Global Azure Bootcamp 2018 Bogotá con CloudFirst Camp
Sabado 21 de Abril a las 8 a.m. en la Universidad EAN
Calle 79 No. 11 - 45

Azure PowerShell o Azure CLI

Fabián Alberto Campo H.

Azure Architect MCSD, MCSE Windows 2016 +Messaging +PrivateCloud

Aula Santa Fé -3:30 PM

Esta conferencia es su punto de partida en el multiverso de Azure, usted administrador, desarrollador, devops, arquitecto, debe conocer realmente como funciona Azure “under the Hood”.

2018

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BOGOTÁ, COLOMBIA

¡Bienvenidos!

21 Abril 2018

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¡Participa y Gana!

#GlobalAzure
#CloudFirstCamp

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Este evento es sostenible, gracias a

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Azure PowerShell o Azure CLI

Fabian Alberto Campo

MCSD Azure, MCSE W2016 +messaging +privatecloud

@fcampo

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Fabian Alberto Campo

http://fcampo7463.wordpress.com

linkedin.com/fcampo

@fcampo

fcampo@hotmail.com

http://www.mycertprofile.com/Profile/7088698827

Consultor - Líder CDS

GLUP Management Group

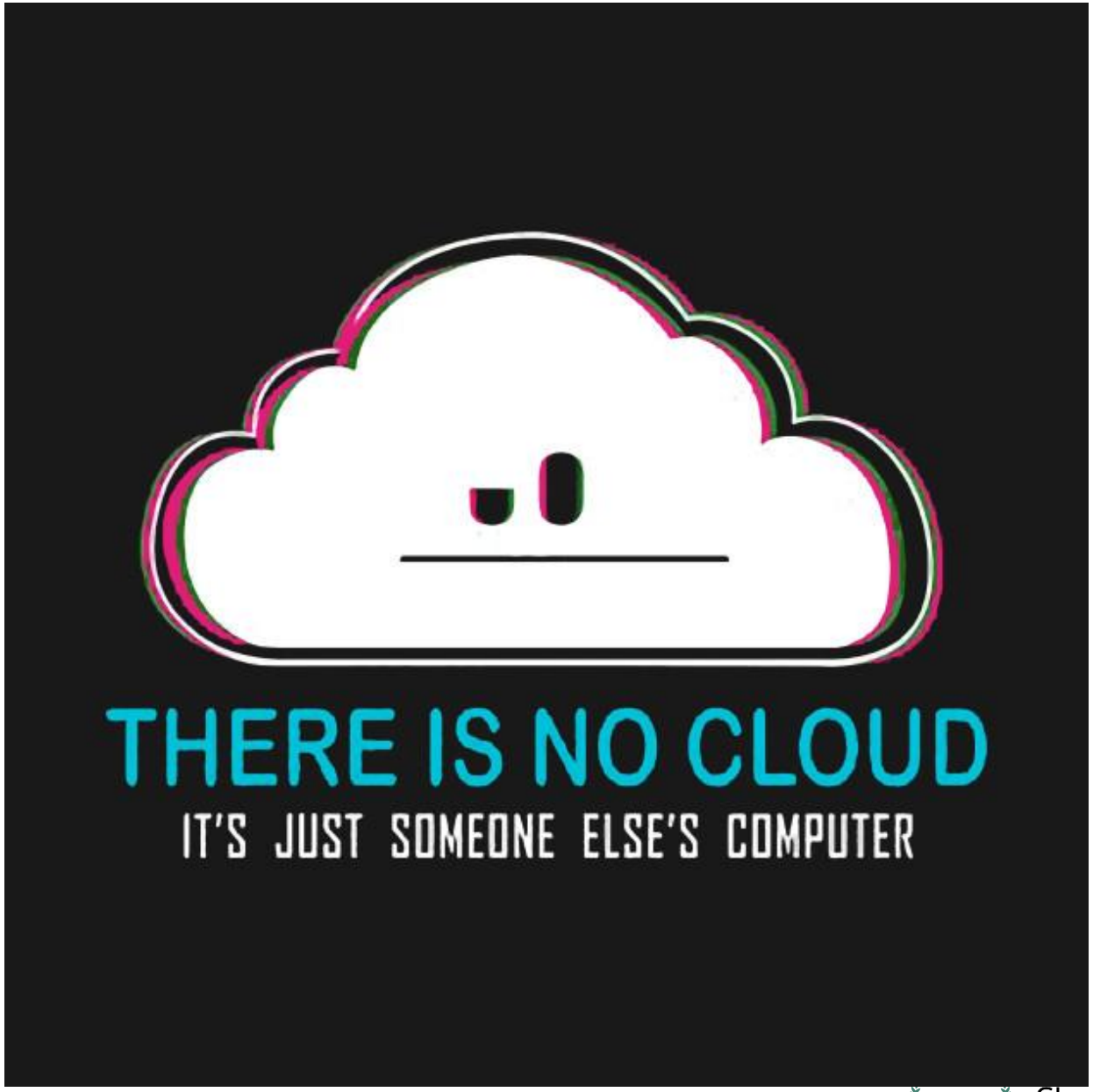
Creamos Vínculos

Agenda

- Bienvenida
- Azure desde otro ángulo
- Azure y la multiplataforma
- Azure visto como DevOps
- Arquitectura desde la línea de comandos


Azure
Your vision, your results, your cloud
Fabian Alberto Campo
Consultor – MCT – MCSE- MCSD Azure Architect
Microsoft

Que es Azure?



