

# **Instalação e Configuração do Windows Server 2012**

**Disciplina:** Administração e Segurança de Sistemas de Computadores

**Curso:** Licenciatura em Engenharia Informática

**Docentes:** Doutor Eng. Lourino Chemane, Engra. Ivone Cipriano e eng. Délcio Chadreca  
DEEL, Faculdade de Engenharia, UEM

# Agenda

- *Lightweight Directory Access Protocol* (LDAP)
- Instalação do Sistema Operativo
- Atribuição da Senha do Administrador
- Configurações Iniciais da Máquina
  - Alteração do Nome do Servidor
  - Configuração do Endereço IP
- Verificação das Configurações efectuadas
- Exercícios

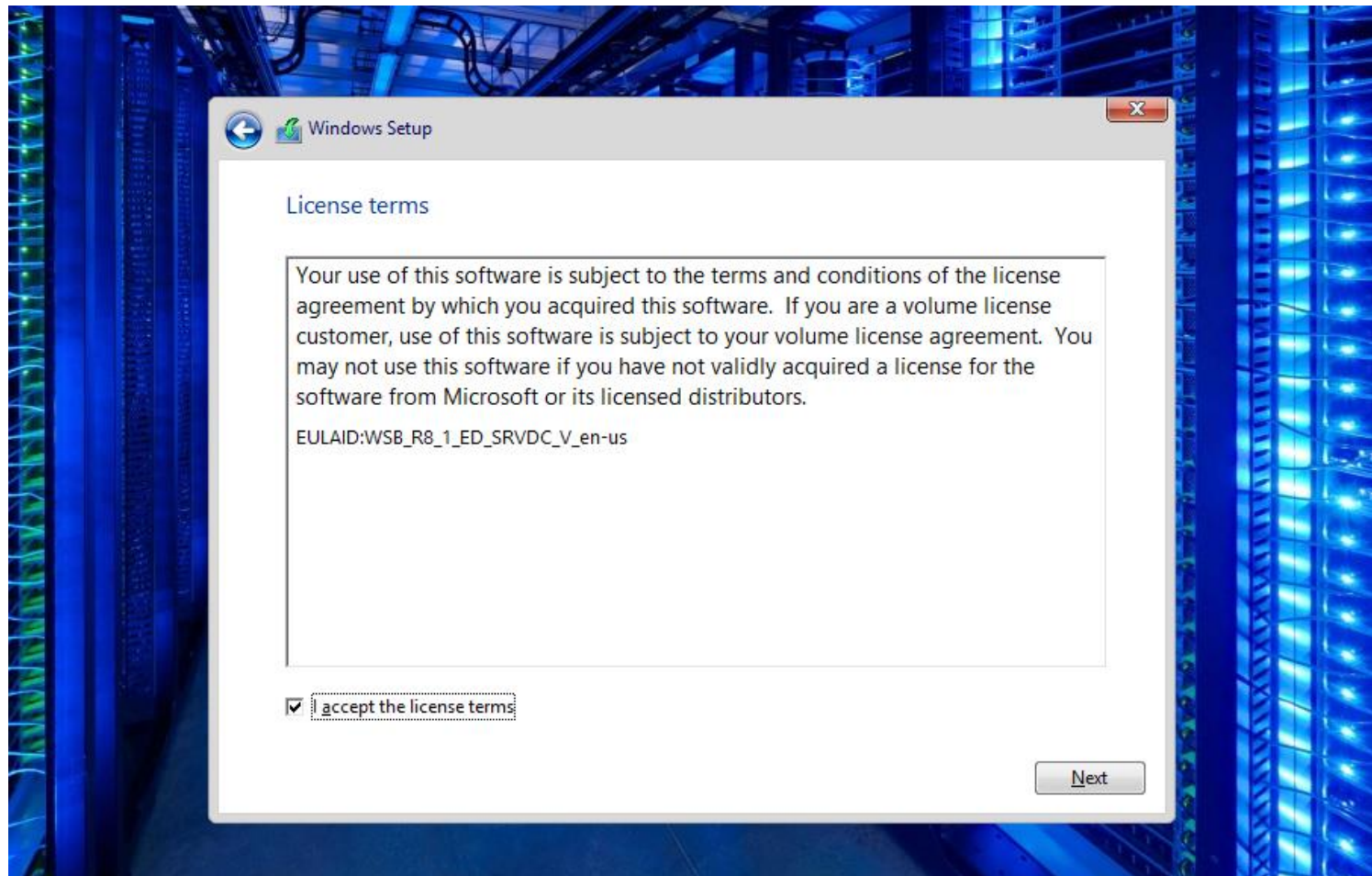
# Lightweight Directory Access Protocol (LDAP)

- LDAP é um protocolo resultante de um outro, mais complexo, especificado a norma X.500/ISO-9594, para o acesso a diretório X.500, onde é possível armazenar informação relativa a diversos tipos de objetos (pessoas, organizações, serviços etc.) que pode ser partilhada por múltiplas aplicações.
- O LDAP é um protocolo para acesso a uma entidade fornecedora de serviços de diretório que se designa por *Directory Server Agent* (DSA). Entre os DAS's com maior divulgação, podem ser referidos o *OpenLDAP*, o Microsoft Active Directory, o Samba *OneDir* ou o Novell E-Directory entre outros. O LDAP define, também, um modelo de dados hierárquico, orientado para objetos e muito flexível.
- LDAP, é um protocolo para acesso a serviços de diretório e não é uma base de dados e nem mesmo um diretório.

