

Página Inicial do Azure

http://www.windowsazure.com



Learn what matters most for cloud security. Register for our complimentary webinar. 🕑

Never wait for servers or infrastructure again

Instantly provision Windows and Linux Virtual Machines, applications, and infrastructure within Microsoft-managed data centers around the



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Ferramentas de Gerenciamento

- Portal
 - <u>https://manage.windowsazure.com</u>
- Scripts:
 - Azure-cli (Windows, Linux, Mac):
 - <u>http://www.windowsazure.com/en-us/documentation/articles/xplat-cli</u>
 - Pré-requisitos: Instalação de <u>http://nodejs.org/download</u>
 - PowerShell (Windows)
 - <u>http://www.windowsazure.com/en-</u> us/documentation/articles/install-configure-powershell
 - Via Certificado ou Autenticação
- REST API

Portal – Página Inicial

Menu auxiliar



Portal - Settings

- Em 'Subscriptions', listar as subscrições em que somos administradores.
- Em 'Management Certificates', listar os certificados de gerenciamento (utilizado pelas APIs de azure-cli, powershell, etc).
- (*) Em 'Administrators', criar conta de coadministrador.
- (*) Em 'Affinity Groups', criar grupo de afinidade.
- Em 'Usage', é possível identificar uso dos recursos permitidos pela subscrição.

Portal - Settings - Administrators

- Na aba Administrators, no link Add.
- Email deve ser uma login microsoft.
- Vincular à nossa subscrição

ADD A CO-ADMINISTRATOR

Specify a co-administrator for subscriptions

Co-administrators can fully manage the services within a subscription. Enter a valid email address, and then select at least one subscription.

×

EMAIL ADDRESS



Portal - Settings – Affinity Groups

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- Na aba Affinity Groups, no link Add.
- Definir região.

CREATE AFFINITY GROUP

Specify affinity group details

NAME

aloc-ag

DESCRIPTION

Sistema Distribuído de Alocação

REGION

East Asia

East Asia

East US
North Central US
North Europe
Southeast Asia
West Europe
West US

Portal – Networks – Virtual Networks

Na aba Virtual Networks, no link New, Network Services, Virtual Network, Custom

Create.

/irtual	Network Details	5	CREATE A	VIRTUAL NETWORK	
NAME			DNS	Servers and VPN Connect	ivity
aloc-network		DNS SERV	vers 🔯	POINT-TO-SITE CONNECTIVITY PREVIEW	
		-0	ENTER	NAME IP ADDRESS	Configure a point-to-site VPN
		_		President President	SITE-TO-SITE CONNECTIVITY
					Configure a site-to-site VPN
	CREATE A VIRTUAL NETWO	RK			
	create a virtual networ Virtual Netwo	rk Address	Spaces	3	
	create a virtual networ Virtual Netwo address space	ak Drk Address starting ip	Spaces cidr (address count)	USABLE ADDRESS RANGE	
	CREATE A VIRTUAL NETWO Virtual Netwo Address space 172.16.0.0/12	ak Drk Address Starting IP 172.16.0.0	Spaces CIDR (ADDRESS COUNT) /12 (1048	USABLE ADDRESS RANGE 172.16.0.0 - 172.31.255.255	
	CREATE A VIRTUAL NETWO Virtual Netwo Address space 172.16.0.0/12 subnets	starting ip 172.16.0.0	Spaces cidr (Address count) /12 (1048	USABLE ADDRESS RANGE 172.16.0.0 - 172.31.255.255	

Portal – Storage

- "A storage account provides access to the Windows Azure Blob, Table, and Queue services within a geographic region"
- "A storage account created on or after June 8, 2012, can contain 200 TB of data"
- Até 20 contas de armazenamento (vide 'Settings', 'Usage')
- Em Storage, no link New, Data Services, Storage, Quick Create.

