Citrix and VMware How These Technologies Work Together

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### 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**







Data St



Data Collector/ Primary FMS



Summary Database



Backup Data Collector/Backup FMS



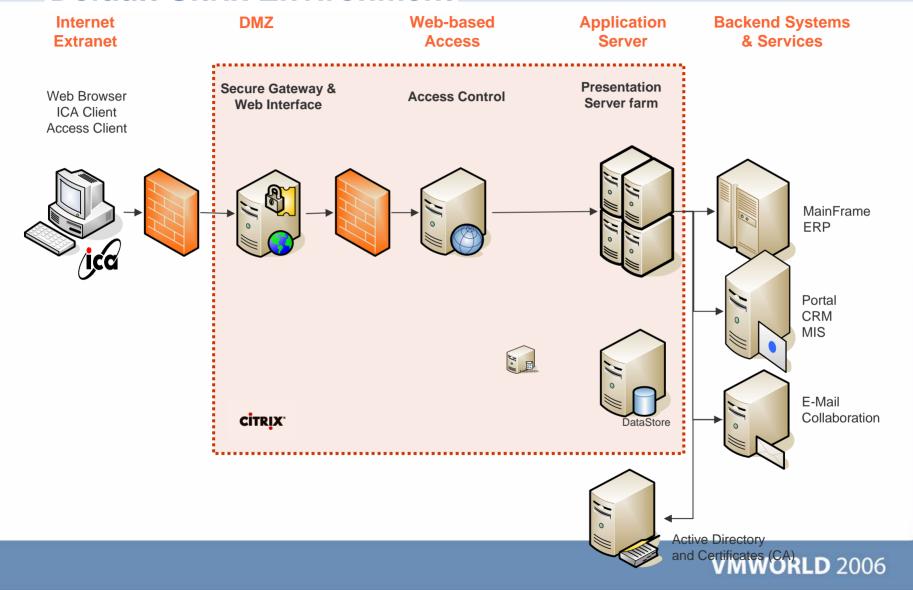
Database Connection Server



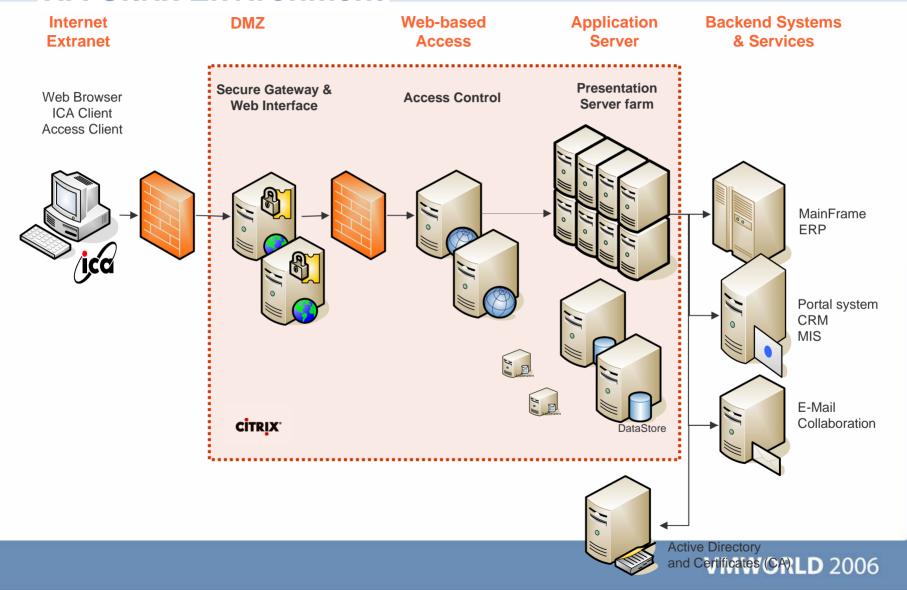
- Presentation Server
  - Data Store, Data Collector,
  - Summary Database
  - Web Interface & Secure Gateway
- Access Gateway & Access Control
  - Database Server, Agent Server, Web Server, HTML Preview Server, Index-Server
- Password Manager
  - Central Credential Store Password Manager Service
- License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