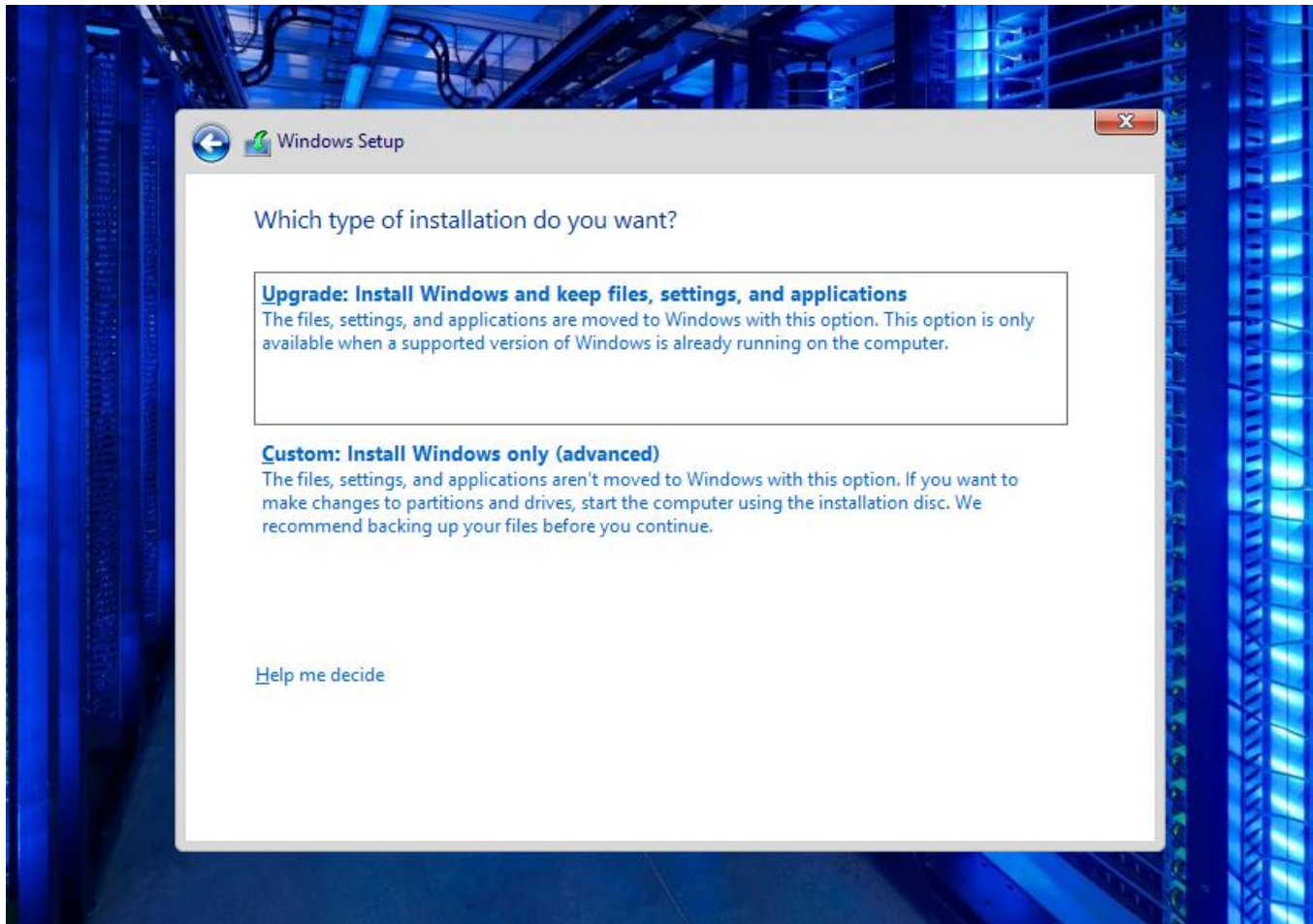
# Lightweight Directory Access Protocol (LDAP)

- O LDAP contém modelo que representam os serviços disponibilizados por um servidor na perspectiva do cliente.
- Modelo de Informação: Define a estrutura de dados armazenada no diretório;
- Modelo de Nomenclatura: Descreve como se identificam as entradas de informação e a informação no diretório;
- Modelo Funcional: Identifica as operações que podem ser efetuadas sobre o diretório
- Modelo de Segurança: define os mecanismos para autenticação de clientes e controlo de acesso a informação.

