venturus (2015)

Foco atual em Cloud com .NET Core e NodeJS,  
bancos NoSQL, e arquiteturas produtivas.

# Agenda

- Azure App Service (PaaS)
- Azure Functions (FaaS)
- Azure CLI – Azure Cloud Shell + terminal local
- Demo – App Service + Functions
- Dúvidas

# Azure App Service (PaaS)



- Estruturas prontas (Windows e **Linux**)
- **API**, Mobile e Web apps
- .NET, .NET Core, Ruby, Java, Python e **NodeJS**
- Infraestrutura e load balancer gerenciados

# Azure Function (FaaS)

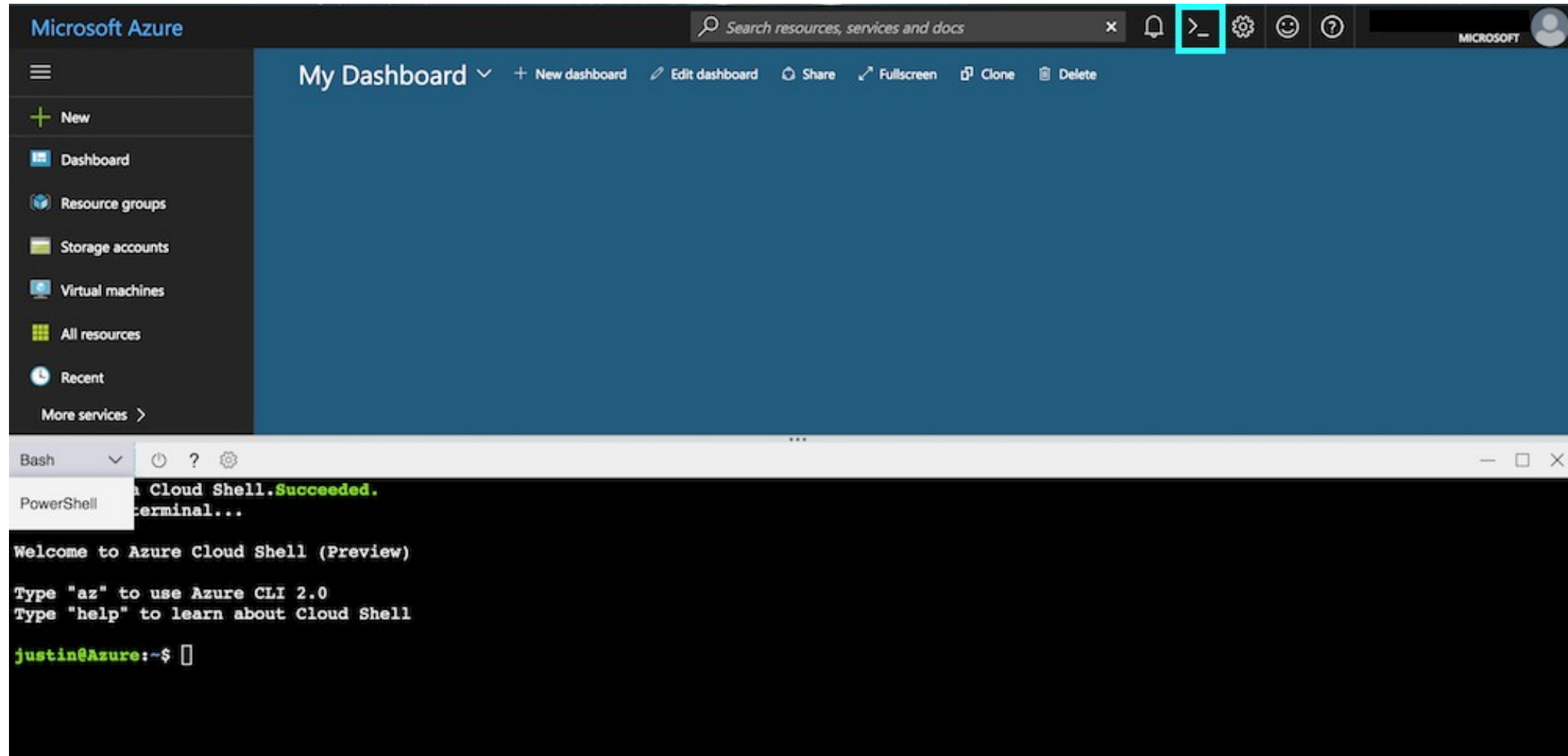
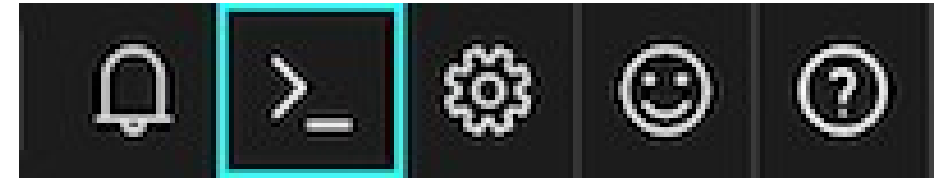


