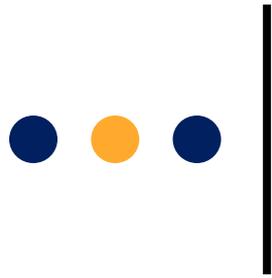




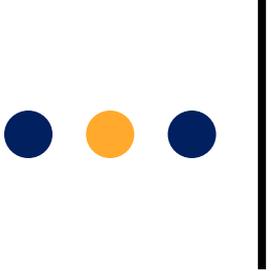
Curso Superior de Tecnologia em Redes de Computadores Projeto Integrador II

Seminário de Andamento

Gustavo Pich Tuchtenhagen
gustavopich@gmail.com



Comparativo de Plataformas de Virtualização de Servidores

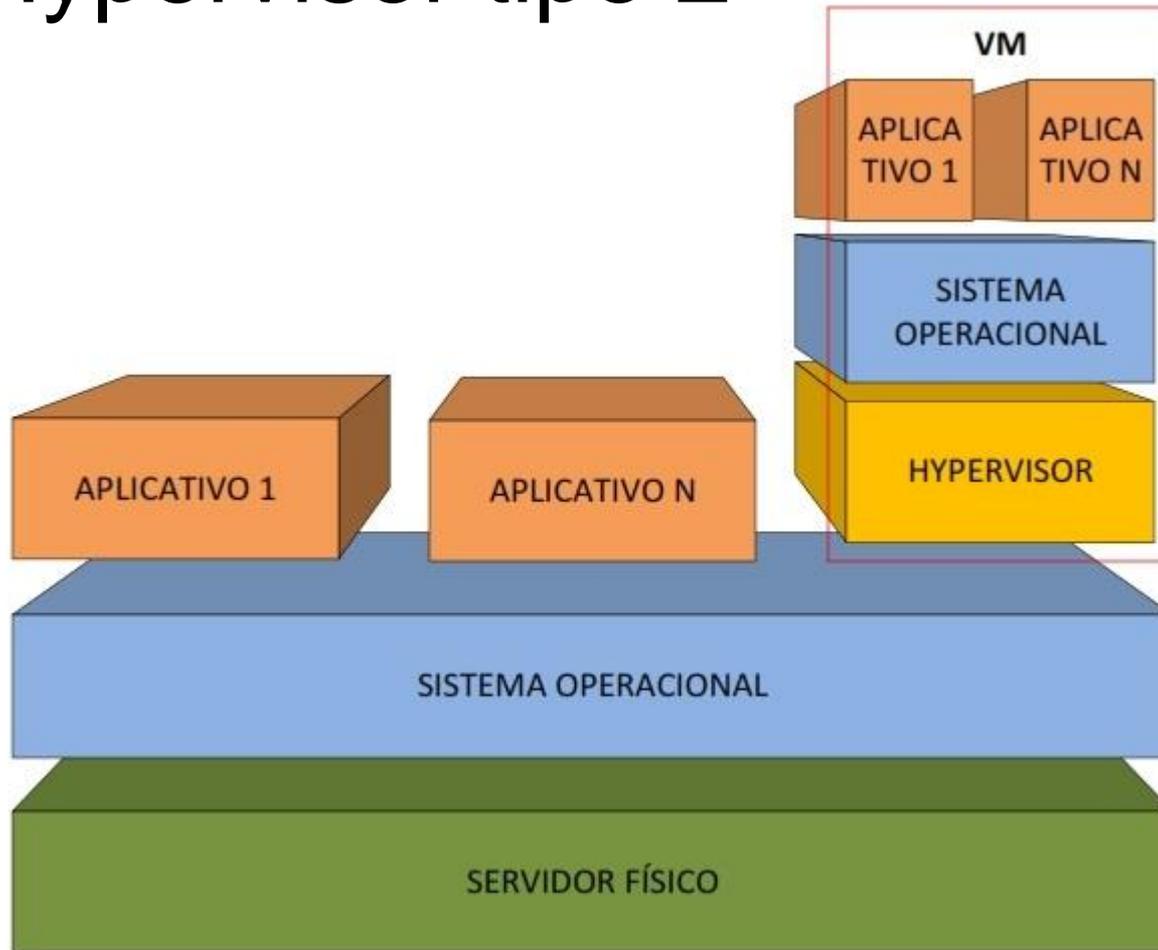


Sumário

- Introdução
 - Tipos de Hypervisores
 - Principais Plataformas
- Objetivos
 - Geral
 - Específicos
- Projeto
 - Situação atual
 - Próximos passos
- Cronograma
- Referências Bibliográficas

