VMware ThinApp
Application Virtualization Made Simple

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Agenda

- VMware’s Vision
- Why Application Virtualization?
- ThinApp
- ThinApp Specific Features
- ThinApp Deployment Scenarios
- ThinApp What’s New?
- Summary
- Demo
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VMWARE VISION
Vmware’s General Vision

Transformation From Head to Toe

- **Pcs**
  - **Access**
  - **Existing Apps**
  - **Infrastructures**
  - **Servers**

- **Mobile Users**
  - **Applications**
  - **New Apps & Big Data**
  - **Clouds**
VMware’s End User Computer Vision

**User**
- Anytime, Anywhere Access
- Support for Multiple OSs & Apps
- Federated Collaboration
- Access From Any Device

**IT**
- Drive to Reduce IT Costs
- Security and Compliance
- Business Continuity
- Green IT

Freedom

Control
WHY APPLICATION VIRTUALIZATION?
Disruption Driving Virtualization

Application Migration from Windows XP

Mergers And Acquisitions Forcing Consolidation of Application Environments

Decentralized Workforce Requires Agility and Mobility

Reduce IT Costs and Maximize Utilization of Assets
Application Management Challenges

Addressing application requirements while maintaining manageability & reducing costs

- Application deployment to local and remote sites
- Testing / regression testing of growing number of apps
- Application conflicts
- Multiple user profiles require multiple versions of the same application
- Mobile workers require applications flexibility
- Helpdesk support load reduction
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VMWARE THINAPP
- Virtualization breaks the bond between each layer
- Allows IT to manage each layer separately
- Users can pick HW and apps while still locking down desktop
- Supports server hosted desktops and PCs
Features
• Decouple applications and data from OS
• Agent-less architecture
• Wide platform and application support
• Plug into existing application management tools

Benefits
• Enable OS migrations and streamline application patch updates
• Enable application mobility and flexibility of access
• Minimize the number of desktop images managed
• Eliminate application conflicts
• Enable the use of multiple versions of applications
Benefits

Agentless architecture
- Single file - EXE, MSI
- No installation or changes to registry
- Zero management required on end point device

Seamlessly fits into any environment
- No streaming server hardware or software needed
- Plugs into any existing management framework

Run Virtually Any Application from Any Device
- Desktop, USB, flash, terminal services, Citrix
- Any windows application - simple to complex
- Supporting components can be run side by side (java, .NET)

Ensuring security without compromising user flexibility
- User-Mode execution
- Virtual Registry protects underlying host OS
- No device drivers installed on underlying OS
How ThinApp Works

Vmware Thinapp Links the Application, Virtual Operating System (VOS), File System and Registry into a Single EXE MSI File

- Application encapsulation and Isolation
- Intercepts file and system calls
- Process Loading - start exe from VOS, Launch from host OS (Virtual/Physical)
- DLL Loading loads DLL dependencies the EXE/DLL/OCX files from archive
- Thread and process management. VOS tracks all processes and threads inside virtual registry (COM & Utility)
Eliminating Application Conflicts

Problem:
Tightly coupled relationships between OS, Applications and Data

Symptoms:
- Application Conflicts
- Complex Compatibility Test Matrices
- Diminished Time to Deployment
- Loss of User Productivity
- Increased helpdesk support calls

Solution: VMware ThinApp
- Agentless application virtualization decouples applications and data from the OS

2009, 2010, 2012 Reader’s Choice Award From Virtualization Review
VMware ThinApp Streamlines the Application Life Cycle

**Develop**
Custom in-house apps, 3rd-party/vertical solutions and commercial apps.

**Package**
Apps inside EXE and MSI files with no source changes.

**Test**
Apps against desktop Images and other apps with real-time diagnostics.

**Access**
Apps locally or over a network on PCs, thin clients and removable media.

**Deploy**
Apps using existing management tools and infrastructure.

**Upgrade or Patch**

**IDC TCO Survey**

- Save up to **60%** on Patching, upgrading and supporting applications
- Save up to **80%** on packaging and deploying applications
- Save **50%** on application testing and Provisioning
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SPECIFIC FEATURES
Application Sync - Update ThinApp Packages

Manage Mobility with Ease
- Manage applications in the extended enterprise: Partners, Subsidiaries
- Ship only what they need, when they need it

Enable Workforce Mobility
- Flexible delivery to a variety of devices (USB, Thin Client, PC)
- Conflict free application updates for unmanaged PCs (WAN)

HTTP/HTTPS Byte Level Updates over WAN/LAN via Active Directory
Seamless Interoperability

- ThinApp packages can talk together and with OS
- Enables interoperability between virtual applications and underlying OS