#### **Default Citrix Environment**



#### **HA Citrix Environment**



### **Consolidation of Citrix Components**

**CSG** 

License Server

Access Control
Citrix Presentation Server

Database

Internet
Extranet

DM2

Web-based
Access
Server

Backend Systeme
& Services

Server

Meb Browser
ICA Client
Access Client

Present along
Server

Server

Meb Browser
ICA Client
Access Client

From ERP

Portallystem
CRM
Mile Come

Refer

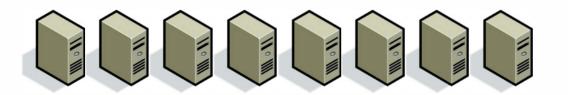
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Server

Active Directory
Zentificated on a CA



#### VMware HA & DRS



#### **Benefit:**

High Availability and Load Balancing for you Citrix components using VMware DRS and HA 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
  - > Runninng 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

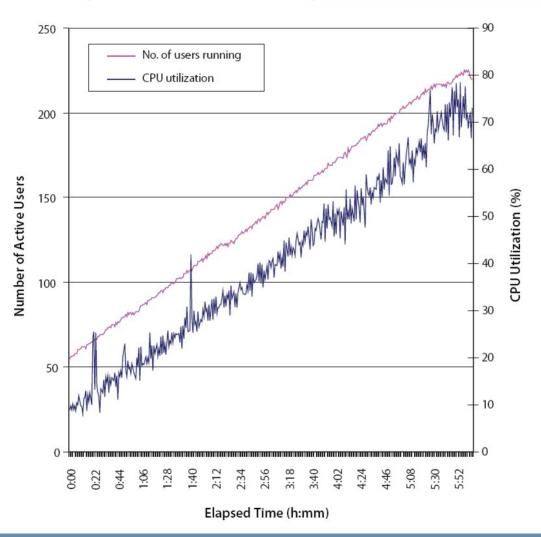
#### **Test Hardware**

- 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

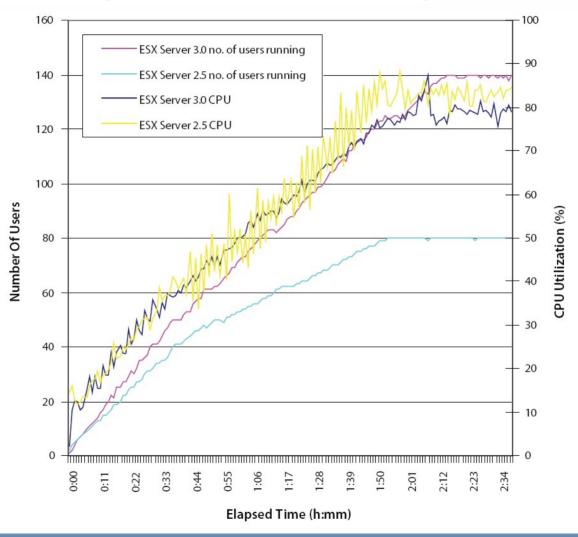
### **Test Setup**

- 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 consitent 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

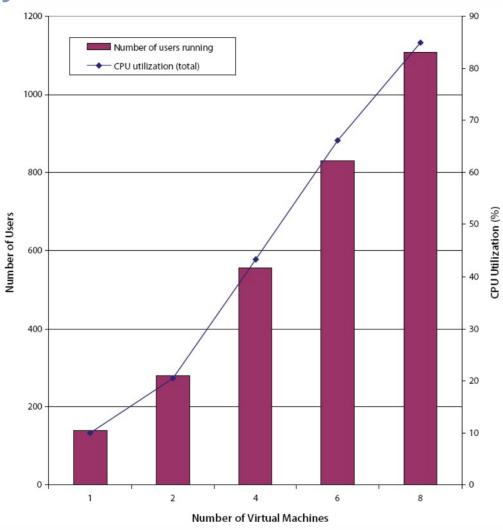
# Test Results (CPS on DL585)



