

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

GLOBAL AZURE BOOTCAMP 2018

Alexandre Bolzon | about.me/bolzon



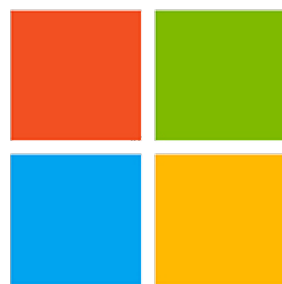
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Nossos agradecimentos aos Patrocinadores Globais de 2018

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 Function (FaaS)
- Azure CLI – Azure Cloud Shell + terminal local
- Demo – App Service + NodeJS
- Demo – Function + JavaScript

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** (worryless)
- Execução orientada a **eventos**
- C#, Java, Python, Bash, PowerShell e **JavaScript**

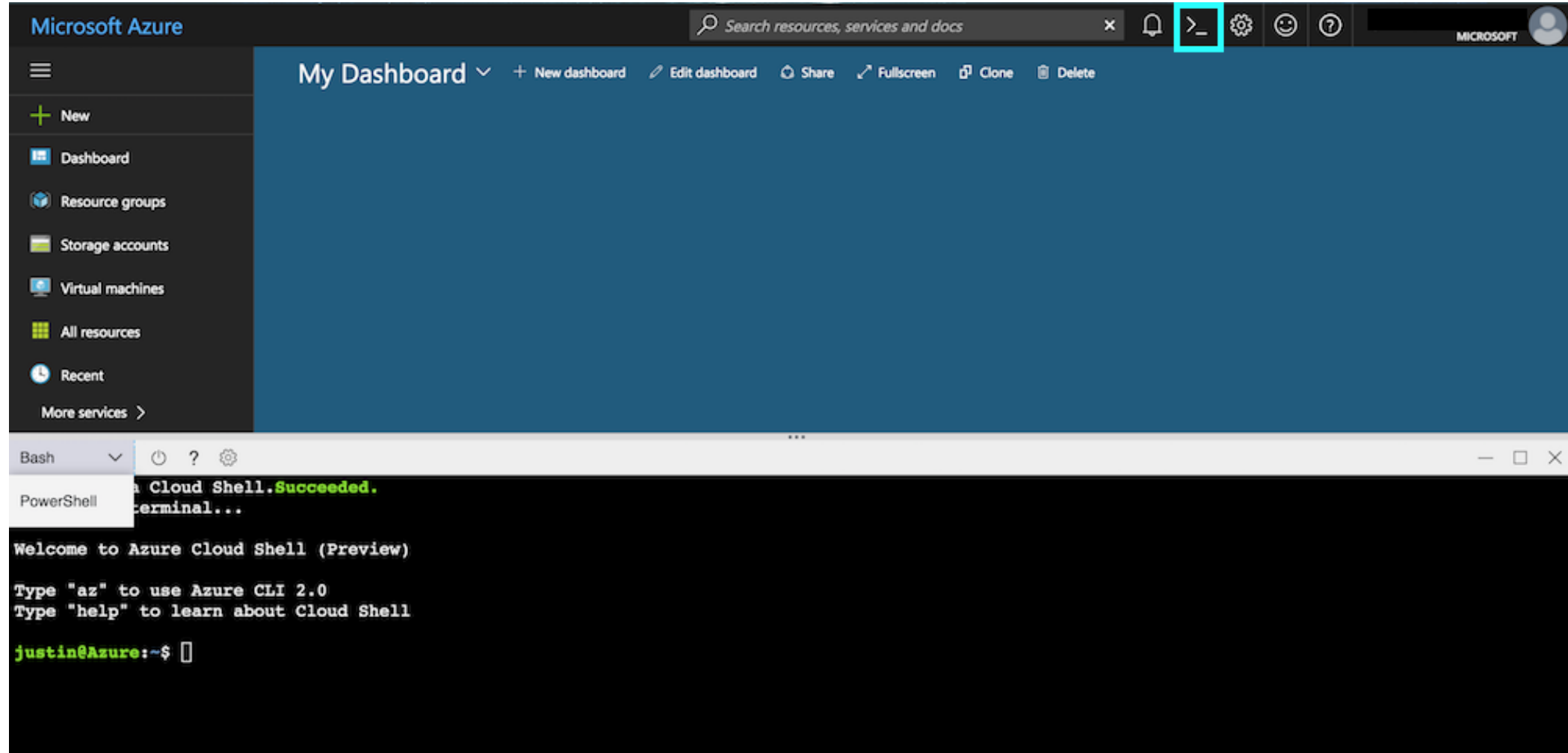
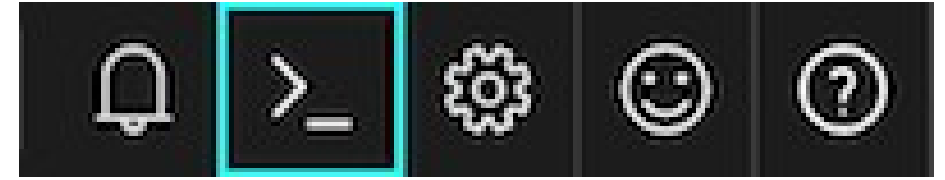
The background is a blue-tinted photograph of a workspace. It features a laptop keyboard with visible keys like 'Caps Lock', 'Shift', 'Fn', and 'Ctrl'. A silver pen lies diagonally across the lower left. To the right, there are some papers, one of which has 'ABC' written on it. The overall aesthetic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

Azure CLI

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)

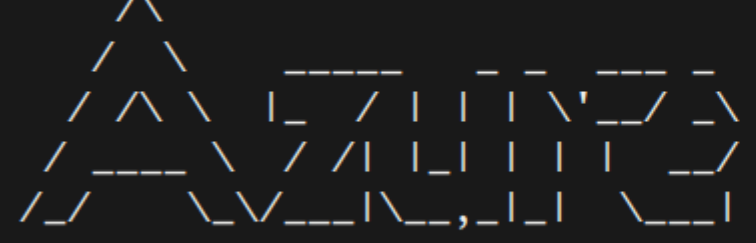
Azure CLI – Browser



Azure CLI – Terminal

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

```
bolzon@vntnotw8377: ~  
File Edit View Search Terminal Help  
bolzon@vntnotw8377:~$ az
```



```
Welcome to the cool new Azure CLI!
```

Azure CLI – Login

A terminal window titled 'bolzon@vntnotw8377: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'bolzon@vntnotw8377:~\$' followed by the command 'az login'. The output text is 'To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code F8BY9EVSX to authenticate.' The URL and the code are highlighted with yellow boxes.

```
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

- Clone e execução da aplicação local

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

- Abrir <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 "Brazil South"
```

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|8.1" \  
  --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 # deploy do código
```

...

```
git commit -am 'código atualizado'  
git push azure master # re-deploy do código
```

Demo – App Service + NodeJS

- Executar web app

http://<app_name>.azurewebsites.net

Demo – App Service + NodeJS

- Limpar recursos criados

`az group delete --name myResourceGroup`

ATENÇÃO: este comando apaga tudo que foi feito anteriormente

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Function + JavaScript

Demo – Function + JavaScript

- Criar função para somar dois números

<https://github.com/bolzoni/azure-function-nodejs/blob/master/azure-function.js>

Demo – Function + JavaScript

- Testar chamada da função

```
azure-appservice-nodejs $  
sh call_func.sh <url_appservice> <url_function>
```

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Dúvidas

Obrigado ;)



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