Enhance License Management

- Reduces package size to ease deployment and delivery
- Enhances software license management tracking via current inventory tools
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DEPLOYMENT SCENARIOS
Seamlessly Fits into Existing Framework

Deliver ThinApp Packages from Same System as Natively Installed Applications (MS, BMC, HP, CA)

Easily plugs Into any existing Management console

Variety of endpoints
ThinApp Deployment Scenarios

Network Share

Deliver Applications to Multiple User Profiles From a Single Network Share

Reduce Server “Silos”

Deploy Multiple Versions of an Application Packaged by Thinapp on Application Servers to Be Served Up to End Users Without Any Conflicts

USB Device

Enable Workforce Mobility And Flexibility Without Compromising Security
ThinApp from Network Share

Reduce Application Images Simplify Management

- Deliver applications to multiple user profiles from a single network share
- Application data stored in separate sandbox areas to ensure full isolation
- Full application isolation eliminates conflicts on end points reduces helpdesk calls

File Server “Network Share”
Enterprise software Licenses
ThinApp with Citrix - Reduce Server “silos”

**Improved Utilization and Streamlined Management**

- ThinApp single files are not installed - no changes to OS
- Full isolation allows for multiple versions of the same application or multiple applications to reside on the same server to be streamed to end point devices
- Single image files fit into existing management framework
Enabling Mobility without Compromising on Security

- Run applications from USB devices on any end point
- User-mode only execution allows for deployment on locked-down PCs
- End users can continue with their activity with their favorite applications
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THINAPP WHAT’S NEW?
IE 6 Virtualized on Windows 7
Full support for Internet Explorer 6 and its legacy apps deployed on Windows 7

Startup Service Support
Support to virtualize startup or helper services

ThinDirect
Web pages for native and virtualized browsers automatically handled for proper display

ThinApp Factory
Mass conversion of silent MSI’s to ThinApp projects and packages

Application Assignment in View/Horizon Manager
Assign ThinApp packages to one desktop or pools of desktops
Full Internet Explorer 6 Support on Windows 7

- Easily create IE6 packages
- Easy deployment into newer operating systems
- Run IE6 on both 32-bit and 64-bit systems
- Run IE6 side-by-side with native IE
- Run different versions of components (Java, .NET/ActiveX, Flash, etc.) in separate IE6 packages on same Win 7 system
- No more “Web App Hell”!
ThinDirect - Native Browser Redirect

- URL Associated Browsers.
  - Users no longer need to know which web pages and apps require IE6
  - Users can utilize native browser and virtual browser will appear when necessary
  - Virtual browsers work for admin or user defined URLs
  - Native browsers pick back up once user is done (a.k.a. "FatDirect")
- Works with multiple browsers
  - All versions of IE
  - Chrome
  - Firefox
  - Opera
  - Safari
- Admin controlled URLs via GPO
  - Computer Configuration
  - User Configuration
Startup Services Support

- ThinApp has long supported virtualizing services
- Services could be made entry points, entry points could manually be made startup services natively
- Startup services now easily virtualized and configured automatically
- Apps requiring lengthy service starts (which, natively happen during bootup), can now have virtualized services start at bootup
- Apps with “helper” services start quickly to give user native or “better-than-native” app experience
**ThinApp Factory**

Released as a Fling!

### Automated Application Conversions

- Auto import of installation repository
- Mass conversion of silent MSI’s to ThinApp projects and packages
- Can apply packaging settings to groups of applications – easy convert and manage settings

### Customer Benefits

- Dramatically reduce the conversion time
- Allows customers to save ThinApp settings for easy updates of packages
- Scalable for customers, professional services and partners
Application Assignment in View Manager

Desktop Service

App Catalog Service

Data Service

VMware View Architecture

- VMware vSphere
- VMware View Manager
- VMware View Composer
- VMware View Clients
- VMware ThinApp

SIMPLIFY

MANAGE

CONNECT
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SUMMARY & MORE INFORMATION
Package Once, Deploy Everywhere
Benefits

Business Advantages

- Quick to deploy – weeks to days
- Demonstrable ROI in days
- Little to no risk – Evaluation to operational. It just works!
- 40% of View customers deployed ThinApp

Technical Advantages

- No clients to install and maintain
- No expensive server software and hardware required
- Simply plugs into any existing ESD framework
- Standard formats (.MSI, .EXE) and SDK – Easily integrates into any existing process
More Information

ThinApp

ThinApp Product Homepage - 60 days eval download
http://www.vmware.com/products/thinapp/

ThinApp Blogs
http://blogs.vmware.com/thinapp/

Community

ThinApp Communities Forum & Contribution Portal
Find “recipes” of applications that have been virtualized
http://communities.vmware.com/community/vmtn/desktop/thinapp
Thank You!