# **CURSO PRÁTICO** Application Virtualization 5.0

Nível: Básico / Intermediário

# Módulo 2 Pré-requisitos

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#### Configurações Suportadas

Antes de começar qualquer projeto de Ap-V 5.0 é importante saber quais são os pré-requisitos de **software, hardware** e versão do **Sistema Operacional** que são necessários para cada componente da infraestrutura do Application Virtualization 5.0. Os pré-requisitos estão separados por seus componentes.

**Importante:** Os requisitos de hardware podem variar dependendo do número de clientes e de aplicações que você tenha em seu ambiente.

#### Management Server

Sistema Operacional		Service Pack	ck Arquitetura	
Windows Server 2008 (Standard, Enterprise, Datacenter ou Web)	R2	SP1	64 bits	
Windows Server 2012 (Standard ou Datacenter)				

Hardware	Capacidade
Processador	1.4 GHz ou melhor
Memória	1 GB RAM ou melhor
Disco	200 MB (não contempla as aplicações)

Pré-requisitos	Link para Download
.Net Framework 4.0	http://www.microsoft.com/en-us/download/details.aspx?id=17718
PowerShell 3.0	http://www.microsoft.com/en-us/download/details.aspx?id=34595
Visual C++ 2010 SP1 64 bits	http://www.microsoft.com/en-us/download/details.aspx?id=13523
Instalar a ROLE IIS e habilitar as f	eatures:

- Common HTTP Features (static content and default document)
- Application Development (ASP.NET, .NET Extensibility, ISAPI Extensions and ISAPI Filters)
- Security (Windows Authentication, Request Filtering)
- Management Tools (IIS Management Console)

Importante: Após a instalação do PowerShell 3.0 é necessário reiniciar o servidor para poder prosseguir com a instalação do App-V Management.

#### **Publishing Server**

Sistema Operacional		Service Pack	Arquitetura
Windows Server 2008 (Standard, Enterprise, Datacenter ou Web)	R2		64 bits
Windows Server 2012 (Standard ou Datacenter)			

Hardware	Capacidade
Processador	1.4 GHz ou melhor
Memória	2 GB RAM ou melhor
Disco	200 MB (não contempla as aplicações)

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Pré-requisitos	Link para Download
.Net Framework 4.0	http://www.microsoft.com/en-us/download/details.aspx?id=17718
Visual C++ 2010 SP1 64 bits	http://www.microsoft.com/en-us/download/details.aspx?id=13523

Instalar a ROLE IIS e habilitar as features:

- Common HTTP Features (static content and default document)
- Application Development (ASP.NET, .NET Extensibility, ISAPI Extensions and ISAPI Filters)
- Security (Windows Authentication, Request Filtering)
- Management Tools (IIS Management Console)

#### **Reporting Server**

Sistema Operacional		Service Pack	Arquitetura
Windows Server 2008 (Standard, Enterprise, Datacenter ou Web)	R2		64 bits
Windows Server 2012 (Standard ou Datacenter)			

Hardware	Capacidade
Processador	1.4 GHz ou melhor
Memória	2 GB RAM ou melhor
Disco	200 MB (não contempla as aplicações)

Pré-requisitos	Link para Download	
.Net Framework 4.0	http://www.microsoft.com/en-us/download/details.aspx?id=17718	
Visual C++ 2010 SP1 64 bits	http://www.microsoft.com/en-us/download/details.aspx?id=13523	
Instalar a ROLE IIS e habilitar as f	features:	
Common HTTP Features (static content and default document)		

- Application Development (ASP.NET, .NET Extensibility, ISAPI Extensions and ISAPI Filters)
- Security (Windows Authentication, Request Filtering)
- Management Tools (IIS Management Console)

#### SQL Server

App-V 5.0 Ser-	Versão	Edi-	Service	Arqui-
ver		çao	Раск	tetura
Management /	Microsoft SQL Server 2008	R2	SP2	64 bits
Reporting	(Standard, Enterprise, Datacenter, or the Developer Edi-			
	tion com a feature: Database Engine Services.)			
Management /	Microsoft SQL Server 2012			
Reporting	(Standard, Enterprise, Datacenter, or the Developer Edi-			
	tion com a feature: Database Engine Services.)			