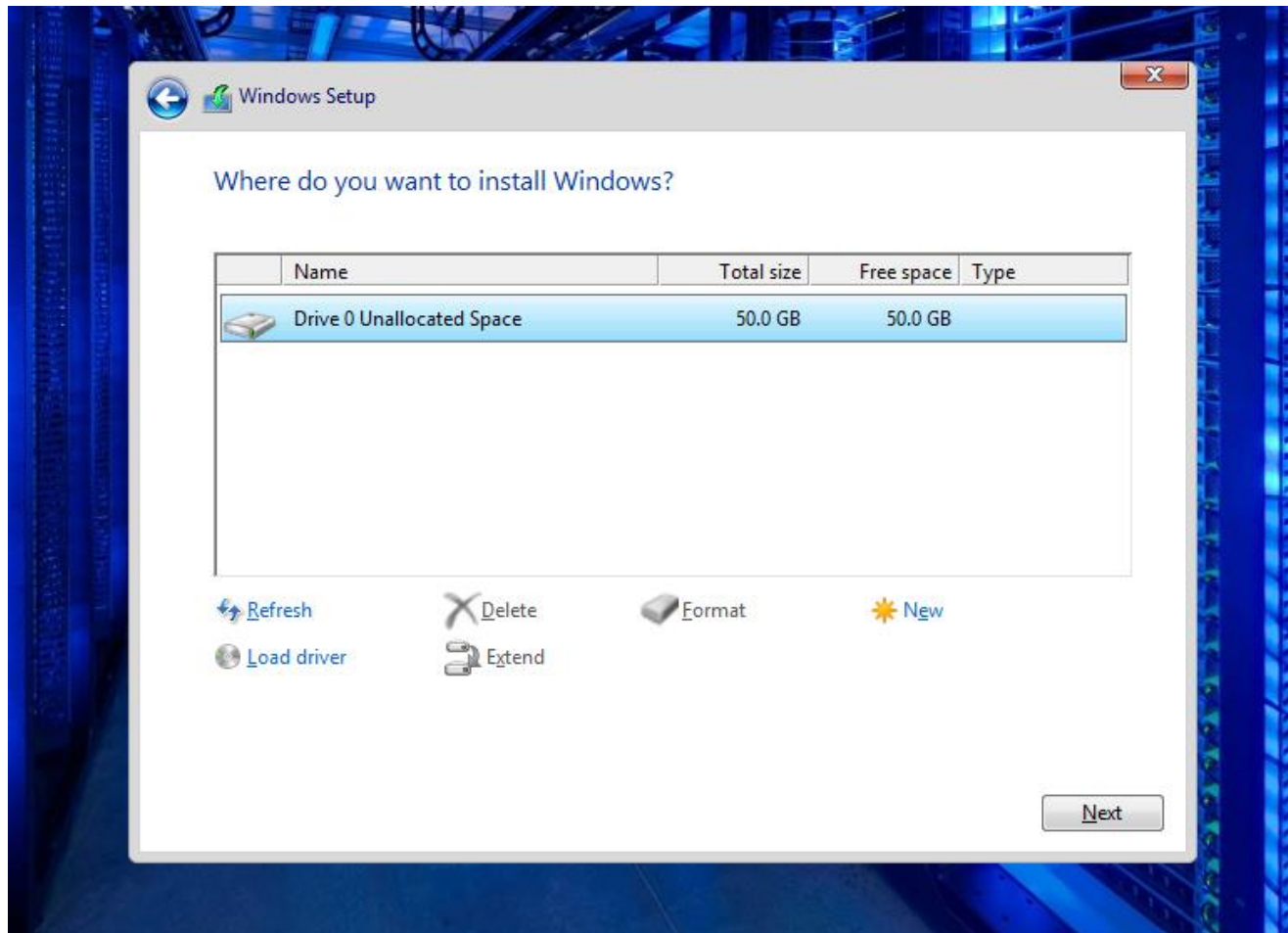
# Instalação do Sistema



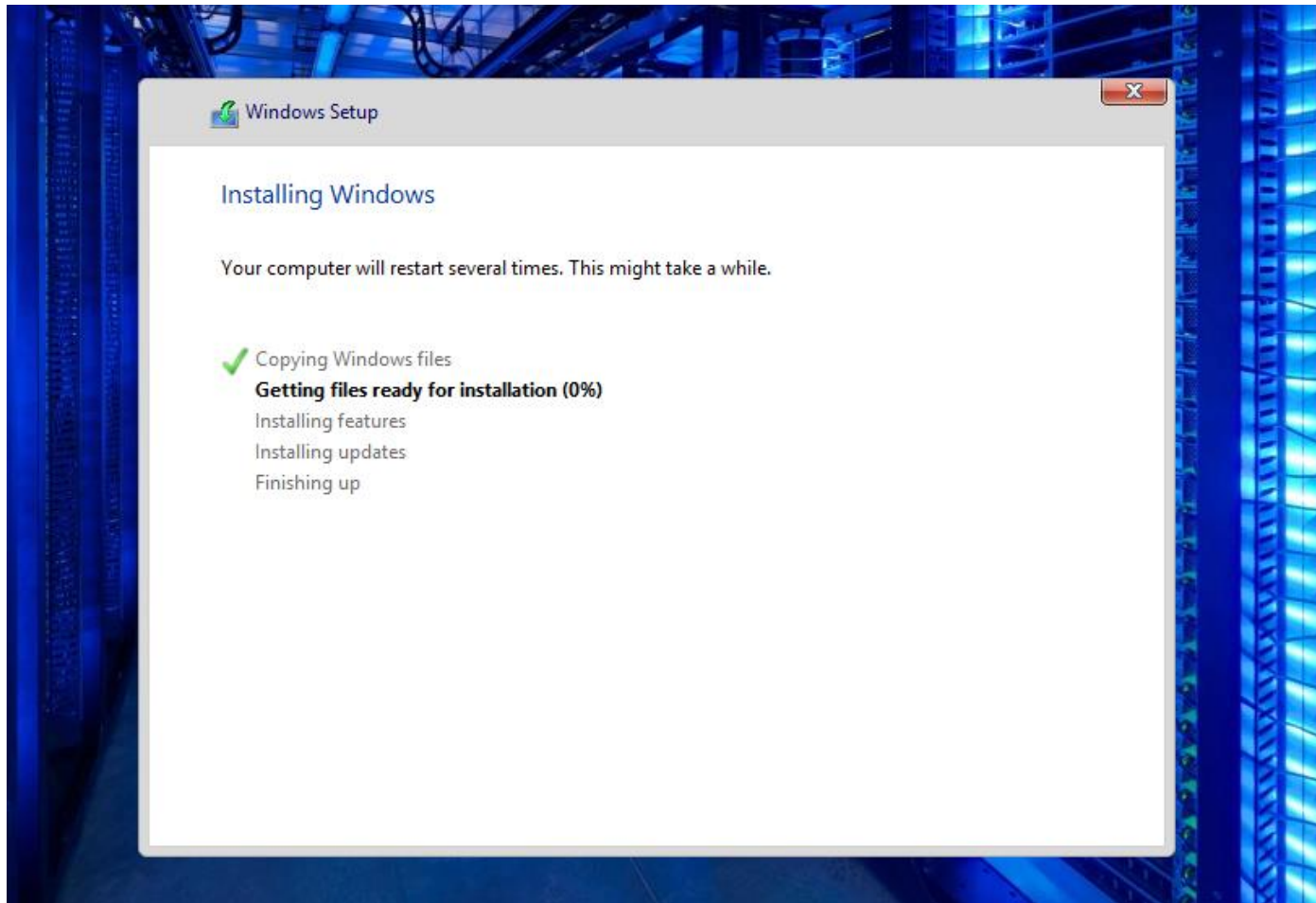
# Actualização ou Instalação Inicial



# Escolha do HDD a ser instalado o SO

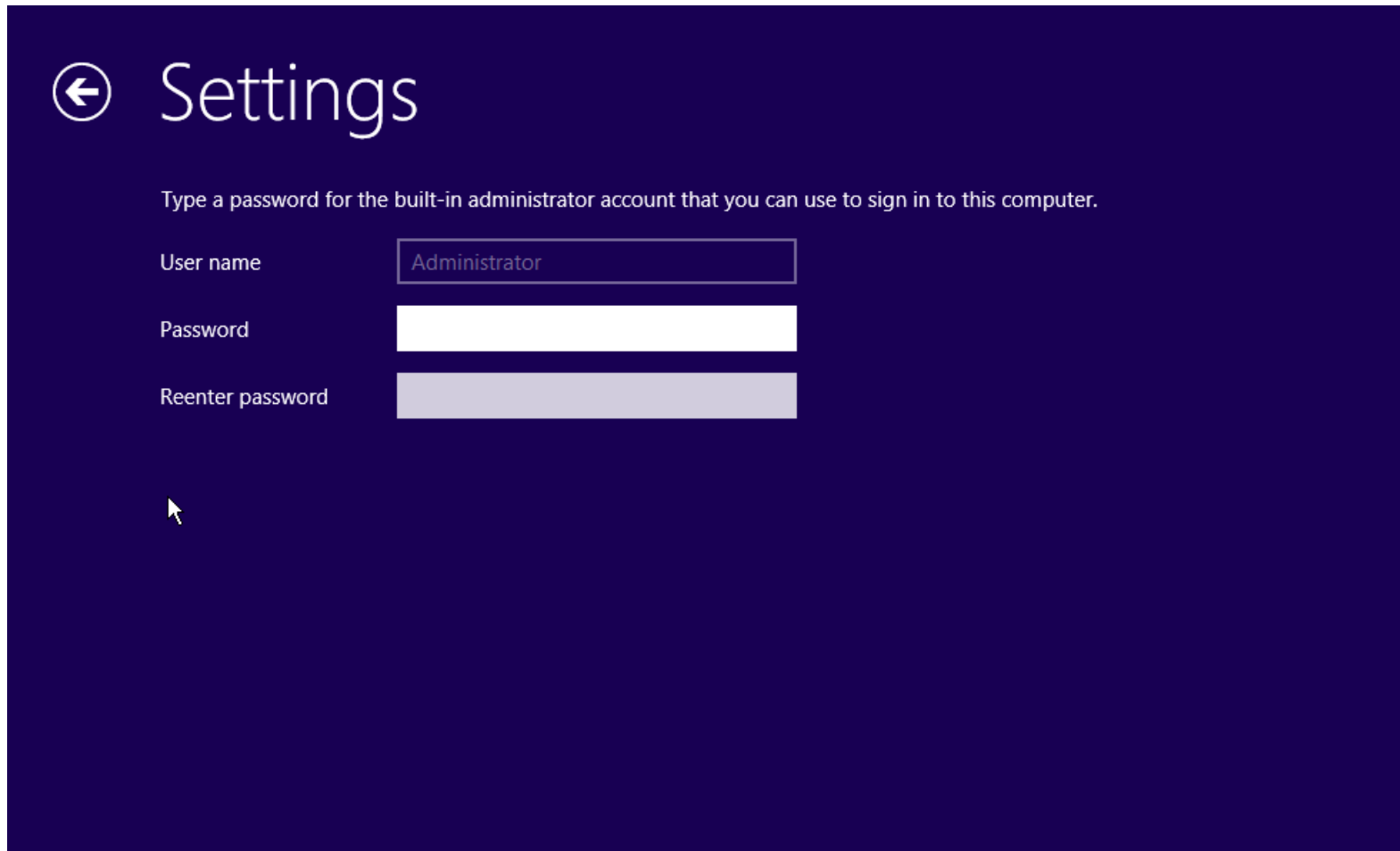


# Instalação do Sistema em Processo





# Atribuição da Senha do Administrador



The image shows a Windows Settings window with a dark blue background. At the top left is a back arrow icon in a circle, followed by the word "Settings" in white. Below this, a white instruction text reads: "Type a password for the built-in administrator account that you can use to sign in to this computer." There are three input fields: "User name" with the text "Administrator", "Password" (empty), and "Reenter password" (empty). A mouse cursor is visible near the bottom left of the window.