NEW			
Сомрите	DB SQL DATABASE	📕 QUICK CREATE	URL aloc 🛇
DATA SERVICES	STORAGE		.*.core.windows.net
APP SERVICES			aloc-ag
			REPLICATION
m STORE PREVIEW			Locally Redundant

Portal – Cloud Services

- "When you create an application and run it in Windows Azure, the code and configuration together are called a Windows Azure cloud service"
- "Cloud Services provides *Platform as a Service* (*PaaS*). This technology is designed to support applications that are scalable, reliable, and cheap to operate"



Portal – Cloud Services

- Até 20 serviços de nuvem (vide 'Settings', 'Usage')
- Em Cloud Services, no link New, Compute, Cloud Service, Quick Create.



- Até 32 cores (vide 'Settings', 'Usage')
- Em 'Virtual Machines', aba 'Virtual Machines Instances' no link New, Compute, Virtual Machine, From Gallery.

×



Escolher tipo de Imagem

CREATE A VIRTUAL MACHINE

Choose an Image

ALL MICROSOFT WINDOWS SERVER SHAREPOINT SQL SERVER

BIZTALK SERVER

UBUNTU

CENTOS

SUSE

ORACLE

MY IMAGES

MY DISKS

MSDN 💿

SUPPORTED



OpenLogic



OpenLogic

This distribution of Linux is based on CentOS version 6.5 and is provided by OpenLogic. It contains an installation of the Basic Server packages.

OS FAMILY	Linux
PUBLISHER	OpenLogic
LOCATIONS	East Asia;Southeast Asia;North Europe;West Europe;East US;West US

PRICING INFORMATION

Pricing varies based on the subscription you select to provision your virtual machine.



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Definir configurações da VM (nome, #cores, #memória, usuário e senha.

CREATE A VIRTUAL MACHINE

Virtual machine configuration

alocul		
SIZE		
Small (1 core, 1.75 (GB memory)	•
NEW USER NAME		
suporte		
AUTHENTICATION (?)	E SSH KEY FOR AUTHENTI	ICATION
	CONFIRM	



US

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OS FAMILY Linux PUBLISHER OpenLogic LOCATIONS East Asia;Southeast Asia;North Europe;West Europe;East US;West

PRICING INFORMATION

Pricing varies based on the subscription you select to provision your virtual machine.

 Definir configurações da VM, utilizando os recursos criados anteriormente (serviço em nuvem, rede virtual, conta de armazenamento)

CREATE A VIRTUAL MACHINE

Virtual machine configuration

CLOUD SERVICE 😨	
aloc	-
CLOUD SERVICE DNS NAME	
	.cloudapp.net
REGION/AFFINITY GROUP/VIRTUAL NETWORK	
aloc-network	•
VIRTUAL NETWORK SUBNETS	
Subnet-1(172.16.0.0/12)	•
STORAGE ACCOUNT	
aloc	~
AVAILABILITY SET 🔞	
(None)	•



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PRICING INFORMATION

Pricing varies based on the subscription you select to provision your virtual machine.

- Definir configurações da VM (portas que serão • acessíveis externamente)
- Ex: VNC, http, banco de dados, mx, etc

CREATE A VIRTUAL MACHINE

Virtual machine configuration

NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT	SopenLagic
SSH	тср	22	22	This dis
ENTER OR SELECT A VALUE]			CentOS
	-			OpenLo the Basi
				OS FAMIL Linux
				PUBLISHE OpenLog
				LOCATION East Asia; Europe;W US



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pvfs01 pvfs02 pvfs03 pvfs04

aloc01

 Acesso ssh à VM: em 'Virtual Machines', selecionar VM recém-criada, clicar na aba 'Dashboard'.