NIST
National Institute of Standards and Technology
U.S. Department of Commerce

Special Publication 800-145

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The NIST Definition of Cloud Computing

- Auto Servicio On Demand
- Recursos comunes
- Elasticidad rápida
- Servicio Medible
- Acceso por red (Internet)

https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-145.pdf

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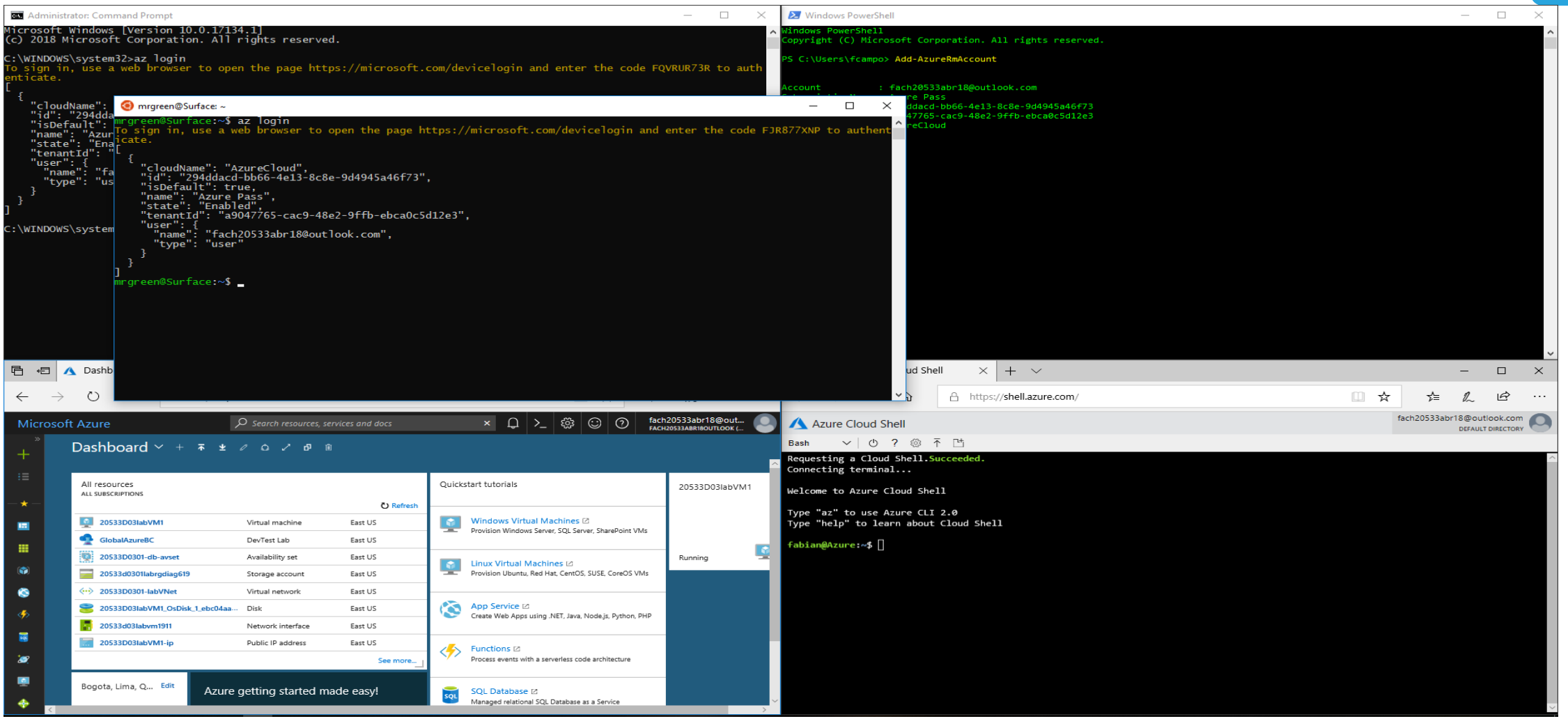
Azure Multiplataforma



Azure PowerShell

Connect-AzureRmAccount

New-AzureRMResourceGroup –Name “GlobalAzureBC-RG” –Location “EastUS”

New-AzureRmStorageAccount -ResourceGroupName “GABC18” -Name gabc18storage33 -Location westus -SkuName standard_lrs