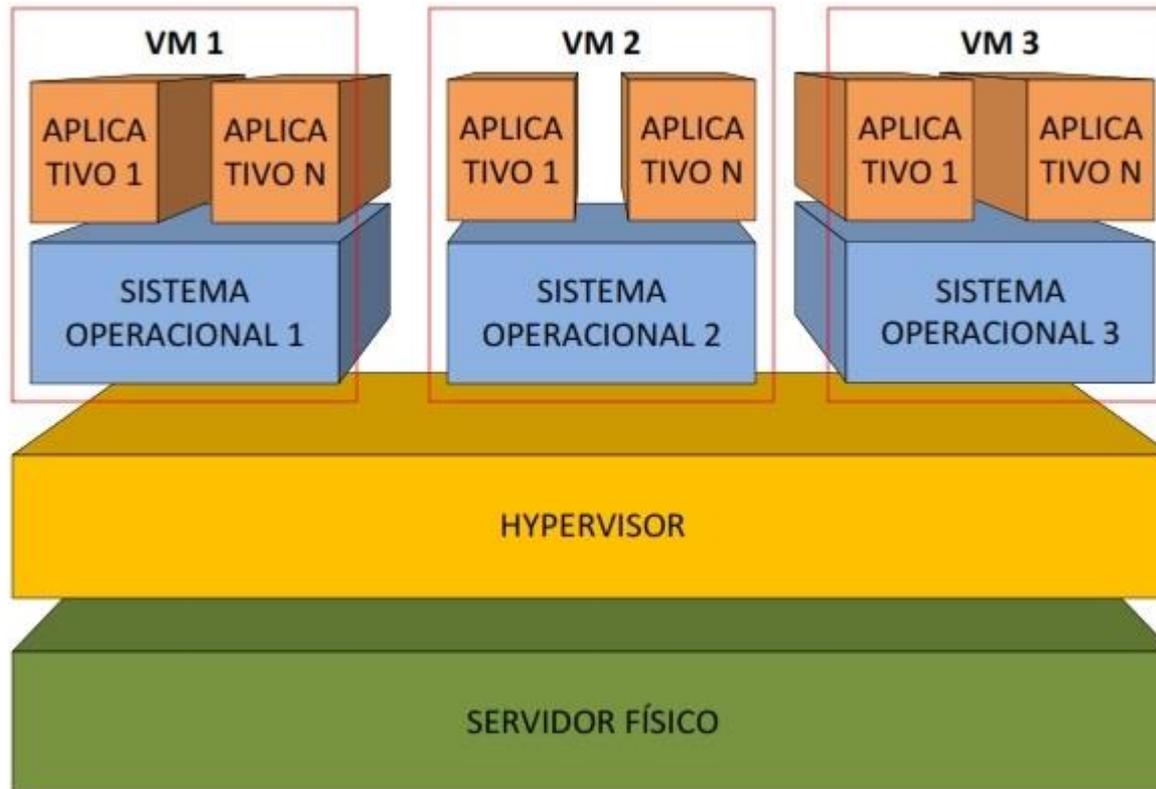
Introdução

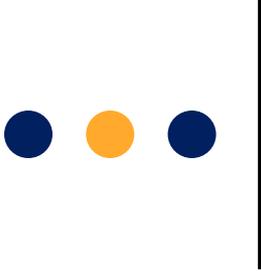
Hypervisor tipo 2



Introdução

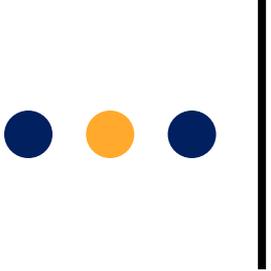
Hypervisor tipo 1





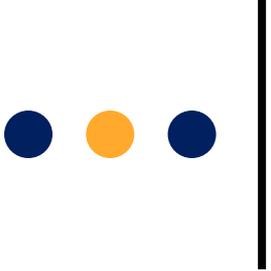
Principais Soluções de Virtualização





Objetivos

- **Objetivo Geral:** Implantar e comparar as principais plataformas de virtualização de servidores.
- **Objetivos Específicos:**
 - Pesquisar as características das plataformas de virtualização Citrix XenServer 6.2, Microsoft Hyper-V Server 2012 e VMware vSphere 5.5.
 - Implantar as plataformas escolhidas.
 - Realizar testes de desempenho.
 - Confrontar as características e os resultados obtidos.



Situação atual

- o Processador: Intel Core i5-760 8M Cache 2.8 GHz 4 Cores
- o Memória: 2 x 4GB DDR3 1333MHz Kingston
- o Placa-mãe: Asus P7P55D-E LX