⬅ Settings

Type a password for the built-in administrator account that you can use to sign in to this computer.

User name

Password

Reenter password

# Dashboard do SO

The screenshot displays the Windows Server Manager interface. On the left is a navigation pane with 'Dashboard' selected. The main area is titled 'WELCOME TO SERVER MANAGER'. It features a 'QUICK START' section with a numbered list of five tasks: 1. Configure this local server, 2. Add roles and features, 3. Add other servers to manage, 4. Create a server group, and 5. Connect this server to cloud services. Below this is the 'ROLES AND SERVER GROUPS' section, which shows a summary of 'Roles: 1 | Server groups: 1 | Servers total: 1'. It contains two columns of server information. The first column is for 'File and Storage Services' and the second is for 'Local Server'. Both columns list 'Manageability' with a green up arrow icon, followed by 'Events', 'Performance', and 'BPA results'.

WELCOME TO SERVER MANAGER	
<b>QUICK START</b>	<b>1</b> Configure this local server
	<b>2</b> Add roles and features
	<b>3</b> Add other servers to manage
	<b>4</b> Create a server group
	<b>5</b> Connect this server to cloud services
<b>ROLES AND SERVER GROUPS</b> Roles: 1   Server groups: 1   Servers total: 1	
<b>File and Storage Services</b> 1	<b>Local Server</b> 1
Manageability	Manageability
Events	Events
Performance	Services
BPA results	Performance
	BPA results

# Configurações Iniciais

The screenshot displays the Windows Server 2012 R2 interface. On the left, a navigation pane shows 'Local Server' selected. The main area is divided into two sections: 'PROPERTIES' and 'EVENTS'.

**PROPERTIES**  
For WIN-4E6328NMP03

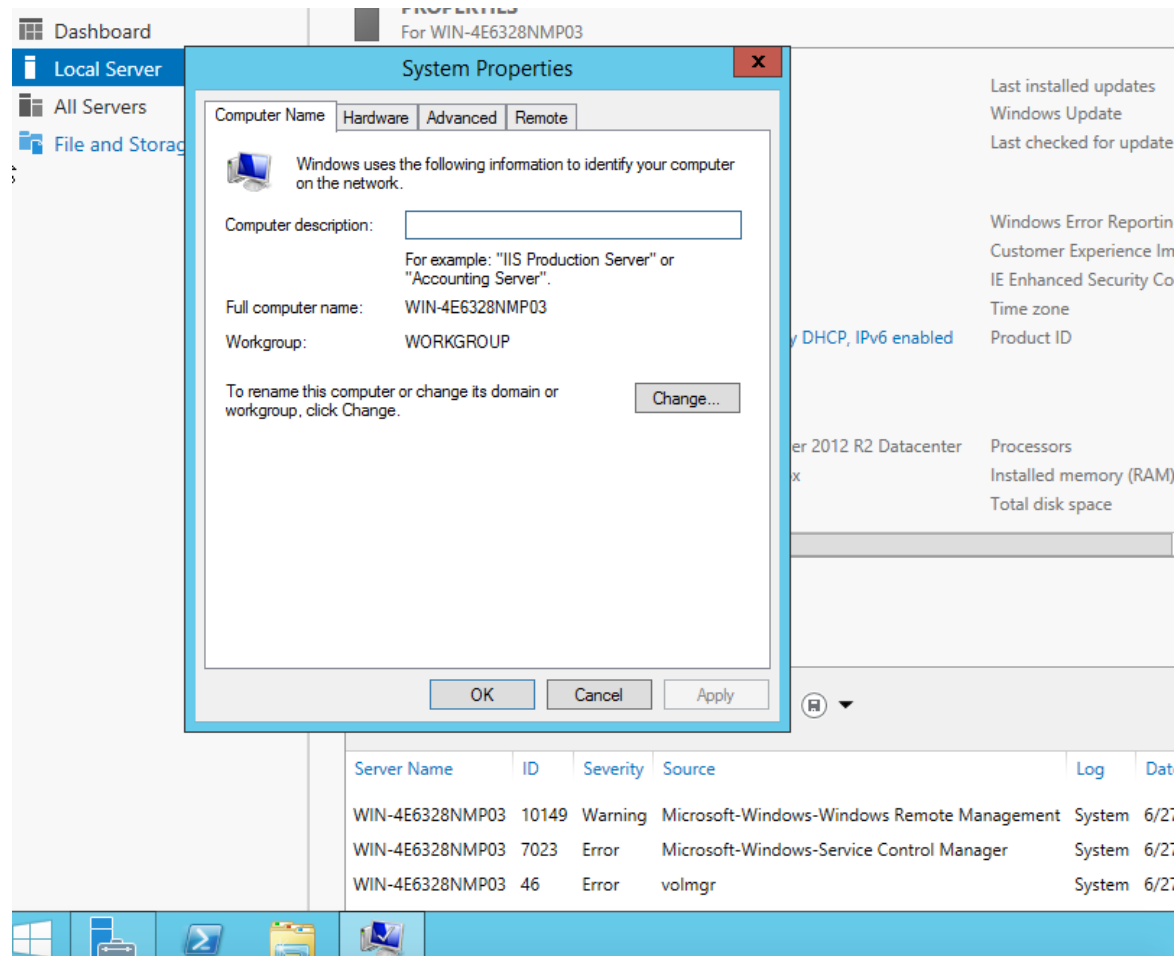
Property	Value	Property	Value
Computer name	WIN-4E6328NMP03	Last installed updates	Never
Workgroup	WORKGROUP	Windows Update	Not conf
		Last checked for updates	Never
Windows Firewall	Public: On	Windows Error Reporting	Off
Remote management	Enabled	Customer Experience Improvement Program	Not part
Remote Desktop	Disabled	IE Enhanced Security Configuration	On
NIC Teaming	Disabled	Time zone	(UTC-08:
Ethernet	IPv4 address assigned by DHCP, IPv6 enabled	Product ID	Not activ
Operating system version	Microsoft Windows Server 2012 R2 Datacenter	Processors	Intel(R) C
Hardware information	innotek GmbH VirtualBox	Installed memory (RAM)	0 GB
		Total disk space	49.66 GB