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Demo

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Azure CLI

- https://docs.microsoft.com/en-us/cli/azure/index?view=azure-cli-latest

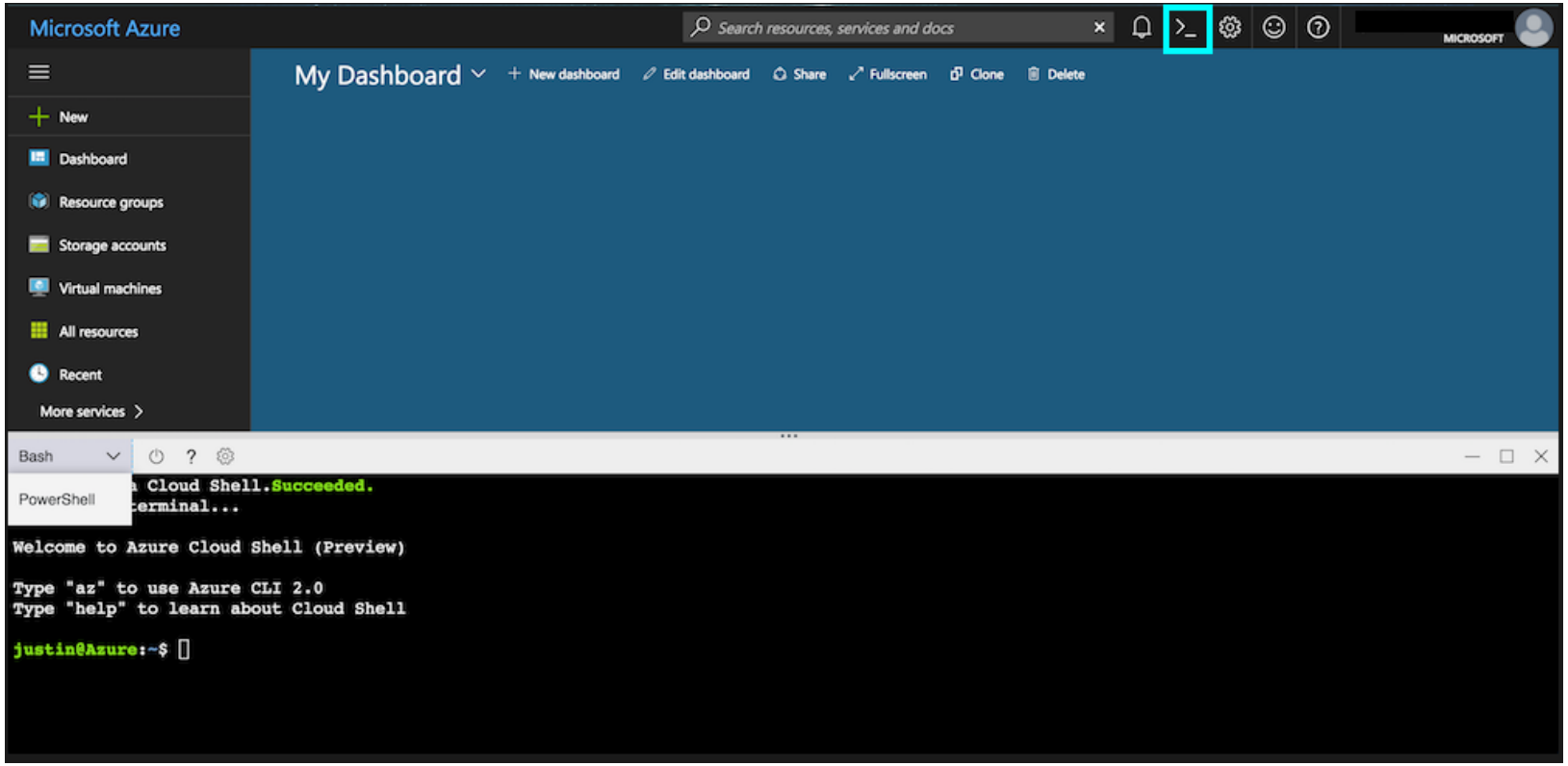
az account list

az account set –subscription “GlobalABC2018”

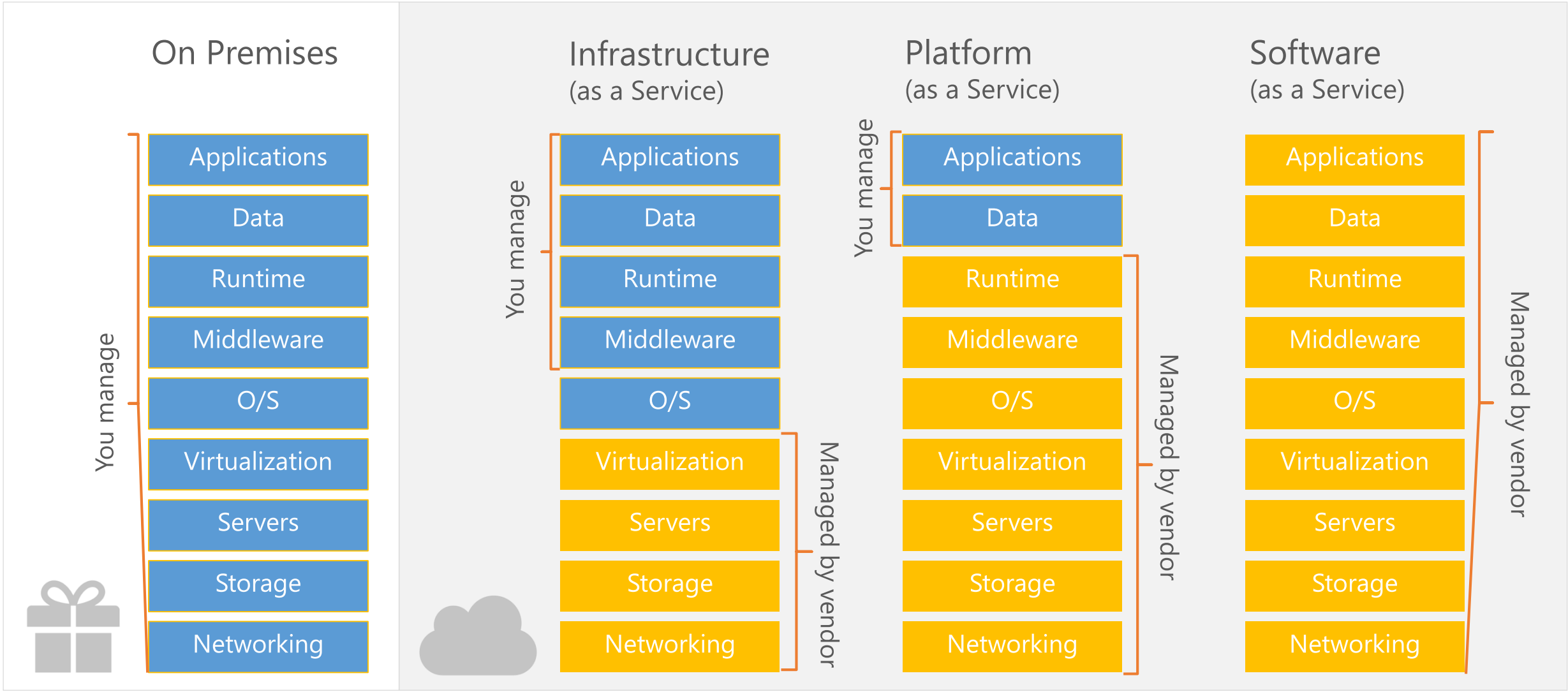
az vm create -n MyLinuxVM -g MyResourceGroup --image UbuntuLTS