- o Disco rígido: 3 x Samsung 500GB Sata II (HD502HI)

Citrix XenServer 6.2

```
XenServer 6.2                23:27:00                vmxenserver-gustavo
Configuration
-----
Customize System
Status Display
Network and Management Interface
Authentication
Virtual Machines
Disks and Storage Repositories
Resource Pool Configuration
Hardware and BIOS Information
Keyboard and Timezone
Remote Service Configuration
Backup, Restore and Update
Technical Support
Reboot or Shutdown
Local Command Shell

VMware, Inc.
VMware Virtual Platform

XenServer 6.2.0-70446c

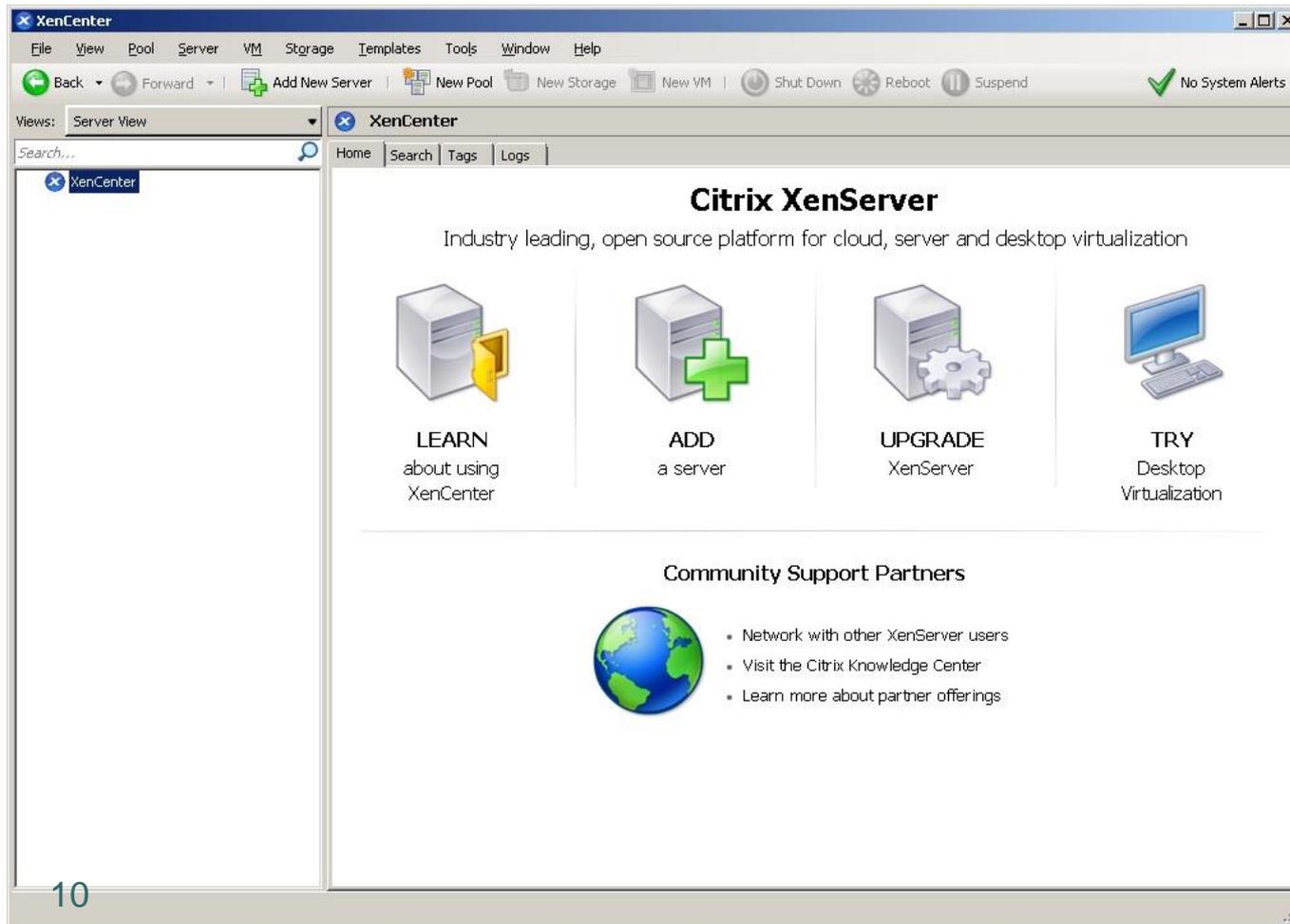
Management Network Parameters

Device           eth0
IP address       192.168.1.20
Netmask          255.255.255.0
Gateway          192.168.1.1

Press <Enter> to display the SSL key
fingerprints for this host

<Enter> OK <Up/Down> Select
<Enter> Fingerprints <F5> Refresh
```