**EVENTS**  
All events | 3 total

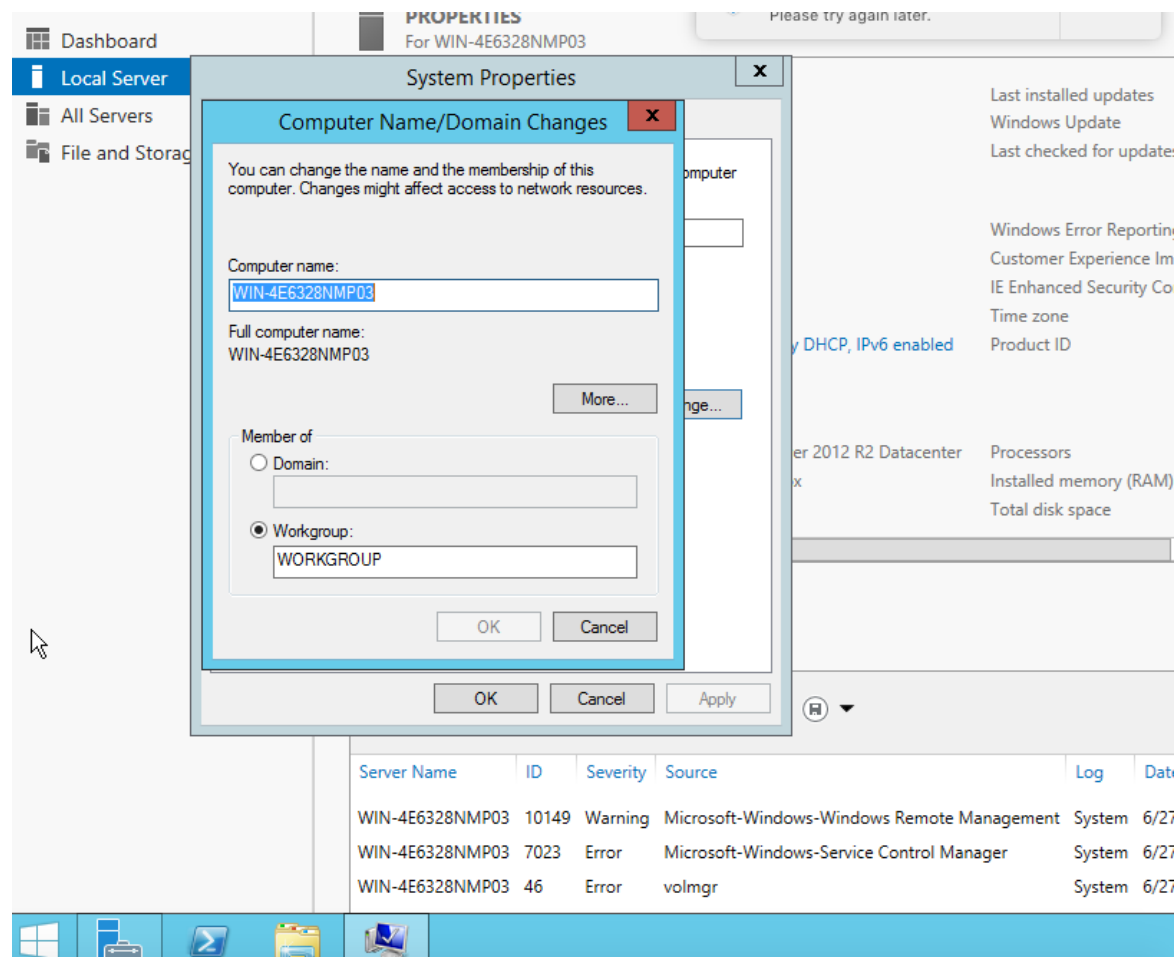
Server Name	ID	Severity	Source	Log	Date and Time
WIN-4E6328NMP03	10149	Warning	Microsoft-Windows-Windows Remote Management	System	6/27/2016 10:59:52 AM
WIN-4E6328NMP03	7023	Error	Microsoft-Windows-Service Control Manager	System	6/27/2016 10:56:36 AM
WIN-4E6328NMP03	46	Error	volmgr	System	6/27/2016 10:55:03 AM

The taskbar at the bottom shows the Windows Start button, several application icons, and the system clock indicating 12:12 PM on 6/27/2016.

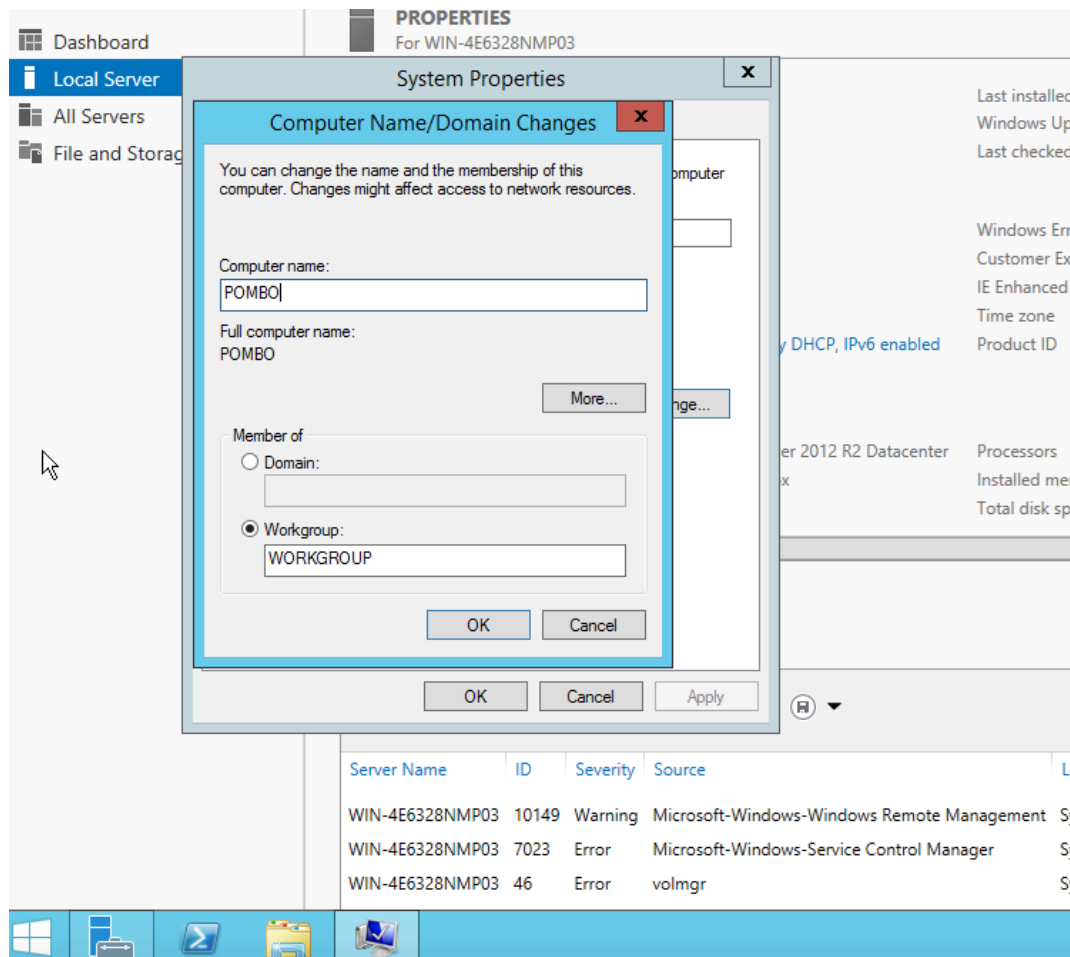
# Alteração do Nome do Servidor



# Alteração do Nome do Servidor



# Alteração do Nome do Servidor



# Verificação do NetBios

**PROPERTIES**  
For WIN-4E6328NMP03

**System Properties**

**Computer Name/Domain Changes**

**DNS Suffix and NetBIOS Computer Name**

Primary DNS suffix of this computer:

☒ Change primary DNS suffix when domain membership changes

NetBIOS computer name:

This name is used for interoperability with older computers and services.