#### App-V 5.0 Client

Sistema Operacional	Service Pack	Arquitetura
Windows 7	SP1	32 bits ou 64 bits

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```
Windows 8 Professional
```

32 bits ou 64 bits

Hardware	Capacidade
Processador	1.4 GHz ou melhor
Memória	1 GB RAM (32 bits) ou 2 GB RAM (64 bits)
Disco	100 MB (não contempla as aplicações)

Pré-requisitos	Link para Download
.Net Framework 4.0	http://www.microsoft.com/en-us/download/details.aspx?id=17718
PowerShell 3.0	http://www.microsoft.com/en-us/download/details.aspx?id=34595
Visual C++ 2010 SP1 64 bits	http://www.microsoft.com/en-us/download/details.aspx?id=13523

#### App-V 5.0 Sequencer

Sistema Operacional	Edição	Service Pack	Arquitetura
Windows 7		SP1	32 bits ou 64 bits
Windows 8 Professional			32 bits ou 64 bits
Windows Server 2008	R2	SP1	64 bits
Windows Server 2012			64 bits

Importante: Os requisitos de hardware podem variar dependendo da aplicação que será virtualizada. Verifique as configuração de hardware recomendada pelo fabricante.

Pré-requisitos	Link para Download
.Net Framework 4.0	http://www.microsoft.com/en-us/download/details.aspx?id=17718
PowerShell 3.0	http://www.microsoft.com/en-us/download/details.aspx?id=34595

#### Hands On – Módulo 2

#### • Criação do grupo administrativo do App-V

Para administrar o App-V Management é necessário criar um grupo no domínio e esse grupo você deve adicionar quais são os usuários que serão responsáveis por administrar o App-V Server tendo como uma das funções adicionar usuários, aplicações, grupos de aplicações entre outras.

No meu cenário criei o grupo chamado AppVAdmin.

• Instalação do Management Server DB e Reporting Server DB

#### Configuração do servidor:

SRV-APP-SQL-01.perrott.local
Windows Server 2008 R2 SP1
IP: 10.60.100.71/24
DNS: 10.60.100.10
C:\ (80 GB) - Sistema
E:\ (150 GB) - Dados
4 cores de 3.3 GHz
4 GB RAM

Importante: Estou utilizando o Hyper-V 3.0 para virtualizar os servidores e é necessário instalar o Integration Services nos servidores e clientes (Windows Server 2008 R2 SP1 e Windows 7 SP1).

**Importante:** Antes de iniciar a instalação do SQL Server verifique que o Windows Server está totalmente atualizado. Em meu lab conto com a ajuda do **WSUS** para deixar sempre o ambiente atualizado.

Importante: Nessa instalação foi desabilitado o Firewall do Windows.

#### Instalação do SQL Server 2008 R2

Insira o CD de instalação do SQL Server 2008 R2 e siga os passos abaixo:

Clique em Installation.

SQL Server Installation Center		
Planning Installation	ŧ	New installation or add features to an existing installation. Launch a wizard to install SQL Server 2008 R2 in a non-dustered environment or to add features to an existing SQL Server 2008 R2 instance.
Maintenance Tools Resources	ŧ	New SQL Server failover cluster installation Launch a wizard to install a single-node SQL Server 2008 R2 failover cluster.
Advanced	<b>;</b> N	Add node to a SQL Server failover cluster Launch a wizard to add a node to an existing SQL Server 2008 R2 failover cluster.
Options	1	Upgrade from SQL Server 2000, SQL Server 2005 or SQL Server 2008 Launch a wizard to upgrade SQL Server 2000, SQL Server 2005 or SQL Server 2008 to SQL Server 2008 R2.
	•	Search for product updates Search Microsoft Update for SQL Server 2008 R2 product updates.
SQL Server 2008 R2		

Verifique se os teste iniciais possui alguma pendencia, caso tenha, resolva as pendencias antes de continuar a instalação do SQL Server. Caso esteja tudo resolvido clique em **OK**.

🚼 SQL Server 2008 R2 Setup		_ 🗆 🗙
Setup Support Rules Setup Support Rules identify prob before Setup can continue.	lems that might occur when you install SQL Server Setup support files	. Failures must be corrected
Setup Support Rules	Operation completed. Passed: 7. Failed 0. Warning 0. Skippe	d 0.
	Hide details_<< <u>View detailed report</u>	<u>R</u> e-run
	Rul Rule	Status
	Minimum operating system version	Passed
	Setup administrator	Passed
	Restart computer	Passed
	Windows Management Instrumentation (WMI) service	Passed
	Consistency validation for SQL Server registry keys	Passed
	Long path names to files on SQL Server installation media	Passed
	SQL Server Setup Product Incompatibility	Passed
		or form
		UK Cancel

Informe o serial de instalação do SQL Server (lembrando que o serial tem que ser compatível com o a versão que você vai trabalhar). Serial informado, clique em **Next**.