Citrix XenCenter



The screenshot displays the Citrix XenCenter web interface. The top navigation bar includes menus for File, View, Pool, Server, VM, Storage, Templates, Tools, Window, and Help. Below this is a toolbar with icons for Back, Forward, Add New Server, New Pool, New Storage, New VM, Shut Down, Reboot, and Suspend. A status indicator on the right shows a green checkmark and the text "No System Alerts".

The main content area is titled "Citrix XenServer" and features the following text: "Industry leading, open source platform for cloud, server and desktop virtualization". Below this text are four action cards:

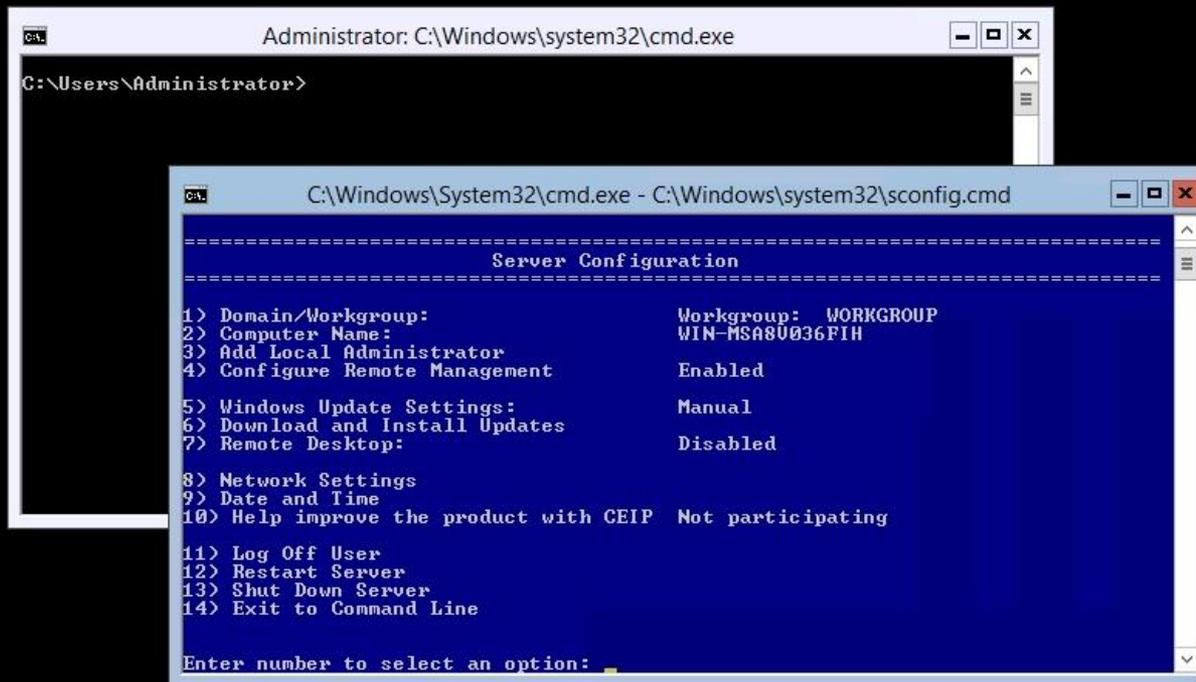
- LEARN** about using XenCenter (represented by a server icon with a yellow arrow)
- ADD** a server (represented by a server icon with a green plus sign)
- UPGRADE** XenServer (represented by a server icon with a gear)
- TRY** Desktop Virtualization (represented by a desktop computer icon)