OK Cancel

Workgroup:

OK Cancel

Close Cancel Apply

Server Name ID Severity Source Log

WIN-4E6328NMP03	8198	Error	Microsoft-Windows-Security-SPP	Application 6,
WIN-4E6328NMP03	8200	Error	Microsoft-Windows-Security-SPP	Application 6,
WIN-4E6328NMP03	1014	Error	Microsoft-Windows-Security-SPP	Application 6,

# Reinicialização do SO

The screenshot shows the Windows Server Management console. On the left is a navigation pane with 'Local Server' selected. The main area displays the 'PROPERTIES' for the server 'WIN-4E6328NMP03'. A 'Microsoft Windows' dialog box is overlaid in the center, stating: 'You must restart your computer to apply these changes. Before restarting, save any open files and close all programs.' The dialog has 'Restart Now' and 'Restart Later' buttons. The background properties window shows various system details like computer name, workgroup, updates, and hardware information. At the bottom, an 'EVENTS' section shows a list of events, with the first event being an error from 'Microsoft-Windows-Security-SPP'.

**Navigation Pane:**

- Dashboard
- Local Server**
- All Servers
- File and Storage Services ▸

**PROPERTIES For WIN-4E6328NMP03**

Computer name	WIN-4E6328NMP03	Last installed updates
Workgroup	WORKGROUP	Windows Update
		Last checked for updates
Windows Firewall		Windows Error Reporting
Remote management		Customer Experience Improvement Program
Remote Desktop		Internet Explorer Enhanced Security Configuration
NIC Teaming		Time zone
Ethernet		Product ID
Operating system		Processors
Hardware information	innotek GmbH VirtualBox	Installed memory (RAM)
		Total disk space

**Microsoft Windows**

You must restart your computer to apply these changes

Before restarting, save any open files and close all programs.

**EVENTS**

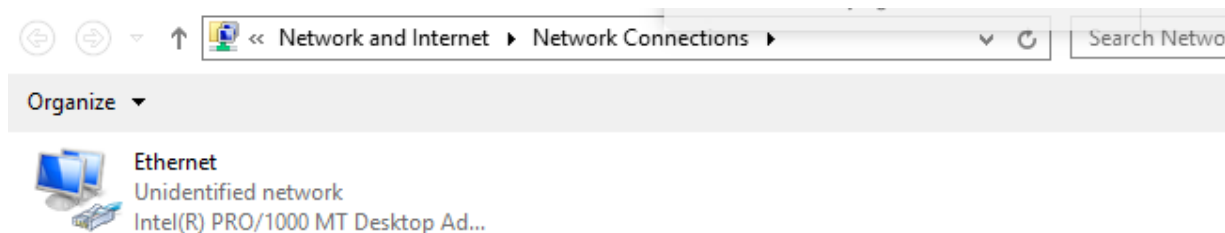
All events | 13 total

Filter [ ] [ ] [ ]

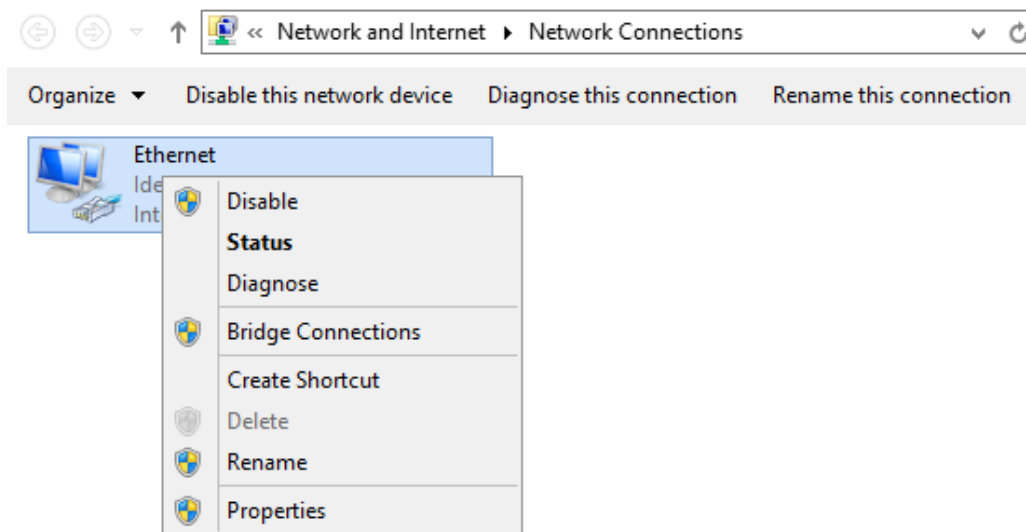
Server Name	ID	Severity	Source	Log	D
WIN-4E6328NMP03	8198	Error	Microsoft-Windows-Security-SPP	Application	6/