- Arquitetura **Serverless**
- Execução orientada a **eventos**
- C#, Java, Python, Bash, PowerShell e **JavaScript**

# Azure CLI

- Interface de linha de comandos utilizada para gerenciar recursos da Azure
- Duas opções de utilização:
  - No browser (Bash ou PowerShell)
  - No terminal local (Linux/Bash ou Windows/PowerShell)

# Azure CLI – Browser



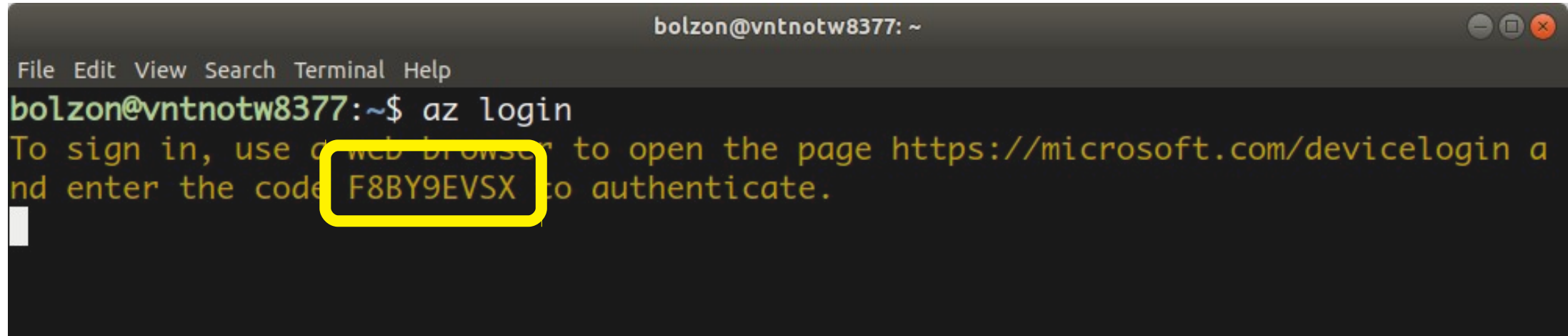


# Azure CLI – Terminal

- Instalar o Azure CLI e rodar comando **az**

```
bolzon@vntnotw8377: ~  
File Edit View Search Terminal Help  
bolzon@vntnotw8377:~$ az  
  
      /\n     /\ \n    /  \ \n   /____\ \n  /_____ \ \n /_/_/_/_ \_\n\nWelcome to the cool new Azure CLI!
```

# Azure CLI – Login

A terminal window titled 'bolzon@vntnotw8377: ~' with standard macOS window controls. The terminal shows the command 'az login' being executed. The output instructs the user to use a web browser to open 'https://microsoft.com/devicelogin' and enter the code 'F8BY9EVSX', which is highlighted with a yellow box. A cursor is visible on the line following the instructions.

```
bolzon@vntnotw8377: ~$ az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code F8BY9EVSX to authenticate.
```

