]HackingTeam[

Remote Control System

Delivery Kickstart

Revision	Author (s)	Release Date
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Contents

1 Objectives

This document details requisites needed to perform a correct installation of Remote Control System 8.

Please verify that all of the prerequisites are fulfilled before proceeding with the installation.

2 Environment

2.1 Requirements

The following system requirements must be present:

1. Rack cabinet or other dedicated area for production systems
2. KVM or separated items (monitor + USB keyboard + USB mouse)
3. UPS or power strips to cover all production systems
4. Network switch 100 Mbps (at least) with all production systems attached
5. Wired high-speed Internet connection available for all production systems

3 RCS Master Node

3.1 System Requirements

The following system requirements **must** be present:

1. 96 GB of RAM minimum
2. 2 x 146GB SAS HD, RAID1 for operating system
3. 4 x 600GB SAS HD, RAID 10 for RCS
4. Windows Server 2008 R2 SP1 Enterprise Edition 64 Bit (English)

3.2 Disk configuration

The following table details how to configure the disks:

Unit	Disk	RAID	Partitioning	Notes
2	146 GB	RAID 1	NTFS, single partition	Install operating system here
4	600 GB	RAID 10	NTFS, single partition	Mount as C:\RCS

3.3 Suggested Hardware Specification

Below there is a recommended hardware configuration for RCS Master Node.

Dell PowerEdge R720
CPU : Intel Xeon E5-2660 2.20Ghz, 20MB Cache
RAM : 12 x 8GB RDIMM, 1600Mhz
HD (OS) : 2 x 146GB SAS 6Gbps 15k 2.5" HD Hot Plug (RAID1)
HD (Data) : 4 x 600GB SAS 6Gbps 10k 2.5" HD Hot Plug (RAID10)
RAID : PERC H710p Integrated RAID Controller
Network : Broadcom 5720 QP 1Gb Network Card
Optical : 16X DVD+/-RW Drive SATA

3.4 Additional Configurations

1. Enable the NTP Synchronization towards the NTP Server on the RCS Collector

4 RCS Shard

4.1 System Requirements

The following system requirements must be present:

1. 96 GB of RAM minimum
2. 2 x 146GB SAS HD, RAID1 for operating system
3. 4 x 600GB SAS HD, RAID 10 for RCS
4. Windows Server 2008 R2 SP1 Enterprise Edition 64 Bit (English)

4.2 Disk configuration

The following table details how to configure the disks:

Unit	Disk	RAID	Partitioning	Notes
2	146 GB	RAID 1	NTFS, single partition	Install operating system here
4	600 GB	RAID 10	NTFS, single partition	Mount as C:\RCS

4.3 Suggested Hardware Specification

Below there is a recommended hardware configuration for RCS Shard.

Dell PowerEdge R720
CPU : Intel Xeon E5-2660 2.20Ghz, 20MB Cache
RAM : 12 x 8GB RDIMM, 1600Mhz
HD (OS) : 2 x 146GB SAS 6Gbps 15k 2.5" HD Hot Plug (RAID1)
HD (Data) : 4 x 600GB SAS 6Gbps 10k 2.5" HD Hot Plug (RAID10)
RAID : PERC H710p Integrated RAID Controller
Network : Broadcom 5720 QP 1Gb Network Card
Optical : 16X DVD+/-RW Drive SATA

4.4 Additional Configurations

1. Enable the NTP Synchronization towards the NTP Server on the RCS Collector

5 RCS Collector

5.1 System Requirements

The following system requirements must be present:

1.   16 GB of RAM

2.   2 x 300GB SAS HD, RAID1 for operating system and RCS

3.   Windows Server 2008 R2 SP1 Foundation Edition 64 Bit or above (English)

5.2 Disk configuration

The following table details how to configure the disks:

Unit	Disk	RAID	Partitioning	Notes
2	300 GB	RAID 1	NTFS, single partition	Install operating system here

5.3 Suggested Hardware Specification

Below there is a recommended hardware configuration for RCS Collector.

Dell PowerEdge R210 II
CPU : Intel Xeon E3-1230 3.20Ghz, 8MB Cache
RAM : 2 x 8GB DDR3, 1333Mhz
HD (OS) : 2 x 300GB SAS 6Gbps 15k 2.5" HD Hot Plug (RAID1)
RAID : PERC H200 RAID Controller
Network : 2 x Broadcom 5720 QP 1Gb Network Card
Optical : 16X DVD+/-RW Drive SATA

5.4 Additional Configurations

1.   Enable the NTP Service

2.   Enable the NTP Synchronization towards the closest public NTP Server

6 RCS Anonymizer

RCS Anonymizer is a rented VPS (Virtual Private Server).

6.1 System Requirements

The following system requirements must be present:

1. 128 MB of RAM

2. 10 GB Hard Disk

3. Linux CentOS 6 32-bit

4. Static Public IP Address

5. 2 Mbit/s Internet Connection minimum

NOTE: Due to company policies and to protect client's confidentiality requirements, Hacking Team is not allowed to provide accounts on VPS services.

6.2 Suggested VPS List

1. LINODE   http://www.linode.com   USA and many other locations
2. HOST EUROPE   http://www.hosteurope.de   Germany and other locations

7 RCS Console

NOTE: A VPN connection is suggested in order to reach the RCS Master Node from an external network.

7.1 System Requirements

The following system requirements must be present:

1. Windows or OS X Operating System
2. 4 GB of RAM
3. 320 GB SATA HD
4. Display capable of a minimum resolution of 1280x800 pixel

7.2 Suggested Hardware Specification

Below there is a recommended hardware configuration for RCS Console.

Dell Vostro 3560
CPU : Intel Core i3-3120M 2.50Ghz, 3MB Cache
RAM : 1 x 4GB DDR3, 1600Mhz
HD : 1 x 320GB SATA 7.2k 2.5" HD
Video : Intel HD Graphics 4000
Network : 1 x Dell Wireless 1901 802.11 a/b/g/n
Optical : 8X DVD+/-RW Drive SATA

7.3 Additional Configurations

1. Adobe Air runtime shall be installed on the system.

8 Backup

The Backup unit is a SAN (Storage Area Network) or NAS (Network Attached Storage) device that will be responsible for all RCS data backup.

8.1 System Requirements

The following system requirements must be present:

1. 64 GB of RAM
2. 6 x 1 TB SAS HD RAID 6, NTFS formatted, single partition, for backup storage.

8.2 Connection to Master Node

The Backup storage must be mounted as a NTFS directory as "C:\RCS\DB\backup".

8.3 Suggested Hardware Specification

Below there is a recommended hardware configuration for Backup unit.

DELL PowerVault MD3200i
HD : 6 x 1TB SAS 6Gbps 7.2k HD Hot Plug (RAID 6)