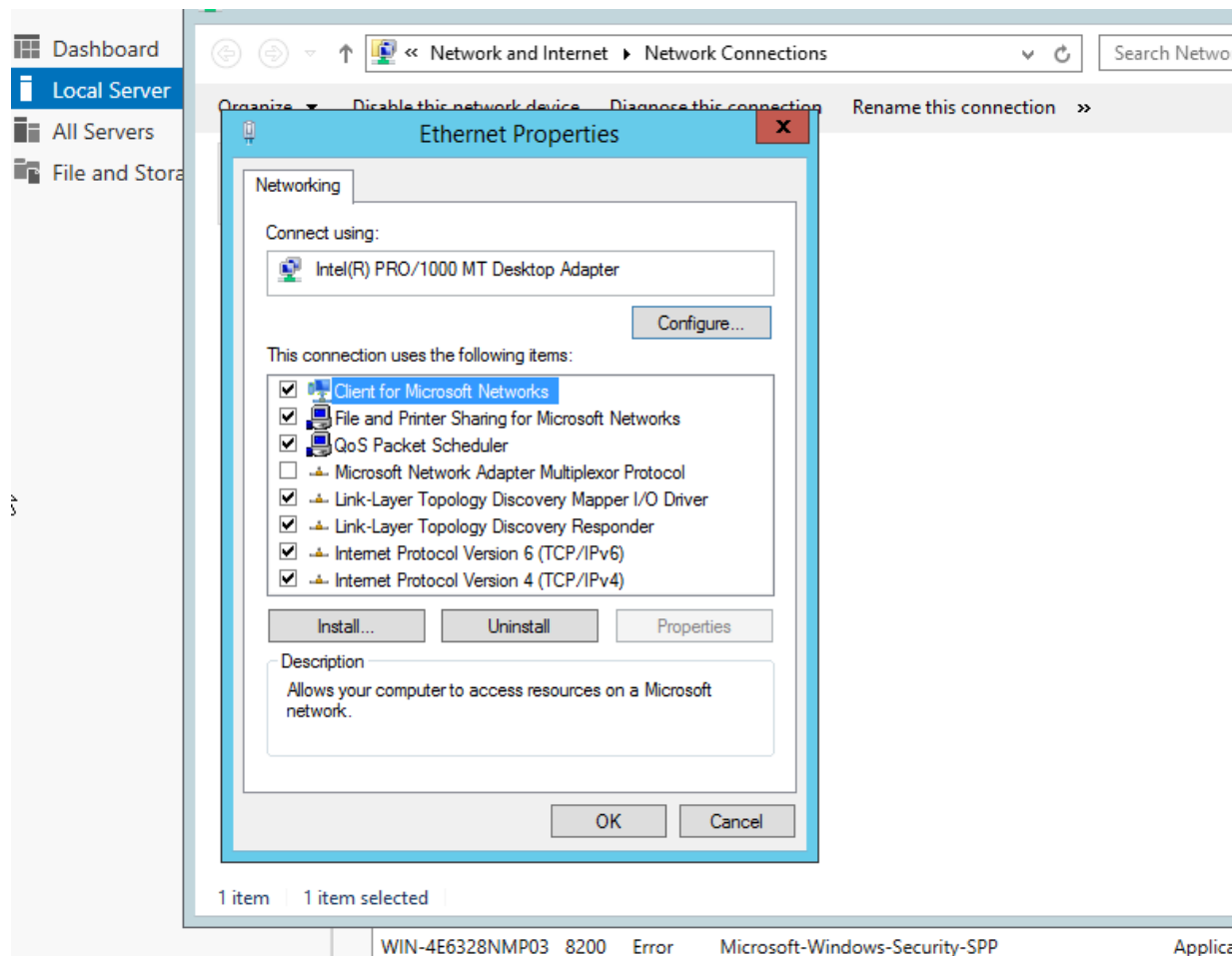
# Configuração da Placa de Rede



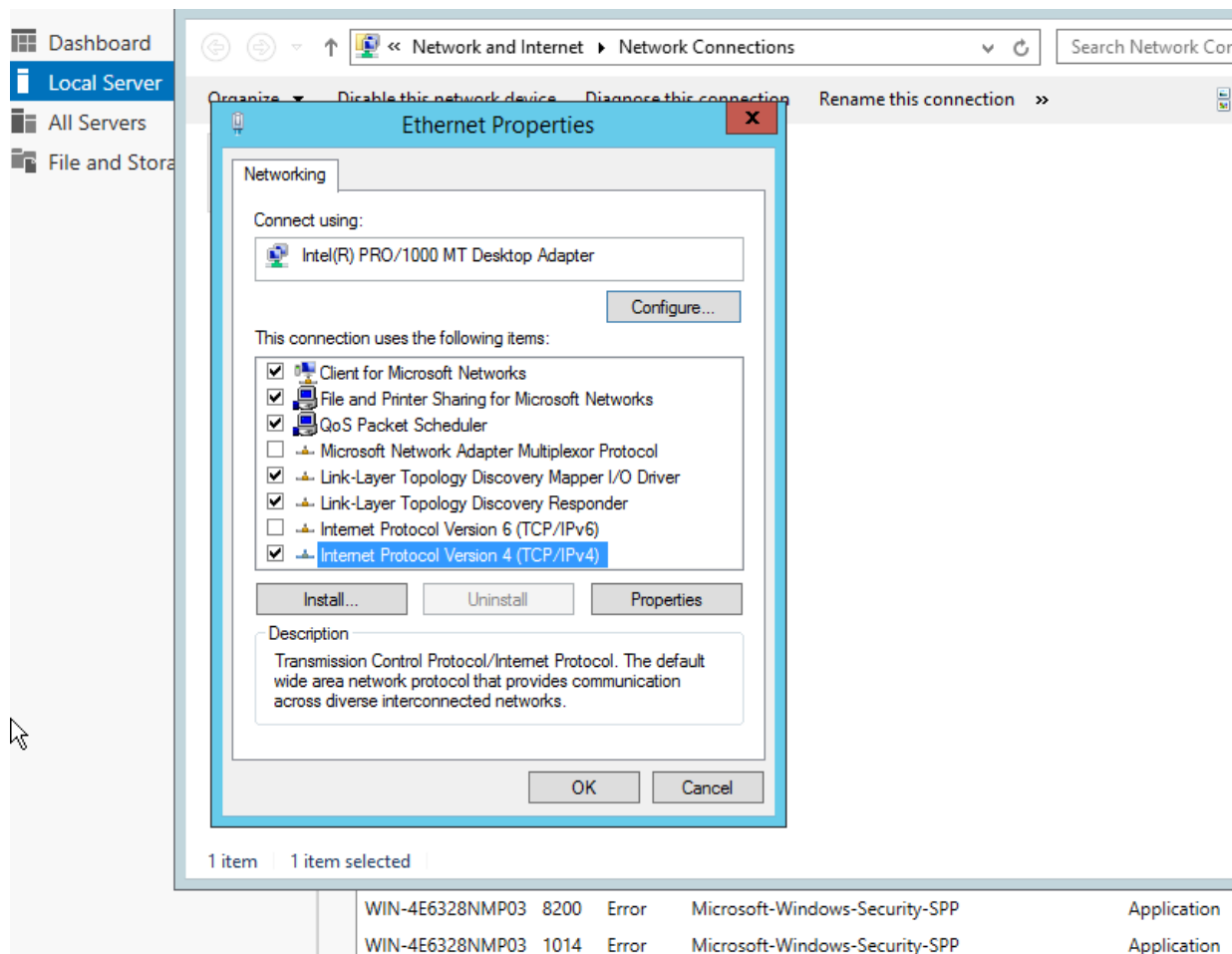
# Configuração da Placa de Rede



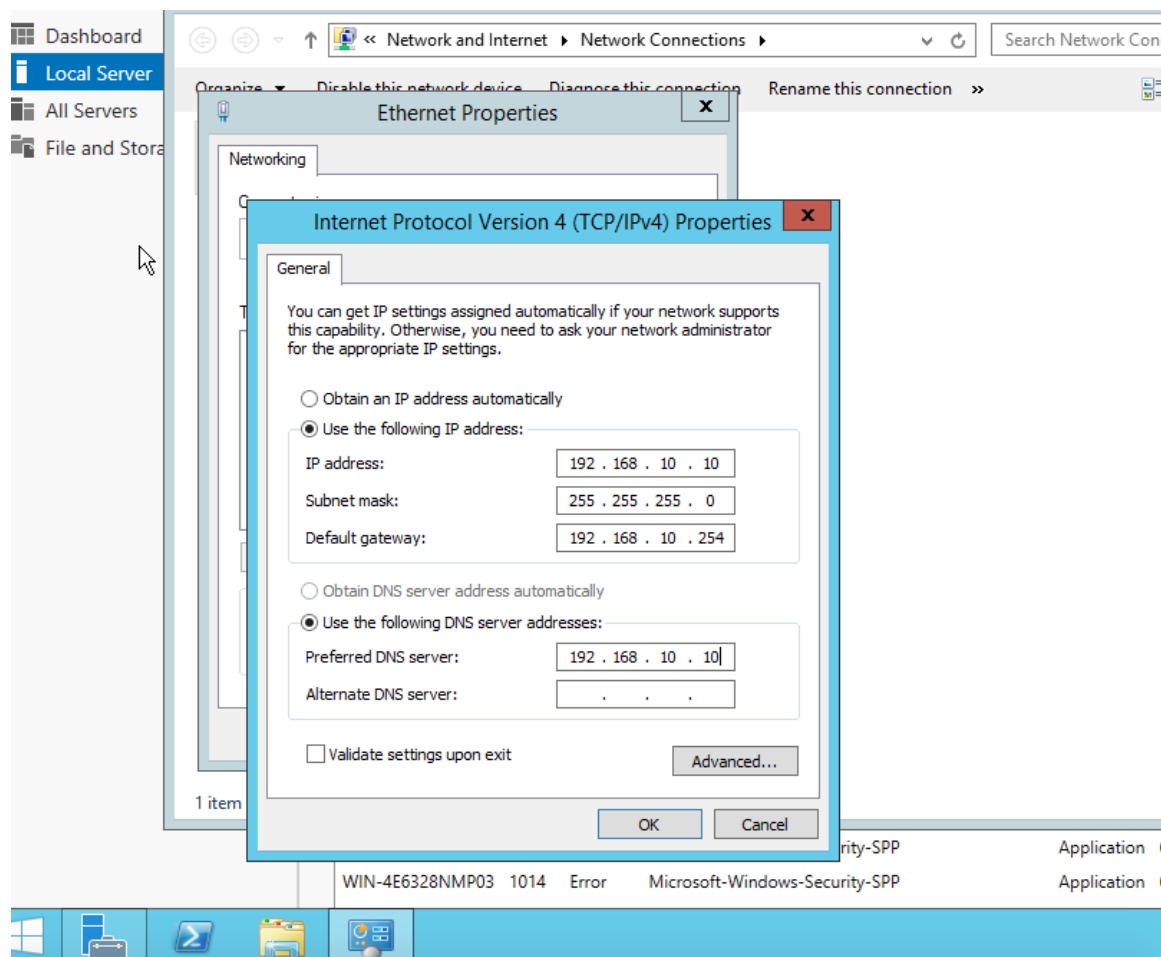
# Configuração da Placa de Rede



# Configuração da Placa de Rede



# Configuração da Placa de Rede



# Comando dir/ls

```
Administrator: Windows PowerShell

Directory: C:\Users\Administrator

Mode                LastWriteTime         Length Name
----                -
d-r--            6/27/2016 12:09 PM             Contacts
d-r--            6/27/2016 12:09 PM             Desktop
d-r--            6/27/2016 12:09 PM             Documents
d-r--            6/27/2016 12:09 PM             Downloads
d-r--            6/27/2016 12:09 PM             Favorites
d-r--            6/27/2016 12:09 PM             Links
d-r--            6/27/2016 12:09 PM             Music
d-r--            6/27/2016 12:09 PM             Pictures
d-r--            6/27/2016 12:09 PM             Saved Games
d-r--            6/27/2016 12:09 PM             Searches
d-r--            6/27/2016 12:09 PM             Videos

PS C:\Users\Administrator> ls

Directory: C:\Users\Administrator

Mode                LastWriteTime         Length Name
----                -
d-r--            6/27/2016 12:09 PM             Contacts
d-r--            6/27/2016 12:09 PM             Desktop
d-r--            6/27/2016 12:09 PM             Documents
d-r--            6/27/2016 12:09 PM             Downloads
d-r--            6/27/2016 12:09 PM             Favorites
d-r--            6/27/2016 12:09 PM             Links
d-r--            6/27/2016 12:09 PM             Music
d-r--            6/27/2016 12:09 PM             Pictures
d-r--            6/27/2016 12:09 PM             Saved Games
d-r--            6/27/2016 12:09 PM             Searches
d-r--            6/27/2016 12:09 PM             Videos

PS C:\Users\Administrator>
```

# Comando ipconfig

```
Administrator: Windows PowerShell
PS C:\Users\Administrator> ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

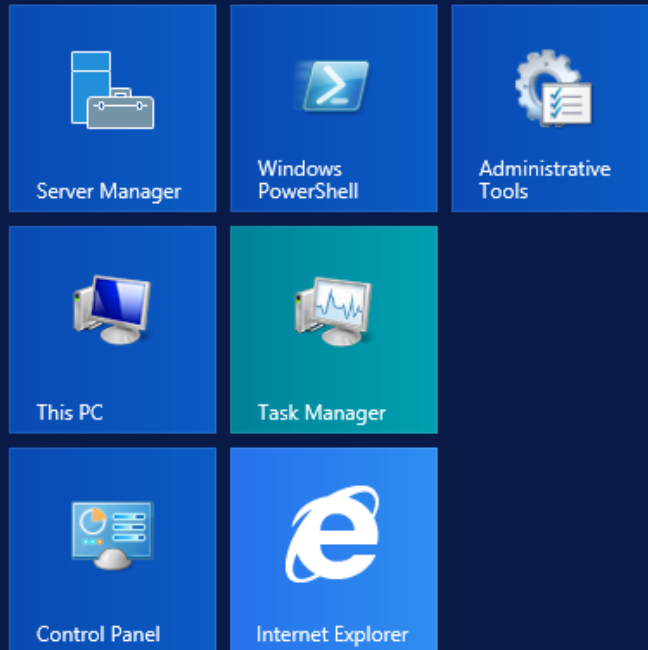
    Connection-specific DNS Suffix  . : 
    IPv4 Address. . . . . : 192.168.10.10
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.10.254

Tunnel adapter isatap.{A7A90ADA-F011-4DF8-BEB1-F20A254A2262}:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 
PS C:\Users\Administrator>
```

# Renicialização do SO

Start



Hardware: Installation (Unplanned)

Hardware: Installation (Planned)