Below these cards is a section titled "Community Support Partners" with a globe icon and a list of actions:

- Network with other XenServer users
- Visit the Citrix Knowledge Center
- Learn more about partner offerings

The interface also includes a search bar, a "Views: Server View" dropdown, and a "XenCenter" tab in the left sidebar. The page number "10" is visible in the bottom left corner.

Microsoft Hyper-V Server 2012



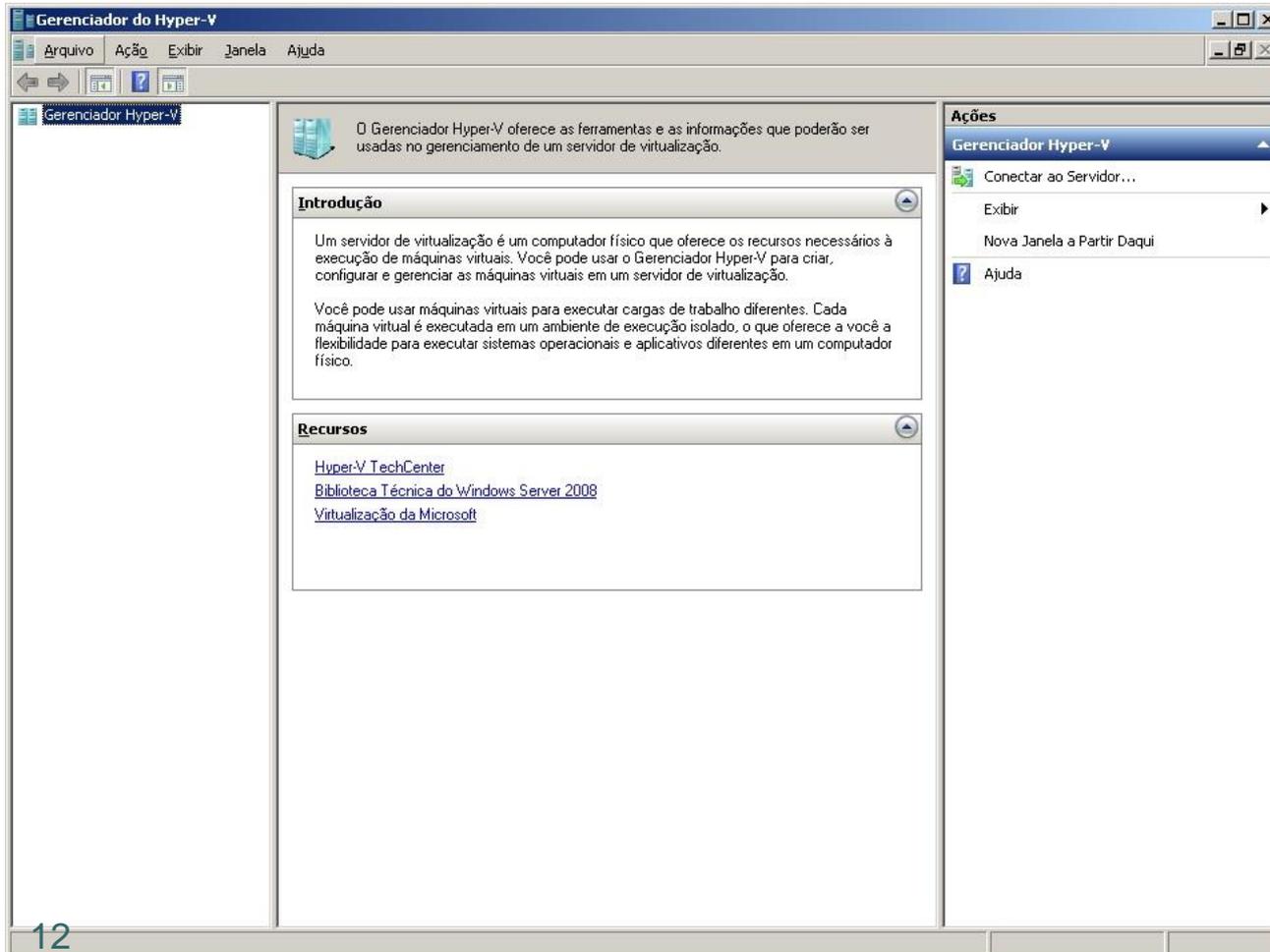
The screenshot shows two overlapping command prompt windows. The background window is titled "Administrator: C:\Windows\system32\cmd.exe" and shows the prompt "C:\Users\Administrator>". The foreground window is titled "C:\Windows\System32\cmd.exe - C:\Windows\system32\sconfig.cmd" and displays the "Server Configuration" utility. The utility shows a list of 14 options, with the first seven options having corresponding values displayed to their right.

```
Administrator: C:\Windows\system32\cmd.exe
C:\Users\Administrator>

C:\Windows\System32\cmd.exe - C:\Windows\system32\sconfig.cmd
-----
Server Configuration
-----
1) Domain/Workgroup:           Workgroup: WORKGROUP
2) Computer Name:             WIN-MSA8U036FIH
3) Add Local Administrator
4) Configure Remote Management Enabled
5) Windows Update Settings:   Manual
6) Download and Install Updates
7) Remote Desktop:           Disabled
8) Network Settings
9) Date and Time
10) Help improve the product with CEIP Not participating
11) Log Off User
12) Restart Server
13) Shut Down Server
14) Exit to Command Line

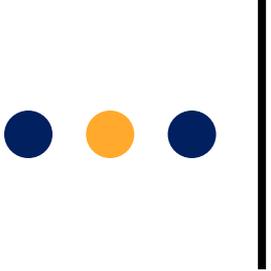
Enter number to select an option: _
```