Shell.azure.com

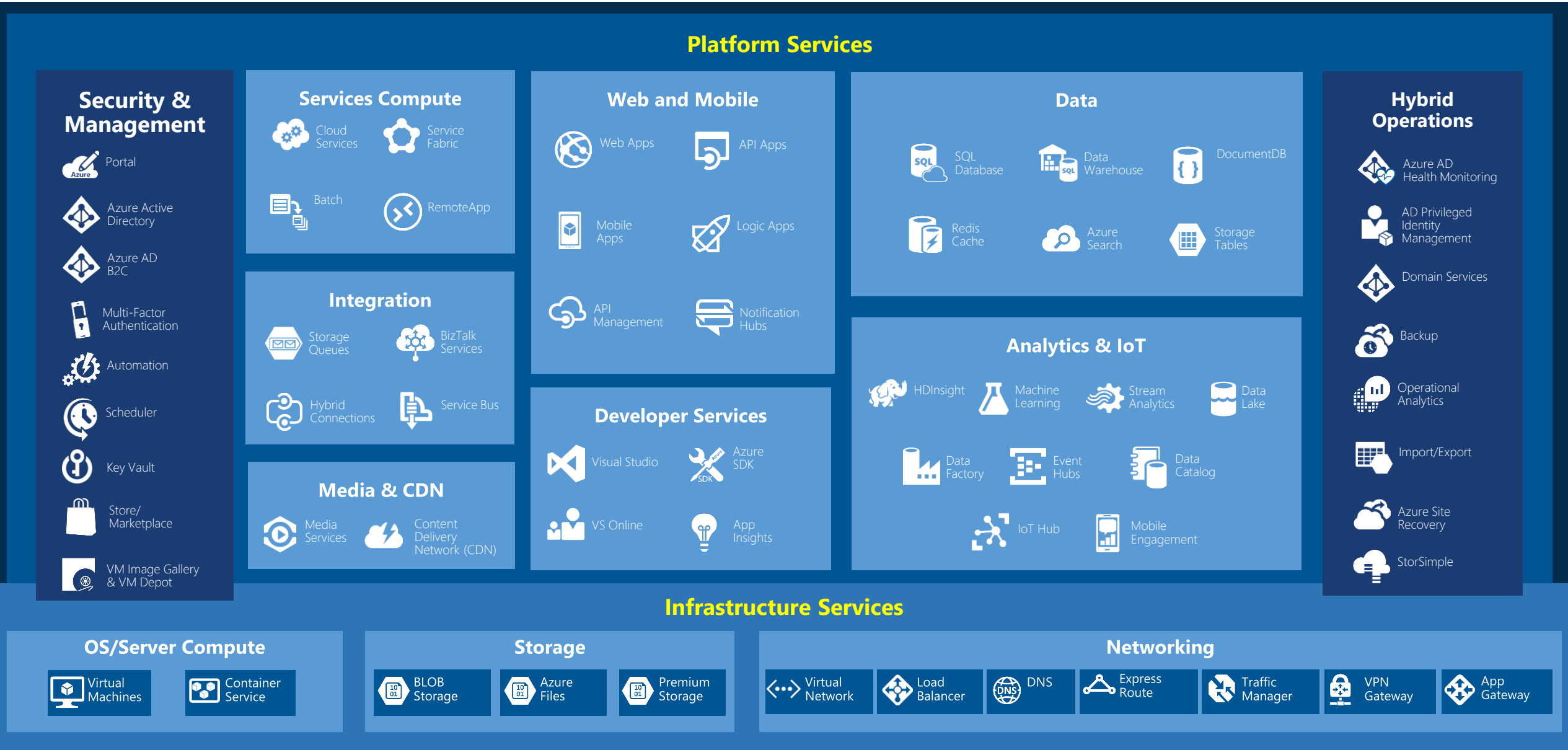
- https://docs.microsoft.com/es-es/azure/cloud-shell/overview