					STATUS
	autoscale status	PREVIEW			Running
	To start using autoscalin	ig, add virtual machines to	o an availability set		DNS NAME
	CONFIGURE AVAILABILI	TY SET 🏵			alocicioudappinet
	AUTOSCALE OPERATION	N LOGS 🏵			HOST NAME aloc01
	usage overview				PUBLIC VIRTUAL IP (VIP) ADDRESS 207.46.131.103
-01	ALOC01 OTHE	R ROLES AVAILABLE	E		INTERNAL IP ADDRESS 172.16.0.4
	1 CORE(S)				SSH DETAILS
	ALOC01			6 of 32 CORE(S)	SIZE
	disks				Small (1 core, 1.75 GB memory)
					SSH CERTIFICATE THUMBPRINT 27e4e776dce9267394b78deb77dbdcfa
	DISK	ТҮРЕ	HOST CACHE	VHD O	LOCATION
	aloc01-aloc01-0-201402	222 OS disk	Read/Write	http://aloc.blob.core.windc	aloc-ag (East Asia)

 Usuário pré-definido no momento da criação da VM possui privilégios de sudo.

root@aloc01:~

\$ ssh suporte@aloc.cloudapp.net

The authenticity of host 'aloc.cloudapp.net (207.46.131.103)' can't be established. RSA key fingerprint is 27:e4:e7:76:dc:e9:26:73:94:b7:8d:eb:77:db:dc:fa. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added 'aloc.cloudapp.net,207.46.131.103' (RSA) to the list of known hos suporte@aloc.cloudapp.net's password: [suporte@aloc01 ~]\$ sudo su -

- [D] ×

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

- #1) Respect the privacy of others.
- #2) Think before you type.
- #3) With great power comes great responsibility.

[sudo] password for suporte: [root@aloc01 ~]#

 Paras novas VMs linux criadas no mesmo serviço em nuvem, a porta ssh será uma definida automaticamente pelo Azure.

	E root@aloc02:~	
DNS NAME	\$ ssh suporte@aloc.cloudapp.net -p 63134	
aloc.cloudapp.net	<pre>suporte@aloc.cloudapp.net's password:</pre>	
	[suporte@aloc02 ~]\$	
HOST NAME	[suporte@aloc02 ~]\$ sudo su -	
aloc02	[sudo] password for suporte:	
0.002	[root@loc02 ~]#	
	Server = 168 63 129 16	
207.46.131.103	Address: 168.63.129.16#53	
207.40.151.105		
INTERNAL IP ADDRESS	Name: aloc01.aloc.h5.internal.cloudapp.net	
172 16 0 5	Address: 172.16.0.4	
172.10.0.3		
SSH DETAILS	[root@aloc02 ~]#	_
aloc cloudann net : 63134		
alocicloudappinet.05154		

Criar uma Imagem Linux

- <u>http://www.windowsazure.com/en-</u> <u>us/documentation/articles/virtual-machines-</u> <u>linux-capture-image</u>
- Passos para capturar imagem de VM Linux:
 - Efetuar desprovisionamento (via waagent)
 - Desligar VM Linux
 - Ir em 'Capture'

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1	VIITUAL MACHINES	10.00	aými –	II Support		Juipresent 655	nunga.	West US	
2	STORAGE ACCOUNTS								
0	SQL DATABASES								
(1)	NETWORKS								
+	NEW	>≮ cowect	S RESTART	0 Extrone	P ATTACH	DETACHDISK	CAPTU	RE CELET	τE

Upload de VM Linux

- <u>http://www.windowsazure.com/en-us/documentation/articles/virtual-machines-linux-create-upload-vhd</u>
- Alguns pré-requisitos:
 - Somente através do azure-cli ou Powershell (não há interface de upload pelo portal web)
 - VM Linux instalado em um disco vhd (formato Microsoft, Hyper-V)
 - Utilitário waagent instalado e NetworkManager removido
- Preparar VM (Linux suportados: CentOS 6.2+, Ubuntu 12.04+ e SLES 11 SP2+, demais distribuições não há distribuição oficial pela Microsoft)
- Efetuar upload do vhd
 - azure-cli: \$ azure vm create image -h
 - Powershell: C:\> Get-Help Add-AzureVhd

VM Depot

- <u>http://vmdepot.msopentech.com</u>
- \$ azure vm create debian01 -o vmdepot-2427-1-4 -a pvfs suporte 'Ufpr2014#' -ssh 55000
- Ou, em 'Virtual Machines', aba 'Images', link 'Browse VM Depot'

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