Agenda

- Citrix and VMware basic concept

- Virtualizing Citrix Presentation Server
  - Performance comparison
  - LiveDemo

- VMware / Citrix Desktop Virtualization
  - Remote Desktop Broker
  - LiveDemo
Citrix Access Suite Components

- Presentation Server
  - Data Store, Data Collector,
  - Summary Database
  - Web Interface & Secure Gateway
- Access Gateway & Access Control
  - Database Server, Agent Server, Web Server, HTML Preview Server, Index-Server
- Password Manager
  - Central Credential Store Password Manager Service
- License Server

VMWORLD 2006
Default Citrix Environment

- Internet Extranet
  - Web Browser
  - ICA Client
  - Access Client

- DMZ
  - Secure Gateway & Web Interface

- Web-based Access
  - Access Control

- Application Server
  - Presentation Server farm

- Backend Systems & Services
  - MainFrame ERP
  - Portal CRM MIS
  - E-Mail Collaboration
  - Active Directory and Certificates (CA)

VMWORLD 2006
Consolidation of Citrix Components

**Benefit:**
High Availability and Load Balancing for you Citrix components using VMware DRS and HA

- Citrix Presentation Server
- Access Control
- Database
- ...
Citrix and Citrix on VMware
a performance comparison
What has been tested?

- Citrix performance on a physical HP DL585
  - 4 AMD Opteron 875 dualcore, 32 GB RAM
- Citrix performance on a single proc VM
  - Running on ESX Server 2.5
  - Running on ESX Server 3.0
What have we been looking for?

- Number of users and cpu load on a physical Citrix server running a specific load script
- Number of users and cpu load in the Citrix VM running the same load script
Test Hardware

- HP Proliant DL 585
  - 4 AMD Opteron 875 dual-core cpus 2.2 GHz
  - 32 GB RAM
- Native
  - Windows Server 2003 Enterprise Edition
  - Citrix Presentation Server 4.0
- ESX Server
  - ESX Server 3.0
  - Windows Server 2003 Enterprise Edition
  - Citrix Presentation Server 4.0
Test Setup

- Load on the servers was generated using a Citrix client script to fire up multiple ICA sessions to the Citrix servers.
- Script ran in a loop and was timed from launch to end of execution.
- During the test we looked for a significant and sustained deviation in script execution time to determine max load.
- We also looked for the point where performance was not consistent in a control session (this is one key factor in perceived performance of a solution). During the test we kept a session open on the targeted server and used it to open web pages and apps.
- Testing order:
  - Citrix on physical HP DL585 hardware
  - Citrix on ESX Server
Test Results (CPS on DL585)

- No. of users running
- CPU utilization

Number of Active Users

CPU Utilization (%)

Elapsed Time (h:mm)

VMWORLD 2006
Test Results (CPS in VM on DL585)
Scalability
Live Demo
Virtual Desktop Infrastructure

Client Device (Thin Client or PC)

Virtual Infrastructure

Citrix ICA Protocol

Published Application

Citrix Presentation Server

VirtualCenter Server

Windows XP Remote Desktop

ESX Server
Citrix Remote Desktop Broker

- Integrate Windows XP Desktops into your Citrix Presentation Server Environment
- Easy deployment and user management for Windows XP desktops
Live Demo
Windows XP Properties

Application Location

Application Type:
- Application
- Desktop
- Content

This application type grants users access to an application installed on your servers.

Enter the command line for the application you want to publish. You can also specify a default working directory for users.

Command Line:
C:\Program Files\Citrix\Remote Desktop Broker\Session Manager\Session Manager.exe? Demo

Working Directory:
C:\Program Files\Citrix\Remote Desktop Broker\Session Manager

Remote Desktop Broker for Citrix Presentation Server™

Desktop: user1.bangalore.company.com
Username: user1
Password: [masked]
Domain: ITNETWORK

Connect  Cancel
Questions?

deuteneuer@vmware.com  thuber@vmware.com
Recommended Sessions

- MED0096 - Citrix and VMware: A Range of Customer Solutions, Paul Hahn, Citrix
- MED0115 - Optimizing Citrix Presentation Server on VMware ESX Server, Paul Hahn, Citrix
- MED9518 - Virtual Desktop Infrastructure: How to use VMware ESX Server to Consolidate Desktops, Russel Wilkinson, VMware
Please remember to complete your **session evaluation form** and return it to the room monitors as you exit the session.

The presentation for this session can be downloaded at [http://www.vmware.com/vmtn/vmworld/sessions/](http://www.vmware.com/vmtn/vmworld/sessions/)

Enter the following to download (case-sensitive):

- **Username:** cbv_rep
- **Password:** cbvfor9v9r
Some or all of the features in this document may be representative of feature areas under development. Feature commitments must not be included in contracts, purchase orders, or sales agreements of any kind. Technical feasibility and market demand will affect final delivery.