This information will be handy while troubleshooting issues 

Memory Management:

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The below information will be handy while troubleshooting general OS performance issues.

- Physical Memory vs Virtual Memory

- [Windows Internals](http://technet.microsoft.com/en-us/sysinternals/bb963901).

- [Mark Russinovich’s blogs](http://blogs.technet.com/b/markrussinovich/).

- User mode dumps – Full and Mini dumps | [Capturing Application Crash Dumps](http://blogs.technet.com/b/askperf/archive/2007/06/15/capturing-application-crash-dumps.aspx)

- Kernel dumps – small, kernel and complete memory dumps | [Understanding Crash Dump Files](http://blogs.technet.com/b/askperf/archive/2008/01/08/understanding-crash-dump-files.aspx)

- [Windows Sysinternals](http://technet.microsoft.com/en-us/sysinternals/default) utility [ProcDump](http://technet.microsoft.com/en-us/sysinternals/dd996900)

- Configure Dr.Watson as the default debugger drwtsn32 -i then run drwtsn32 and select Full to capture a complete user mode process crash dump.

- [ADPlus utility](http://support.microsoft.com/kb/286350) which is part of Debugging Tools for Windows (WinDBG [x86](http://msdl.microsoft.com/download/symbols/debuggers/dbg_x86_6.11.1.404.msi) and [x64](http://msdl.microsoft.com/download/symbols/debuggers/dbg_amd64_6.11.1.404.msi)). WinDBG was earlier a standalone download now part of Windows SDK. ADPlus was a script earlier with recent WinDBG it is an EXE.

- [User Mode Process Dumper](http://www.microsoft.com/en-us/download/details.aspx?displaylang=en&id=4060) | [How to create a user-mode process dump file in Windows Server 2008](http://support.microsoft.com/kb/949180)

- Vista onwards we don’t have drwtson32. It is replaced by Windows Error Reporting (WER). For hung application processes you can right click from within task manager and create dump. For process/application crash you need to configure WER.

[TechNet](http://technet.microsoft.com/en-us/library/bb490841.aspx) | [MSDN](http://msdn.microsoft.com/en-us/library/windows/desktop/bb513641(v=vs.85).aspx) | [Getting Started](http://msdn.microsoft.com/en-us/windows/hardware/gg487440) | [AskPerf Blog](http://blogs.technet.com/b/askperf/archive/2008/02/05/ws2008-windows-error-reporting.aspx)

Here’s the index of the entire Pushing the Limits series. While they can stand on their own, they assume that you read them in order.

[Pushing the Limits of Windows: Physical Memory](http://blogs.technet.com/markrussinovich/archive/2008/07/21/3092070.aspx)

[Pushing the Limits of Windows: Virtual Memory](http://blogs.technet.com/markrussinovich/archive/2008/11/17/3155406.aspx)

[Pushing the Limits of Windows: Paged and Nonpaged Pool](http://blogs.technet.com/markrussinovich/archive/2009/03/26/3211216.aspx)

[Pushing the Limits of Windows: Processes and Threads](http://blogs.technet.com/markrussinovich/archive/2009/07/08/3261309.aspx)

[Pushing the Limits of Windows: Handles](http://blogs.technet.com/markrussinovich/archive/2009/09/29/3283844.aspx)

[Pushing the Limits of Windows: USER and GDI Objects – Part 1](http://blogs.technet.com/markrussinovich/archive/2010/02/24/3315174.aspx)

[Pushing the Limits of Windows: USER and GDI Objects – Part 2](http://blogs.technet.com/markrussinovich/archive/2010/03/31/3322423.aspx)

**RDS More information:**

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<http://blogs.technet.com/b/askperf/archive/2012/10/31/windows-8-windows-server-2012-pooled-virtual-desktop-infrastructure.aspx>

Below are some useful articles (sorry there are lot of them  ) which I think will help you in setting up your environment.

Single Image Management for Virtual Desktop Collections in Windows Server 2012 >>>>>>>>>>>>>>>>>>> This is very useful for your VDI pool setup using template machine

<http://blogs.msdn.com/b/rds/archive/2012/10/29/single-image-management-for-virtual-desktop-collections-in-windows-server-2012.aspx>

RD Connection broker High Availability in Windows Server 2012 >>>>>>>>>>>>>>> Answer for your question about connection broker high availability

<http://blogs.msdn.com/b/rds/archive/2012/06/27/rd-connection-broker-high-availability-in-windows-server-2012.aspx>

Configure Remote Desktop Connection Broker in Windows Server 2012 with SQL Server 2012 High Availability

<http://blogs.msdn.com/b/rds/archive/2012/10/16/configure-remote-desktop-connection-broker-in-windows-server-2012-with-sql-server-2012-high-availability.aspx>

RD Web Access Single Sign on now easier to enable in Windows Server 2012 >>>>>>>>>>>>>>> Answer for your single sign on question

<http://blogs.msdn.com/b/rds/archive/2012/06/25/remote-desktop-web-access-single-sign-on-now-easier-to-enable-in-windows-server-2012.aspx>

Few more written by our VDI support experts in support team.