# Test Results (CPS in VM on DL585)

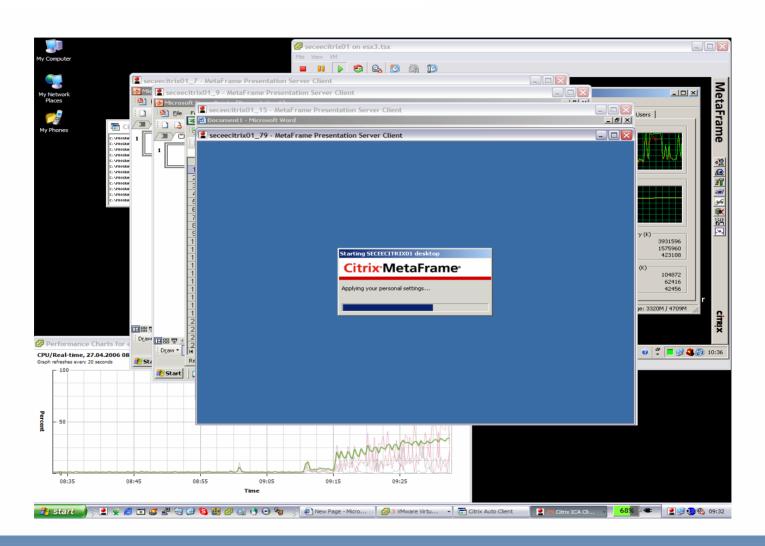


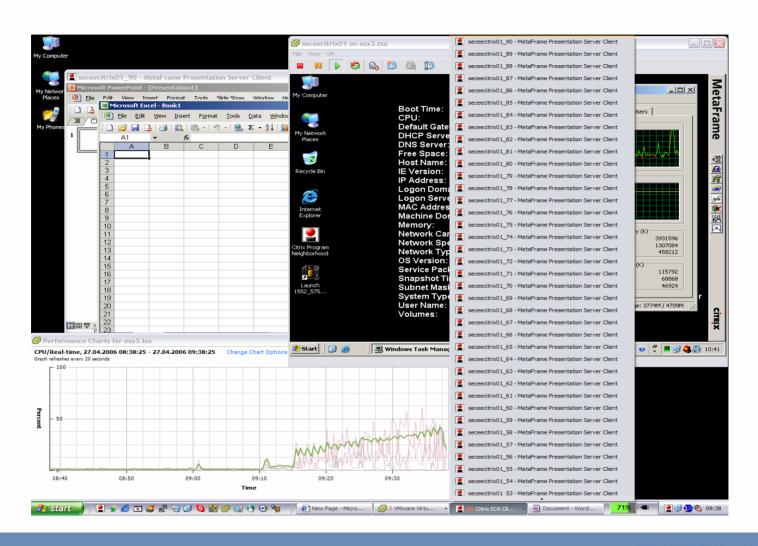
# Scalability

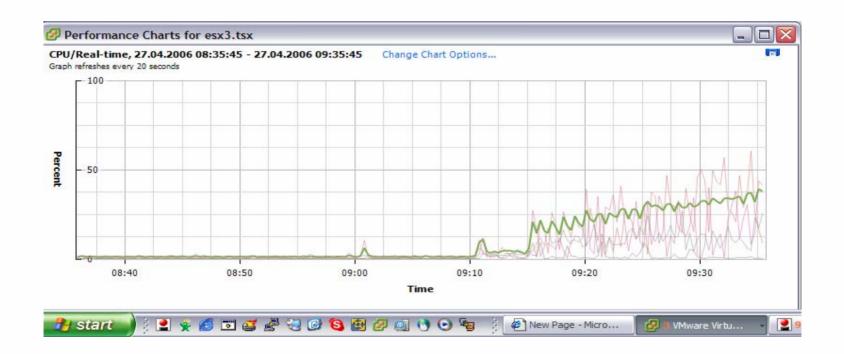


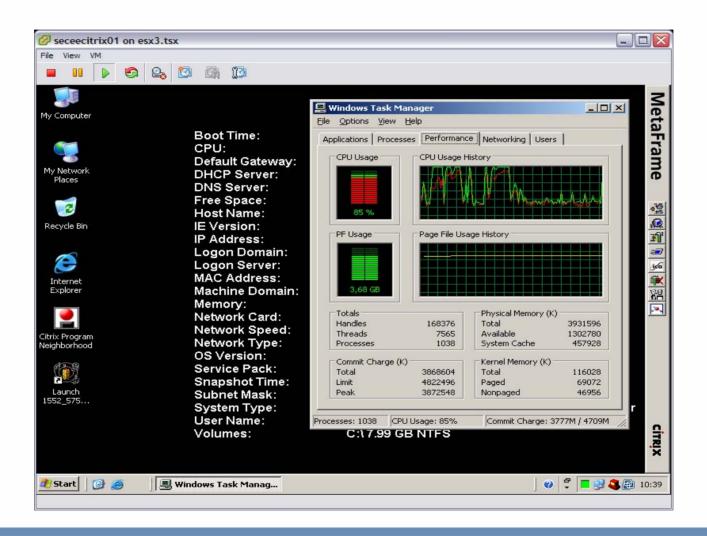
Live Demo

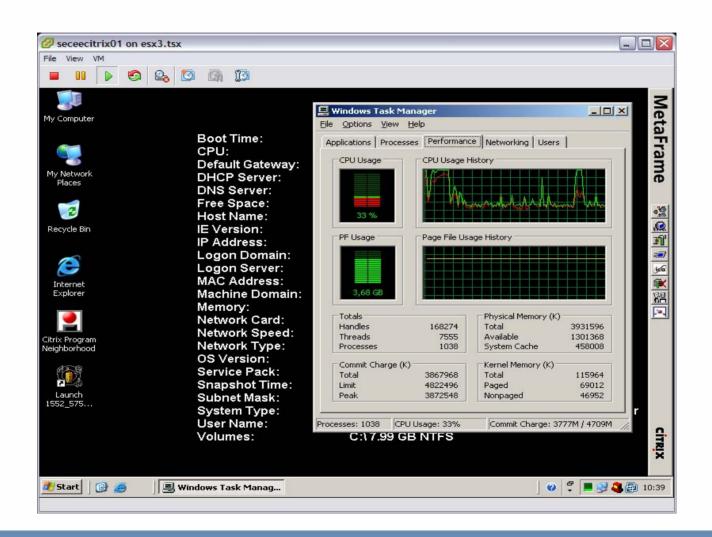


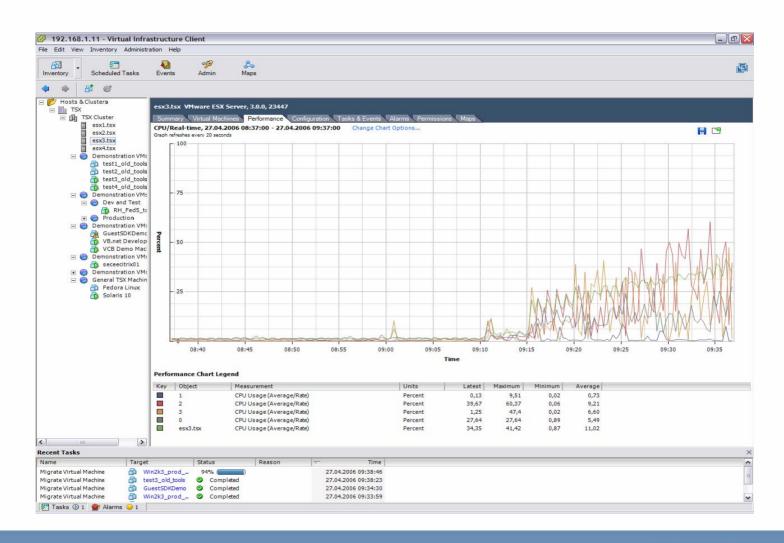


