Case study VDI TR Odonto

Cândido Raphael
oVirt contributor
Fedora Ambassador
Technical Support Engineer
Remote Linux Experts
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Virtual Desktop Infrastructure (VDI)

Centralized management, security and policy enforcement

Virtual desktops with user experience of a physical PC

- Multiple monitors
- HD-quality video
- Bi-directional audio/video for VoIP or video-conferencing
- Smartcard support
- USB support

Industry-leading density of virtual desktops/server
Architecture
Architecture From 30,000 Feet

Client (web portals)

Engine

Hosts (VDSM)
oVirt High-Level Architecture

- Postgres
- AD
- IPA
- Shared Storage: FC/iSCSI/NFS
- oVirt Engine: Java
- REST
- Guest agent
- Linux VM
- Win VM
- libvirt
- VDSM
- Host | Node
- Local Storage
- Admin Portal: gwt
- SDK/CLI: python
- User Portal: gwt
- Linux/Windows client
- SPICE
Case VDI

• TR Odonto - Dental service company
  - 10 Employees
  - 10 Dental offices
  - 5 Financial/Administrative office staff
  - 5 dentists attendants
Case VDI

- Initial proposal offered
  - Windows Server Standard Ed. 2012 for Terminal Service
  - Windows Server Standard Ed. 2012 for File Server
  - 15 Thin Client
  - 2 Server DELL R530

- 1 Server for Windows Server 2012 for Terminal Service
  - Configuration
    - 1 Dell PowerEdge R530 Server – **Engine/Host virtualization**
    - (2) Intel® Xeon® E5-2630 v3 2.4GHz, 20M Cache, 8.00GT / s
    - (8) 16GB RDIMM memory, 2133MT / s, DR, x4, BCC
    - (1) 600GB, 10K RPM SAS 6Gbps, 2.5in Hot-plug Hard Drive, 3.5in HYB CARR
    - (2) Network deInterface Board Intel® i350 1GB Four doors
    - (1) Emulex OneConnect OCe14102-U1-D Two Doors PCIe 10GbE CNA
    - (1) iDRAC8 Express, Integrated Dell Remote Access Controller
Case VDI

• 1 Server for Windows Server 2012 for File Server
  – Configuration
    • 1 Dell PowerEdge R530 Server - **Turned storage with FreeNAS**
    • (1) Intel® Xeon® E5-2609 v3 1.9GHz, 15M Cache, 6.40GT / s
    • 8GB RDIMM memory, 2133MT / s, DR, x8, BCC
    • RAID 5 for Parent H330 / H730 / H730P 3-32 HDDs
    • PERC H730 RAID controller, 1GB NV Cache
    • (4) 600GB, 10K RPM SAS 6Gbps, 2.5in Hot-plug Hard Drive, 3.5in HYB CARR
    • (1) Network deInterface Board Intel® i350 1GB Two doors
    • (1) Emulex OneConnect OCE14102-U1-D Two Doors PCIe 10GbE CNA
    • (1) iDRAC8 Express, Integrated Dell Remote Access Controller
Case VDI

• Current scenario VMS
  – 1 VM Server CentOS 7 File Server / Samba4 + GPO
  – 1 VM Server CentOS 7 Data Base Postgres
  – 1 VM Server Windows 2012 / ERP applications
  – 15 VM's Windows 7 x64

• Current scenario VDI
  – 15 VM's Windows 7 x64
  – 450GB virtual disk desktop's virtual
  – 60GB used virtual memory
  – Web Portal
  – Future client's connects using Sample user portals
THANK YOU!

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http://lists.ovirt.org/mailman/listinfo/devel

crsesilva AT fedoraproject DOT org
crsesilva AT #ovirt (irc.oftc.net)