Remote Control System

Delivery Kickstart
<table>
<thead>
<tr>
<th>Revision</th>
<th>Author(s)</th>
<th>Release Date</th>
</tr>
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<tbody>
<tr>
<td>1.7</td>
<td>FAE Team</td>
<td>2013, 20th March</td>
</tr>
</tbody>
</table>
Contents

1 Objectives .............................................................................................................4

2 Environment ...........................................................................................................5

   2.1 Requirements.................................................................................................5

3 RCS Master Node ....................................................................................................6

   3.1 System Requirements......................................................................................6
   3.2 Disk configuration ............................................................................................6
   3.3 Suggested Hardware Specification ..................................................................6
   3.4 Additional Configurations ..............................................................................6

4 RCS Shard .................................................................................................................7

   4.1 System Requirements......................................................................................7
   4.2 Disk configuration ............................................................................................7
   4.3 Suggested Hardware Specification ..................................................................7
   4.4 Additional Configurations ..............................................................................7

5 RCS Collector .............................................................................................................8

   5.1 System Requirements......................................................................................8
   5.2 Disk configuration ............................................................................................8
   5.3 Suggested Hardware Specification ..................................................................8
   5.4 Additional Configurations ..............................................................................8

6 RCS Anonymizer .......................................................................................................9

   6.1 System Requirements......................................................................................9
   6.2 Suggested VPS List ..........................................................................................9

7 RCS Console ............................................................................................................10

   7.1 System Requirements......................................................................................10
   7.2 Suggested Hardware Specification ..................................................................10
   7.3 Additional Configurations ..............................................................................10

8 Backup ....................................................................................................................11

   8.1 System Requirements......................................................................................11
   8.2 Connection to Master Node ...........................................................................11
   8.3 Suggested Hardware Specification ..................................................................11
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:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Disk</th>
<th>RAID</th>
<th>Partitioning</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>146 GB</td>
<td>RAID 1</td>
<td>NTFS, single partition</td>
<td>Install operating system here</td>
</tr>
<tr>
<td>4</td>
<td>600 GB</td>
<td>RAID 10</td>
<td>NTFS, single partition</td>
<td>Mount as C:\RCS</td>
</tr>
</tbody>
</table>

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

NOTE: This is an RCS optional module and this section can be skipped if client’s license does not include it.

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:

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<tr>
<td>2</td>
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<td>NTFS, single partition</td>
<td>Install operating system here</td>
</tr>
<tr>
<td>4</td>
<td>600 GB</td>
<td>RAID 10</td>
<td>NTFS, single partition</td>
<td>Mount as C:\RCS</td>
</tr>
</tbody>
</table>

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 300 GB 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:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Disk</th>
<th>RAID</th>
<th>Partitioning</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>300 GB</td>
<td>RAID 1</td>
<td>NTFS, single partition</td>
<td>Install operating system here</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Dell Vostro 3560</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
</tr>
<tr>
<td><strong>RAM</strong></td>
</tr>
<tr>
<td><strong>HD</strong></td>
</tr>
<tr>
<td><strong>Video</strong></td>
</tr>
<tr>
<td><strong>Network</strong></td>
</tr>
<tr>
<td><strong>Optical</strong></td>
</tr>
</tbody>
</table>

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)