Gerenciador Hyper-V



VMware vSphere Client





Próximos Passos

- o Implantar o VMware vSphere
- o Adicionar as VMs as plataformas
- o Realizar testes de desempenho
- o Confrontar os resultados
- o Documentar o Projeto



Cronograma

	Março		Abril				Maio				Junho				Julho			
Levantamento bibliográfico			X	X														
Pesquisar características				X	X	X	X											
Implantar								X	X	X	X							
Testar desempenho												X	X	X	X			
Confrontar resultados														X	X	X		
Documentar							X				X				X	X	X	



Referências Bibliográficas

- o Veras, Manoel. Virtualização: componente central do Datacenter. 1ª Edição. Rio de Janeiro : Brasport, 2011. 333 p. ISBN 978-85-7452-467-2
- o Mathews, Jeanna N.. Executando o Xen Um Guia Prático para a Arte da Virtualização. 1ª Edição. Rio de Janeiro : Alta Books, 2009. 584 p. ISBN 978-85-7608-317-7
- o Viana, Eliseu Ribeiro Cherene. Virtualização de Servidores Linux Sistemas de Armazenamento Virtual. 2ª Edição. Rio de Janeiro: Editora Ciência Moderna Ltda., 2012. 209 p. ISBN 978-85-399-0220-0



Curso Superior de Tecnologia em Redes de Computadores Projeto Integrador II

Seminário de Andamento

Gustavo Pich Tuchtenhagen
gustavopich@gmail.com