Operating System: Recovery (Unplanned)

Operating System: Recovery (Planned)

Operating System: Reconfiguration (Unplanned)

Operating System: Reconfiguration (Planned)

Application: Maintenance (Unplanned)

Application: Maintenance (Planned)

Application: Installation (Planned)



# Verificação dos dados Alterados

The screenshot displays the Windows Server Manager interface. The left-hand navigation pane includes links to the Dashboard, Local Server (which is currently selected), All Servers, and File and Storage Services. The main area is titled 'Server Manager - Local Server' and features a 'PROPERTIES' section for a server named 'POMBO'. This section is organized into two columns of system settings. The first column lists the computer name (POMBO), workgroup (WORKGROUP), Windows Firewall status (Public: On), remote management (Enabled), remote desktop (Disabled), NIC teaming (Disabled), and the Ethernet IP address (192.168.10.10). The second column shows the last installed updates (Never), Windows Update status (Not configured), the last time updates were checked (Never), Windows Error Reporting (Off), the Customer Experience Improvement Program (Not participating), IE Enhanced Security Configuration (On), the time zone (UTC-08:00), and the product ID (Not activated). Below these properties, a horizontal scroll bar is visible. At the bottom of the window, the 'EVENTS' section is partially visible, showing 'All events | 42 total' and a search filter box.

PROPERTIES	
For POMBO	
Computer name	POMBO
Workgroup	WORKGROUP
Windows Firewall	Public: On
Remote management	Enabled
Remote Desktop	Disabled
NIC Teaming	Disabled
Ethernet	192.168.10.10
Last installed updates	Never
Windows Update	Not configured
Last checked for updates	Never
Windows Error Reporting	Off
Customer Experience Improvement Program	Not participating
IE Enhanced Security Configuration	On
Time zone	(UTC-08:00)
Product ID	Not activated
Operating system version	Microsoft Windows Server 2012 R2 Datacenter
Hardware information	innotek GmbH VirtualBox
Processors	Intel(R) Core(TM) i7-360M CPU @ 2.93GHz
Installed memory (RAM)	8 GB
Total disk space	49.66 GB

**EVENTS**  
All events | 42 total

Filter [ ]

# Desafio

- Que informações Contem a Janela de “Tarefas de Configuração Inicial”?
- Liste algumas ferramentas de virtualização, e indique as suas vantagens e desvantagens.
- Liste e Caracterize as versões do Windows server. Utilize uma tabela para diferencia-los.