Arquitectura desde la linea de comandos



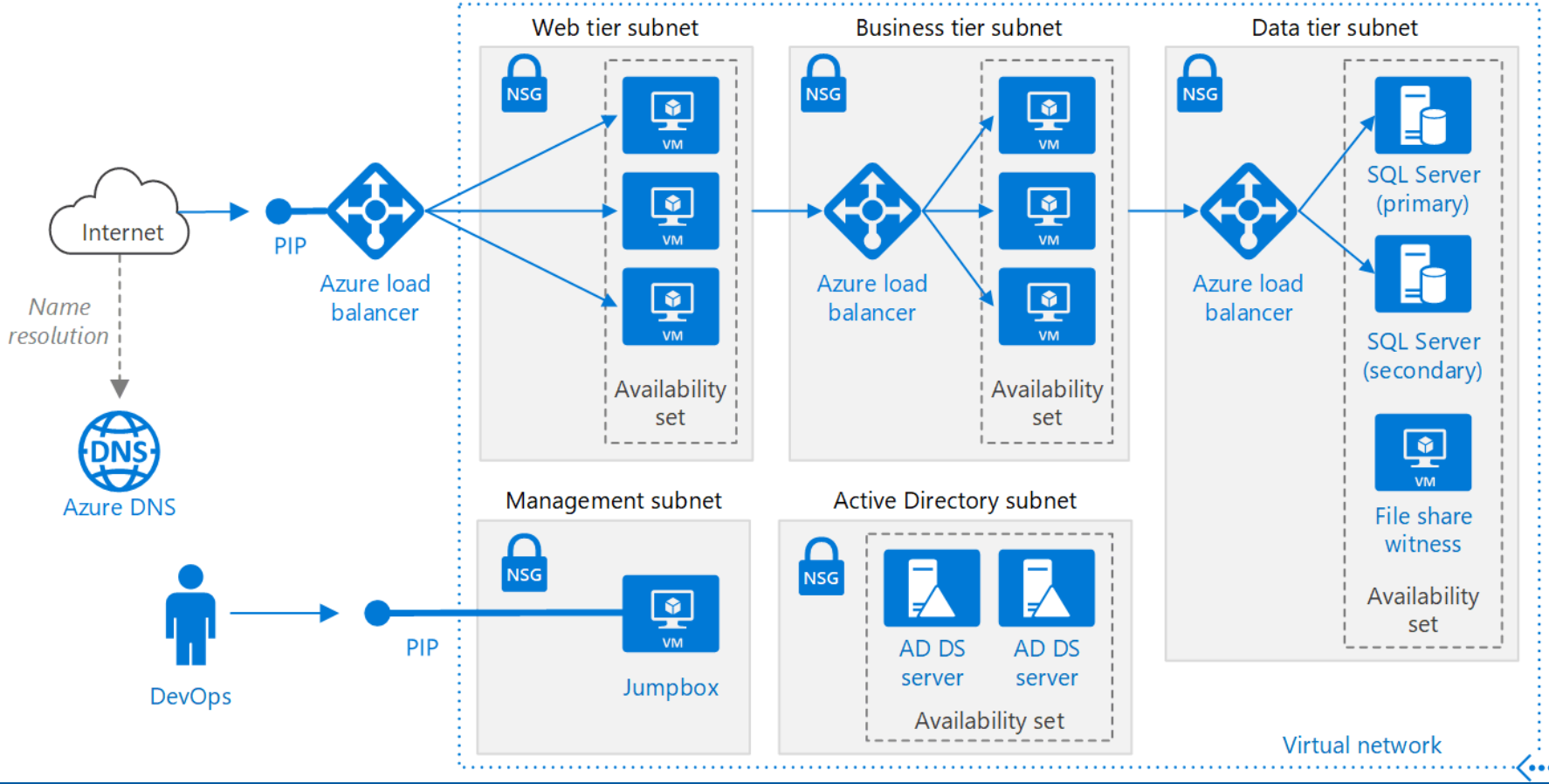
Azure offer


Platform Services
Security & Management
Portal
Azure Active Directory
Azure AD B2C
Multi-Factor Authentication
Automation
Scheduler
Key Vault
Store/ Marketplace
VM Image Gallery & VM Depot
Services Compute
Cloud Services
Service Fabric
Batch
RemoteApp
Integration
Storage Queues
BizTalk Services
Hybrid Connections
Service Bus
Media & CDN
Media Services
Content Delivery Network (CDN)
Web and Mobile
Web Apps
API Apps
Mobile Apps
Logic Apps
API Management
Notification Hubs
Developer Services
Visual Studio
Azure SDK
VS Online
App Insights
Data
SQL Database
Data Warehouse
DocumentDB
Redis Cache
Azure Search
Storage Tables
Analytics & IoT
HDInsight
Machine Learning
Stream Analytics
Data Lake
Data Factory
Event Hubs
Data Catalog
IoT Hub
Mobile Engagement
Hybrid Operations
Azure AD Health Monitoring
AD Privileged Identity Management
Domain Services
Backup
Operational Analytics
Import/Export
Azure Site Recovery
StorSimple
Infrastructure Services
OS/Server Compute
Virtual Machines
Container Service
Storage
BLOB Storage
Azure Files
Premium Storage
Networking
Virtual Network
Load Balancer
DNS
Express Route
Traffic Manager
VPN Gateway
App Gateway