# Azure CLI – Login



## Device Login

Enter the code that you received from the application on your device

F8BY9EVSX

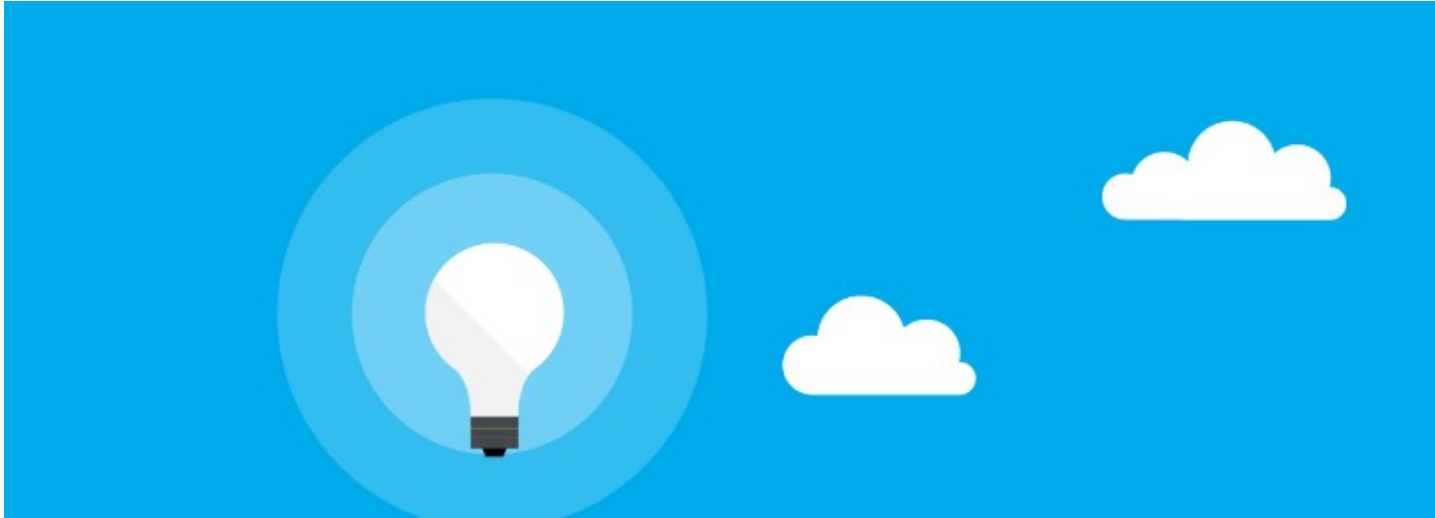
Microsoft Azure Cross-  
platform Command Line  
Interface

Click Cancel if this isn't the application you were  
trying to sign in to on your device.

Continue

Cancel

# Azure CLI – Login



Microsoft Azure Cross-platform Command Line Interface

You have signed in to the Microsoft Azure Cross-platform Command Line Interface application on your device. You may now close this window.



# DEMO

Código e referências



/bolzon/azure-bootcamp

A blue-tinted background image of a desk. In the upper left, a laptop keyboard is visible with keys like 'Caps Lock', 'Shift', 'Fn', and 'Ctrl'. A silver pen lies diagonally across the middle left. On the right, there are some papers, one of which has 'ABC' written on it. The overall scene is a workspace or office environment.

# App Service + NodeJS

# Demo – App Service + NodeJS

- Rode a aplicação para verificar se está ok:

```
git clone https://github.com/bolzon/azure-bootcamp  
cd azure-bootcamp/nodejs-appservice  
npm install  
npm start
```

- Abra <http://localhost:1337> no navegador

# Demo – App Service + NodeJS

- Criar um usuário de deployment
- Criar um resource group
- Criar um Azure App Service plan
- Criar um web app
- Push do Git para Azure



# Demo – App Service + NodeJS

- Criar um usuário de deployment

```
az webapp deployment user set \  
  --user-name <username> \  
  --password <password>
```

# Demo – App Service + NodeJS

- Criar um resource group

```
az group create \  
  --name myResourceGroup \  
  --location "West Europe"
```

# Demo – App Service + NodeJS

- Criar um Azure App Service plan

```
az appservice plan create \  
  --name myAppServicePlan \  
  --resource-group myResourceGroup \  
  --sku S1 \  
  --is-linux
```

# Demo – App Service + NodeJS

- Criar um web app

```
az webapp create \  
  --resource-group myResourceGroup \  
  --plan myAppServicePlan \  
  --name <app_name> \  
  --runtime "NODE|8.6" \  
  --deployment-local-git
```

- Guardar a URL de `deploymentLocalGitUrl`



# Demo – App Service + NodeJS

- Push do Git para Azure

```
git remote add azure <deploymentLocalGitUrl>
```

```
git push azure master
```

# Demo – App Service + NodeJS

- Abrir URL do app

[http://<app\\_name>.azurewebsites.net](http://<app_name>.azurewebsites.net)

The background is a blue-tinted photograph of a workspace. It features a laptop keyboard with visible keys like 'Caps Lock', 'Shift', 'Fn', and 'Ctrl'. A silver pen lies diagonally across the lower left. To the right, there are some papers, one of which has 'ABC' written on it. The overall aesthetic is clean and professional, typical of a tech or educational presentation.

# Function + NodeJS

# Demo – Function + NodeJS

- Rode a aplicação para verificar se está ok:

```
git clone https://github.com/bolzon/azure-bootcamp  
cd azure-bootcamp/nodejs-function  
npm install  
npm start
```

- Abra <http://localhost:1337> no navegador





DÚVIDAS

# OBRIGADO



**Alexandre Bolzon**  
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