🍀 SQL Server 2008 R2 Setup	×□.
Product Key Specify the edition of SQL S	ierver 2008 R2 to install.
Product Key License Terms Setup Support Files	Validate this instance of SQL Server 2008 R2 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 18-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard.
	<pre>&lt; Back Next &gt; Cancel</pre>

Clique em l accept the license terms e em seguida clique em Next.



Clique em Install.

🍀 SQL Server 2008 R2 Setup			
Setup Support Files			
Click Install to install Setup Supp	ort files. To install or update SQL Se	rver 2008 R2, these files are required.	
Product Key	The following components are	required for SQL Server Setup:	
License Terms	Feature Name	Status	
Setup Support Files	Setup Support Files		
			< Back Install Cancel
			Cancel

Verifique todos os requisitos e clique em Next.

🎲 SQL Server 2008 R2 Setup		
Setup Support Rules	ms that might occur when you install SQL Server Setup support files. Failures	must be corrected
Setup Support Rules Setup Role Feature Selection Installation Rules	Operation completed. Passed: 11. Failed 0. Warning 0. Skipped 0. Hide detailg << View detailed report	Re-run
Error Reporting Installation Configuration Rules	Rul Rule	Status
Ready to Install Installation Progress	Fusion Active Template Library (ATL)     Unsupported SQL Server products	Passed Passed
Complete	Performance counter registry hive consistency     Previous releases of SOL Server 2008 Business Intelligence Develop	Passed
	Previous CTP installation	Passed
	Consistency validation for SQL Server registry keys Computer domain controller	Passed Passed
	Microsoft .NET Application Security  Edition WOW64 platform	Passed Passed
	Windows PowerShell Windows Firewall	Passed Passed
	< Back New	t > Cancel Help

Clique em SQL Server Feature Installation.

🚼 SQL Server 2008 R2 Setup	
Setup Role	
Click the SQL Server Feature Installa install a specific configuration.	tion option to individually select which feature components to install, or click a feature role to
Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	<ul> <li>SQL Server Feature Installation Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration Services, and other features.</li> <li>All Features With Defaults Install all features using default values for the service accounts.</li> </ul>
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Em meu caso eu "apontei" a instalação para a unidade E:\.

Marque as features que está na imagem e clique em Next.

🎲 SQL Server 2008 R2 Setup	<u>× 0.</u>		
Feature Selection Select the Standard features to install.			
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Eestures:     Description:       Interance Features     Server features are instance- aware and have their own registry hives. They support I SQL Server Replication I SQL Server Replication I Full-Text Search Reporting Services     Server features are instance- aware and have their own registry hives. They support multiple instances on a computer.       I Analysis Services     Reporting Services       Shared Features     Subainess Intelligence Development Studio       Client Tools Connectivity     Integration Services       Client Tools Solk     SQL Server Books Online       Management Tools - Basic I SQL Client Connectivity SDK     Management Tools - Complete       SQL Client Connectivity SDK     Microsoft Sync Framework Redistributable Features		
	Select All         Unselect All           Shared feature directory:         E:\Program Files\Wicrosoft SQL Server\            Shared feature directory (x86):         E:\Program Files\Wicrosoft SQL Server\		
	< Back Next > Cancel Help		

Verifique se passou em todos os teste, caso contrário resolva as pendências antes de continuar. Clique em **Next**.

髂 SQL Server 2008 R2 Setup				
Installation Rules Setup is running rules to determine if	f the ins	tallation process will be blocked. For more information, click Help.		
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration	Oper Hide View	ation completed. Passed: 6. Failed 0. Warning 0. Skipped 18. e details << <u>detailed report</u>		Re-run
Disk Space Requirements Server Configuration	Rul	Rule	Status	-
Database Engine Configuration		SQL Server 2005 Express tools	Passed	
Reporting Services Configuration		Operating system supported for edition	Passed	