VDI Personal Desktop collections

<http://blogs.technet.com/b/askperf/archive/2012/11/01/windows-8-server-2012-vdi-personal-desktop-collections.aspx>

Pooled Virtual Desktop Infrastructure

<http://blogs.technet.com/b/askperf/archive/2012/10/31/windows-8-windows-server-2012-pooled-virtual-desktop-infrastructure.aspx>

Session based Desktop Deployment

<http://blogs.technet.com/b/askperf/archive/2012/11/02/windows-8-windows-server-2012-session-based-desktop-deployment.aspx>

Remote Desktop Management Server

<http://blogs.technet.com/b/askperf/archive/2012/10/30/windows-8-windows-server-2012-remote-desktop-management-server.aspx>

Additional Information

Get a Complete Windows Server 2012 VDI Solution Today

<http://blogs.msdn.com/b/rds/archive/2012/07/16/get-a-complete-windows-server-2012-vdi-solution-today.aspx>

Setting up a new Remote Desktop Services deployment using Windows Powershell

<http://blogs.msdn.com/b/rds/archive/2012/07/18/setting-up-a-new-remote-desktop-services-deployment-using-windows-powershell.aspx>

Everything You ever wanted to know about Microsoft VDI from TechED 2012

<http://blogs.msdn.com/b/rds/archive/2012/07/12/all-you-want-to-learn-about-microsoft-vdi-from-teched-2012.aspx>

Easy User Data Management with User Profile Disks in Windows Server 2012

<http://blogs.msdn.com/b/rds/archive/2012/11/13/easier-user-data-management-with-user-profile-disks-in-windows-server-2012.aspx>

RemoteFX Features in Windows Server 2012

<http://blogs.msdn.com/b/rds/archive/2012/11/26/remotefx-features-for-windows-8-and-windows-server-2012.aspx>

RemoteFX USB Redirection in Windows Server 2012 and Windows 8

<http://blogs.msdn.com/b/rds/archive/2012/09/11/remotefx-usb-redirection-in-windows-server-2012-and-windows-8.aspx>

Removing Server Roles and Features

<http://technet.microsoft.com/en-us/library/cc732257.aspx>

Unable to install Role service error - when installing Remote desktop services

<http://social.technet.microsoft.com/Forums/windowsserver/en-US/f2d16f40-ae75-426b-ba00-0d05c5d48dd7/unable-to-install-role-service-error-when-installing-remote-desktop-services?forum=winserverTS>

Deploying Remote Desktop Gateway Step-by-Step Guide

<http://www.microsoft.com/en-us/download/details.aspx?id=5177>

Deploying RD Gateway using a Scenario Based Deployment

<http://social.technet.microsoft.com/wiki/contents/articles/12184.deploying-rd-gateway-using-a-scenario-based-deployment.aspx>

What’s new in Windows Server 2012 Remote Desktop Gateway

<http://blogs.msdn.com/b/rds/archive/2013/03/14/what-s-new-in-windows-server-2012-remote-desktop-gateway.aspx>

How to troubleshoot Logon Attempt Failed messages when connecting through RD Gateway

<http://blogs.msdn.com/b/rds/archive/2011/09/07/how-to-troubleshoot-logon-attempt-failed-messages-when-connecting-through-rd-gateway.aspx>

Windows Server 2012 Remote Desktop Services (RDS)

<http://blogs.technet.com/b/windowsserver/archive/2012/05/09/windows-server-2012-remote-desktop-services-rds.aspx>

Test Lab Guide: Remote Desktop Services Session Virtualization Quick Start

<http://technet.microsoft.com/en-us/library/hh831754.aspx>

Test Lab Guide: Remote Desktop Services Session Virtualization Standard Deployment

<http://technet.microsoft.com/en-us/library/hh831610.aspx>

Test Lab Guide: Unmanaged Pooled Virtual Desktop Collections

<http://technet.microsoft.com/en-us/library/hh831618.aspx>

Test Lab Guide: Unmanaged Pooled Virtual Desktop Collections

<http://technet.microsoft.com/en-us/library/hh831618.aspx>

Test Lab Guide: Managed Pooled Virtual Desktop Collections

<http://technet.microsoft.com/en-us/library/hh831663.aspx>

Test Lab Guide: Virtual Desktop Infrastructure Standard Deployment

<http://technet.microsoft.com/en-us/library/hh831541.aspx>

Test Lab Guide: Virtual Desktop Infrastructure Quick Start

<http://technet.microsoft.com/en-us/library/hh831585.aspx>

Remote Desktop Services Overview 2012

<http://technet.microsoft.com/en-us/library/hh831447.aspx>

Test Lab Guide: Remote Desktop Services Publishing

<http://technet.microsoft.com/en-us/library/hh831442.aspx>

Test Lab Guide: Remote Desktop Services Licensing

<http://technet.microsoft.com/en-us/library/jj134160.aspx>

Test Lab Guide: Demonstrate Remote Desktop Services in Windows Server "8" Beta

<http://www.microsoft.com/en-us/download/details.aspx?id=29011>

Overview Videos for Remote Desktop Services in Windows Server 2012

<http://blogs.msdn.com/b/rds/archive/2012/06/13/overview-videos-for-remote-desktop-services-in-windows-server-2012.aspx>

Automating the silent deployment of RemoteApp and Desktop Connection. (Remote app connection)

<http://blogs.msdn.com/b/dsadsi/archive/2011/11/30/automating-the-silent-deployment-of-remoteapp-and-desktop-connection.aspx>

Hope these information will help you for sure. If you have any follow up questions, feel free to reach out to me either by mail or phone. I would be glad to help you.

It was great working with you. Thanks for your time in this matter.