Dev/Test

Lift and Shift

Azure

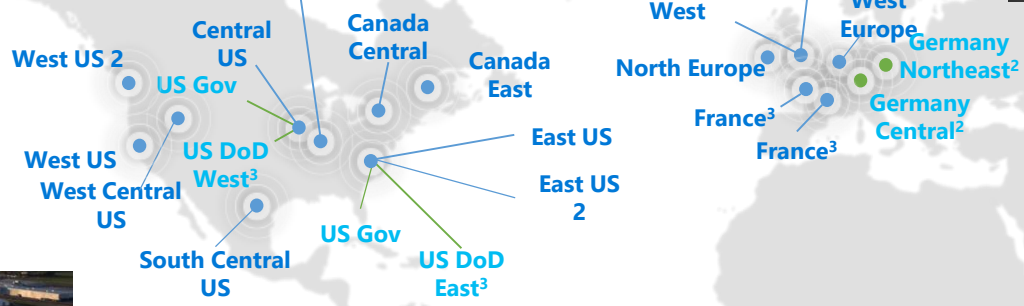


Dev/Test

Azure

Service type	Custom name	Region	Description	SKU	Estimated Cost
Virtual Machines	Web Tier	East US	6 D11 v2 (2 vCPU(s), 14 GB RAM) x 732 Hours; Windows – (OS Only); Pay as you go; 4 managed OS disks – S15	997-03368, AAA-70156	$1,270.47
Virtual Machines	Database Tier	East US	4 D4 v2 (8 vCPU(s), 28 GB RAM) x 732 Hours; Windows – SQL Server; Pay as you go; 4 managed OS disks – S30	N7H-07129, N9H-00910	$11,710.72
Virtual Machines	Application Tier	East US	6 D4 v2 (8 vCPU(s), 28 GB RAM) x 732 Hours; Windows – (OS Only); Pay as you go; 6 managed OS disks – S15	997-03503, AAA-70156	$4,238.96
Virtual Machines	1 Mgmt. VM, 2 ADFS	East US	3 D2 (2 vCPU(s), 7 GB RAM) x 732 Hours; Windows – (OS Only); Pay as you go; 3 managed OS disks – S15	997-00924, AAA-70156	$551.53
VPN Gateway	Hybrid On Premise Connection	East US	VPN Gateways type, Basic VPN tier, 0 gateway hour(s), 1000 , VPN outbound VPN gateway type	Q5H-00003	$73.58
Virtual Network	Virtual Networking		1000 data transfer from East US region to East US region		$20.00
Azure DNS	10 Zones	East US	10 hosted DNS zones, 100 DNS queries	,	$45.00
Azure DDoS Protection	Included	East US	There are no charges to use Azure DDoS Protection while in preview. When the service goes GA, pricing goes into effect. Customers will be notified 30 days prior to pricing changes.		$0.00
Storage	Files, Pictures, Videos, etc.	East US	Block Blob Storage, General Purpose V2, LRS Redundancy, Hot Access Tier, 1000 Capacity, 100,000 Write operations, 100,000 List and Create Container Operations, 100,000 Read operations, 1 Other operations. 1,000 Data Retrieval, 1,000 Data Write	N9H-00074, N9H-01253, N9H-01253, N9H-01236, AAA-70098	$18.56
Support			Free level	Support	$0.00
				Monthly Total	**$17,928.83**
				Annual Total	**$215,145.92**

Azure visto como devops



100+ datacenters

and

Millions of Servers

Global datacenters

Sovereign datacenters

Grupos de recursos

- **PowerShell**

New-AzureRMResourceGroup –Name “GlobalAzureBC-RG” –Location “EastUS”

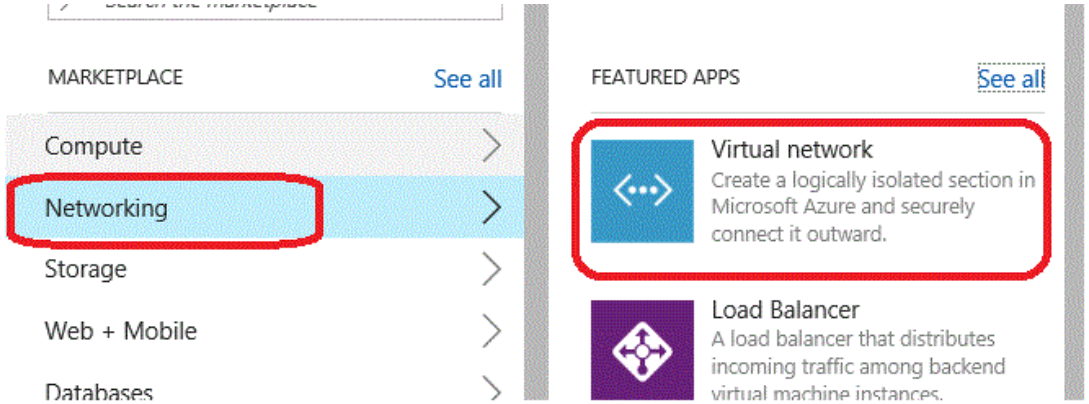
Get-AzureRMResourceGroup |FT

- **Azure CLI**

az group create --name “GlobalAzureBC-RG2” --location “westus”

az group delete –name “MyResourceGroup2”