Error Reporting		Previous releases of Microsoft Visual Studio 2008	Passed	
Installation Configuration Rules Ready to Install		SharePoint .NET Framework Supported Check	Not applicable	
		Operating system requirement for SQL Server PowerPivot for Share	Not applicable	
Complete		User account requirement for Farm administrator	Not applicable	
		Internet Information Services version	Not applicable	
		64-bit processor	Not applicable	
		Single instance requirement	Not applicable	
		64-bit operating system	Not applicable	
		SharePoint configuration and upgrade check for existing farm	Not applicable	
		PowerPivot for SharePoint check for existing farm	Not applicable	
		SharePoint configuration check for new farm	Not applicable	<b>_</b>
		< <u>B</u> ack <u>N</u> ex	t > Cancel	Help

Não modifique a instância. Apenas modifiquei a local de instalação para E:\. Clique em Next.

🍀 SQL Server 2008 R2 Setup					
Instance Configuration Specify the name and instance ID for	or the instance of SQL Serv	ver. Instance ID becon	nes part of the install	ation path.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	© Default instance © Named instance: Instance ID: Instance ID: SQL Server directory: Reporting Services directory: Installed instances: Instance Name	MSSQLSERVER MSSQLSERVER v: El\Program Fil E:\Program Fil ectory: E:\Program Fil Instance ID	es\Microsoft SQL Serve es\Microsoft SQL Ser es\Microsoft SQL Ser   Features	r\ ver\MSSQL10_50.MS ver\MSRS10_50.MS3	SSQLSERVER SQLSERVER
	<b>'</b>		< <u>B</u> ack	Next >	Cancel Help

Verifique se está estudo certo e clique em Next.

🎲 SQL Server 2008 R2 Setup		_O×
Disk Space Requirements Review the disk space summary for t	he SQL Server features you selected.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration <b>Disk Space Requirements</b> Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Disk Usage Summary:	
	<u> </u>	telp

Para as Account Name usei a conta NETWORK SERVICE e coloquei para iniciar automático o serviço SQL Server Agent. Não fiz modificações na Collation. Clique em Next.

🎲 SQL Server 2008 R2 Setup				
Server Configuration Specify the service accounts and collation configuration.				
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements <b>Server Configuration</b> Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Service Accounts Collation  Microsoft recommends that you use a Service SQL Server Agent SQL Server Agent SQL Server Reporting Services SQL Server Integration Services SQL Server Integration Services SQL Server Browser	Account Name NT AUTHORITY(NETWOR NT AUTHORITY(NETWOR NT AUTHORITY(NETWOR NT AUTHORITY(NETWOR NT AUTHORITY(NCAL S NT AUTHORITY(NCAL S NT AUTHORITY(NCAL S	2L Server servic	e. Startup Type Automatic Automatic Automatic Automatic Manual Disabled Manual Disabled all SQL Server services
		< Back	Next >	Cancel Help

Em **Authentication mode** eu configurei como **Mixed Mode** e configurei uma conta para **sa**. E adicionei o conta de **Administrator** para acesso administrativo ao banco.

🚼 SQL Server 2008 R2 Setup	-02
Database Engine Config Specify Database Engine authentica	uration ion security mode, administrators and data directories.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Account Provisioning       Data Directories       FILESTREAM         Specify the authentication mode and administrators for the Database Engine.         Authentication Mode <ul> <li>© Windows authentication mode</li> <li>© Mixed Mode (SQL Server authentication and Windows authentication)</li> <li>Specify the password for the SQL Server system administrator (sa) account.</li> <li>Enter password:</li> <li>© Confirm password:</li> <li>© Specify SQL Server administrators</li> </ul> SQL Server administrators           PERROTT ladministrator (Administrator)         SQL Server administrator the Database Engine.           Add Current User         Add         Remove
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Em Reporting Services Configuration clique em Next.

🎲 SQL Server 2008 R2 Setup	