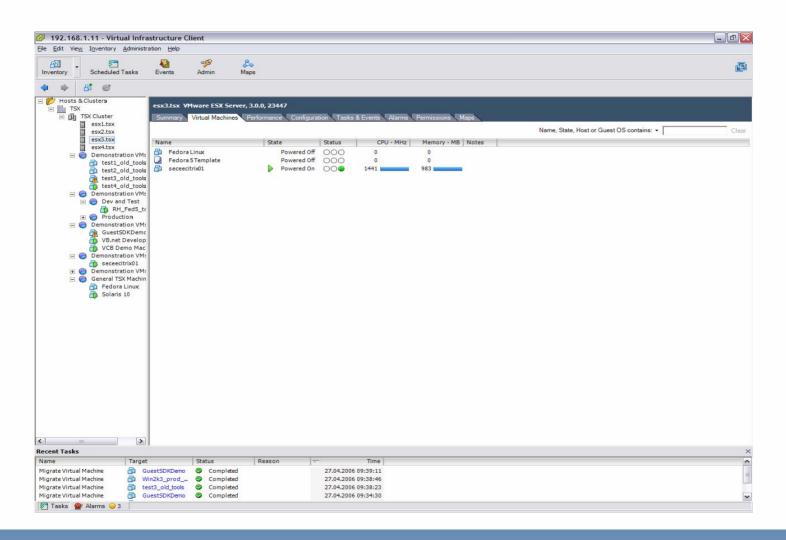








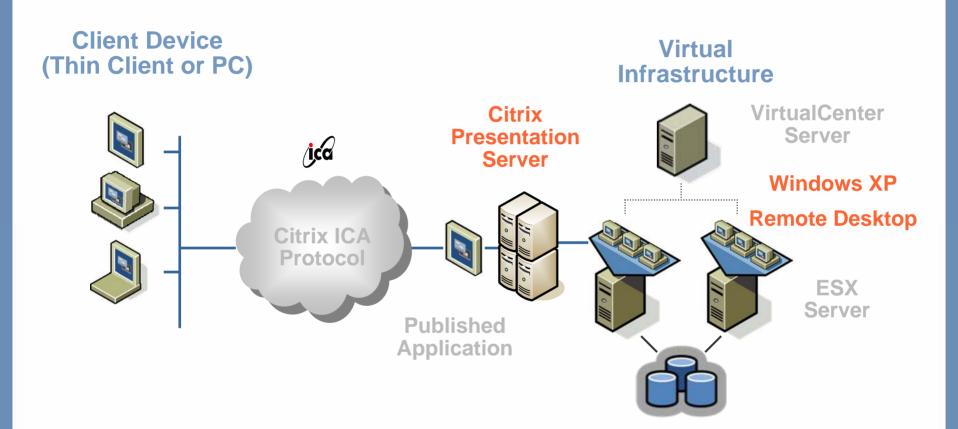




VMware / Citrix Published Desktop Usage and Deployment



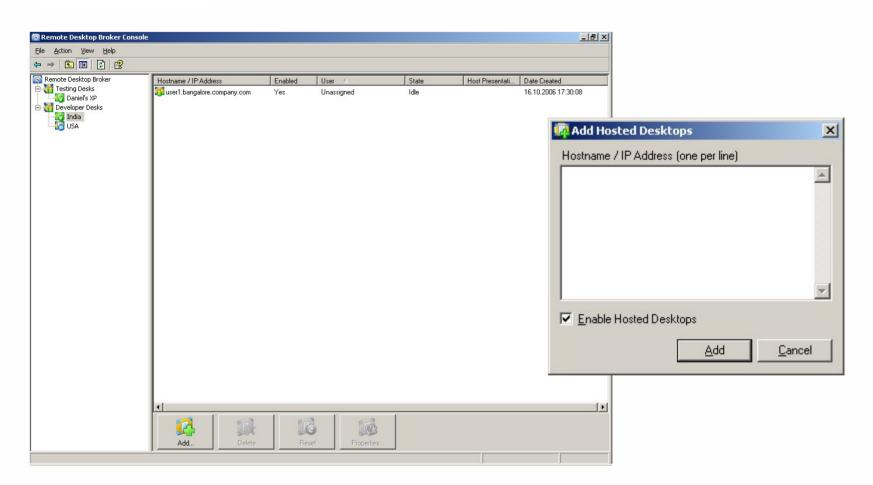
### Virtual Desktop Infrastructure



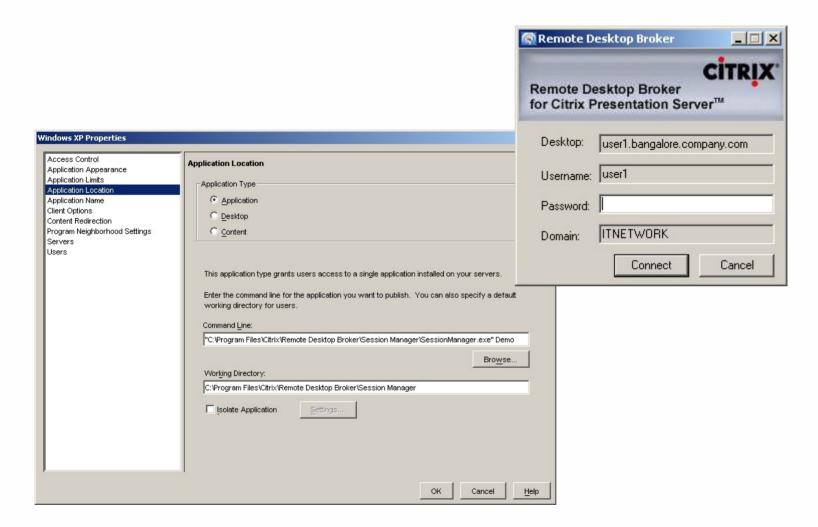
### Citrix Remote Desktop Broker

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

#### **Live Demo**



#### Live Demo



Q&A

Questions?

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#### 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

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