Networking

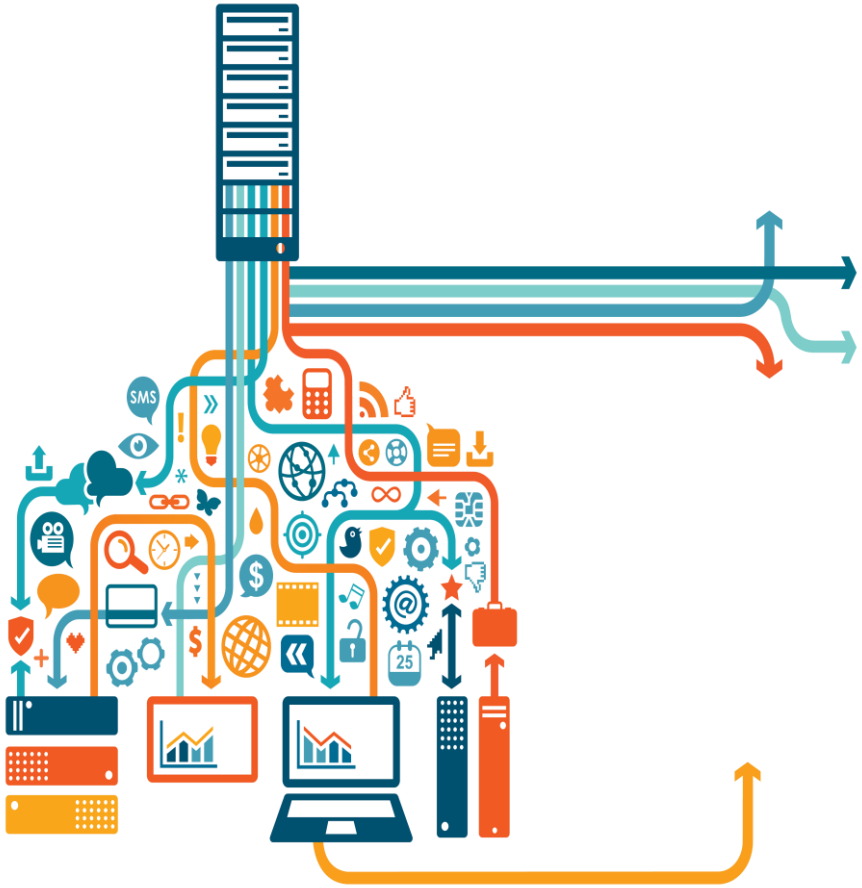


Azure CLI

- **Network Interface Cards**

az network nic create --resource-group AdatumRG --name AdatumNIC --location centralus --subnet default \--private-ip-address 192.168.0.10 --vnet-name AdatumVNet

Storage Account



Azure CLI

- **Storage accounts**

az storage account create –location westus –name anstorage99 –resource-group globalabc18 –sku Standard_LRS

az storage account show-connection-string –name anstorage99 –resource-group globalabc18

Export azure_storage_account=anstorage99

Export azure_storage_Access_key=<Key>

Export azure_Storage_Connection_String="<connection_string>"

- **blobs**

az storage container create --name <container_name>

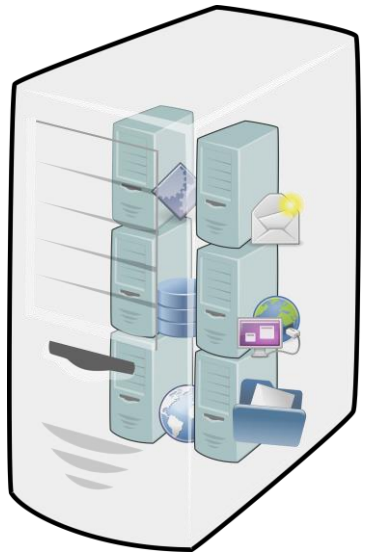
az storage blob upload --file <local_file_path> --container-name <container_name> --name <blob_name>

SQL

Azure CLI

```
#!/bin/bash

# Set an admin login and password for your database

export adminlogin=ServerAdmin

export password=ChangeYourAdminPassword1

# The logical server name has to be unique in the system

export servername=server-$RANDOM

# The ip address range that you want to allow to access your DB

export startip=0.0.0.0

export endip=0.0.0.0

# Create a resource group

az group create -name myResourceGroup --location westeurope

# Create a logical server in the resource group

az sql server create --name $servername --resource-group myResourceGroup --location westeurope  --admin-user $adminlogin --admin-password $password

# Configure a firewall rule for the server

az sql server firewall-rule create --resource-group myResourceGroup --server $servername -n AllowYourIp --start-ip-address $startip --end-ip-address $endip

# Create a database in the server with zone redundancy as true

az sql db create --resource-group myResourceGroup --server $servername --name mySampleDatabase --sample-name AdventureWorksLT --service-objective S0 --zone-redundant

# Update database and set zone redundancy as false

az sql db update --resource-group myResourceGroup --server $servername --name mySampleDatabase --zone-redundant false
```

VM



Azure CLI

```
#!/bin/bash
# Update for your admin password
AdminPassword=ChangeYourAdminPassword1
# Create a resource group.
az group create --name myResourceGroup --location westus
# Create a virtual machine.
az vm create --resource-group myResourceGroup \
    --name myVM --image win2016datacenter \
    --admin-username azureuser \
    --admin-password $AdminPassword --no-wait
```

WebApps

Azure CLI

```
#!/bin/bash

warurl=https://raw.githubusercontent.com/Azure-Samples/html-docs-hello-world/master/index.html

webappname=mywebapp$RANDOM

# Download sample static HTML page

curl $warurl --output index.html

# Create a resource group.

az group create --location westeurope --name myResourceGroup

# Create an App Service plan in `FREE` tier.

az appservice plan create --name myAppServicePlan --resource-group myResourceGroup --sku FREE

# Create a web app.

az webapp create --name $webappname --resource-group myResourceGroup --plan myAppServicePlan

# Get FTP publishing profile and query for publish URL and credentials

creds=($(az webapp deployment list-publishing-profiles --name $webappname --resource-group
myResourceGroup \

--query "[?contains(publishMethod, 'FTP')].[publishUrl,userName,userPWD]" --output tsv))

# Use cURL to perform FTP upload. You can use any FTP tool to do this instead.

curl -T index.html -u ${creds[1]}:${creds[2]} ${creds[0]}/

# Copy the result of the following command into a browser to see the static HTML site.

echo http://$webappname.azurewebsites.net
```