Reporting Services Conf	iguration guration mode.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration <b>Reporting Services Configuration</b> Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	<ul> <li>Install the native mode default configuration.</li> <li>Setup will install the report server and configure it in Native mode to use the default values. The report server is usable as soon as Setup is finished.</li> <li>Install the SharePoint integrated mode default configuration.</li> <li>Setup will create the report server database in SharePoint integrated mode and configure the report server to use the default values. However, integrated operations will not be supported until a minimal installation of a SharePoint product or technology is deployed on the report server computer and the Reporting Services Addin for SharePoint Technologies is installed and configured on the instance of the SharePoint product or technology you are using.</li> <li>Install, but do not configure the report server.</li> <li>Setup will install, but will not configure, the report server software. After installation is finished, you can use the Reporting Services Configuration tool to set options that are required to run the report server.</li> </ul>
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Em Error Reporting clique em Next.



Em **Installation Configuration Rules** verique se tem algum pendencia, antes de prosseguir com a instalação resolva as pendência e clique em **Next**.

🚼 SQL Server 2008 R2 Setup		
Installation Configuratio	Rules re installation process will be blocked. For more information, click Help.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation completed. Passed: 6. Failed 0. Warning 0. Skipped 2. Hide details_<< <u>View detailed report</u>	<u>R</u> e-run
	Rule         Instance name         SQL Server 2000 Analysis Services (64-bit) install action         Existing clustered or cluster-prepared instance         Cross language installation         Same architecture installation         Reporting Services Catalog Database File Existence         Reporting Services Catalog Temporary Database File Existence	Status       Passed       Not applicable       Passed       Passed       Passed       Passed       Passed       Passed
	< <u>B</u> ack N	ext > Cancel Help

Verifique se está tudo certo e clique em Install.



Se foi seguido todos os passos certo o SQL Server foi instalado corretamente. Clique em Close.

🏶 SQL Server 2008 R2 Setup	
Complete	
Your SQL Server 2008 R2 installation	on completed successfully.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress <b>Complete</b>	Summary log file has been saved to the following location: C:\Program Files\MicrosoftSQL_Server\100\Setup Bootstrap\Log\20121227_165915\Summary_SRV-APPV-SQL- 01_20121227_165915.txt Information about the Setup operation or possible next steps: Your SQL Server 2008 R2 installation completed successfully. Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see the Microsoft Update Web site at http://go.microsoft.com/fwlink/?LinkId=108409. Samples By default, sample databases and sample code are not installed as part of SQL Server Setup. To install sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodePiex Web site at http://go.microsoft.com/fwlink/?LinkId=37843. To read about support for SQL Server sample databases and sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodePiex Web site at http://go.microsoft.com/fwlink/?LinkId=37843. To read about support for SQL Server sample databases and sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodePiex Web site at http://go.microsoft.com/fwlink/?LinkId=37843. To read about support for SQL Server sample databases and The following notes apply to for SQL Server sample databases and sample databases and sample code for non-Express editions of SQL Server Setup. To install sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodePiex Web site at http://go.microsoft.com/fwlink/2LinkId=37843. To read about support for SQL Server sample databases and Support for SQL Server sample databases and
	Close Help

Importante: Após a instalação do SQL Server 2008 R2 instale o SP1 e SP2 do SQL antes de instalar o App-V 5.0 Management Database.

# INFORMAÇÃO

Todo conteúdo encontrado aqui reflete a minha experiência vivida com o produto Application Virtualization (LABs, Projetos, POCs ou Palestras) e não substitui a leitura da documentação oficial do produto e nem tão pouco reflete a opinião da Microsoft ou outro fabricante.

## **Colabore com a COMUNIDADE Microsoft**

Se você encontrar algum erro ou gostaria de contribuir com o material do **CURSO PRÁTICO App-V 5.0** acesse meu blog e mande um recado.

> Obrigado pela leitura :) Vinícius Perrott