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Demo

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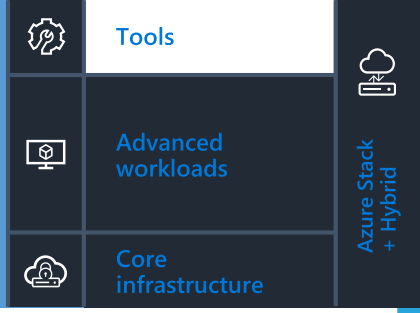
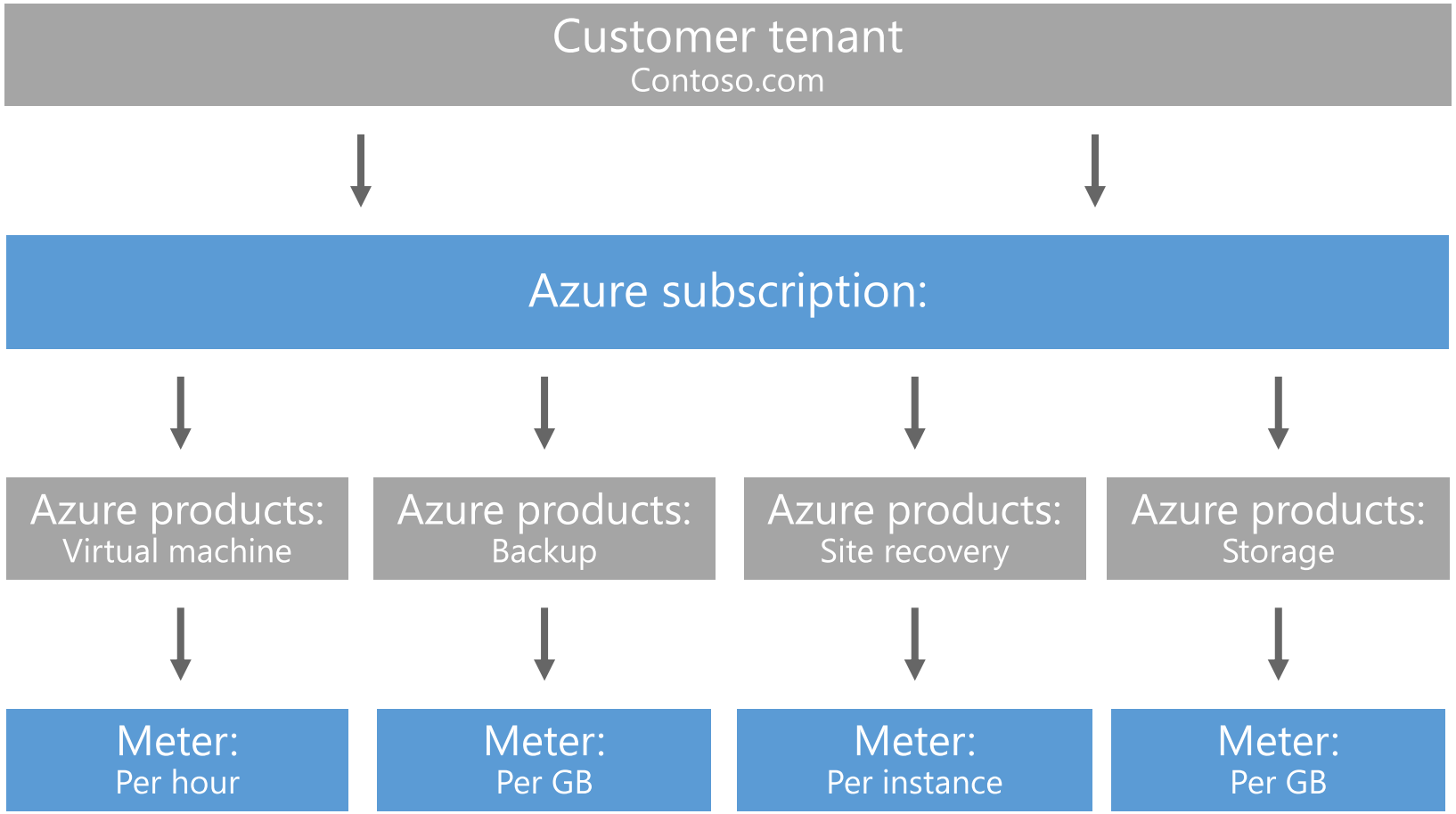
En especial el resto del mundo Open source



DevOps	Nagios	VAGRANT		GRUNT				Xamarin		
Management	CHEF	puppet labs	ANSIBLE	SALTSTACK			mist.io	libcloud		SCALR CLOUD MANAGEMENT
Applications		Joomla!	Drupal		APPRENDA					
App frameworks and tools	php	nodeJS		.JS	Ruby	IJ	eclipse			
Databases and middleware		redis	CLEARDB	cloudera	MySQL	mongoDB.		Couchbase		
Infrastructure			redhat	suse		bitnami	ORACLE LINUX	FreeBSD	docker	CloudFirst

Azure Services account structure



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Preguntas?

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Muchas Gracias

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