

# Windows XP til Windows 7

Værktøjer

# Agenda

## Værktøjer:

- Hvordan kommer vi nemt til Windows 7 ?
- Indbyggede værktøjer i Windows 7/ Server 2008 R2
- Microsoft Deployment Toolkit 2010 RC
- System Center Configuration Manager SP2
- Microsoft Desktop Optimization Pack 2009
- Opsummering



Hvordan kommer vi  
nemt til Windows 7?

# Vejen til Windows 7



# Hvordan kommer vi nemt til Windows 7

## Mål:

- Vi skal have opgraderet alle vores eksisterende XP/Vista maskiner.
- Vores brugere skal have adgang til alle deres applikationer efter migrering.
- Vores brugere skal have adgang til alle deres data efter migrering
- Vi vil have en OSD process vi kan genbruge med præcis samme resultat hver gang.

# Hvordan kommer vi nemt til Windows 7

## Forudsætninger:

- Konsistent / Automatiseret / Gentagbar/Dynamisk process
- Integret med eksisterende processer til udrulle applikationer og opdateringer.
- Designet til at udrulle nye operativ systemer HURTIGT
- Et image pr. Operativ system

## Hvilke værktøjer kan klare disse krav ?

- Microsoft Deployment Toolkit (MDT) 2008 / 2010 (RC)
- ConfigMgr 2007
- Altiris



Indbyggede  
værktøjer i Windows 7/  
Server 2008 R

# Bygge klodserne

## IMAGING



Deployment  
Image Servicing  
and Management  
(DISM)

Tilføj/fjern drivere og pakker

WIM og VHD Image  
Management

## LEVERING



Windows  
Deployment Services  
(WDS)

Multiple Stream Transfer

Dynamic Driver Provisioning  
VHD og WIM Support

## MIGRERING



User State  
Migration Tool  
(USMT)

Hardlink Migration

Offline File Gather

Forbedret fil genkendelse

# Hvad er der i WAIK 2.0 ?

WAIK TOOLS	
Tool	What it does for You!
Deployment Tools Command Prompt	Kommando prompt der sætter den korrekte path til alle tools I WAIK 2.0
Imagex	mount, unmount, clean, fjern og pålæg images
Deployment Image Servicing and Management (DISM)	mount, unmount og administrerer images , tilføj/fjern software og drivere fra et image
OSCDIMG	Byg en .iso fil udfra en folder
Windows System Image Manager (WSIM)	GUI til at bygge svarfiler (setup scripts) i .xml format
User State Migration Tool 4.0 (USMT 4.0)	Migrering af brugerens profiler, settings og filer
Volume Activation Management Tool 1.2	Kontrol over Volume Activation
CopyPE	Byg din egen Windows PE Boot CD/DVD

# Hvad er Windows PE?

- Nedskaleret version af en Windows 7 Kernel
  - Tænk på det som en Windows 7 lillebror ☺
- Booter ind i og kører fra RAM (Minimum 512 MB ram)
  - X: bliver mappet som default
- Kan ikke bruges til hverdags brug, eller driftsopgaver
  - Rebooter hver 72 time
- Kun understøttelse af commandline, men notepad virker fint ☺
- Kan laves til en .ISO og placeres på:
  - CD, DVD, USB Flash drev
- Du skal bruge en maskine til at lave Windows PE på

# DISM

- Supporterer kun Vista SP1 og senere
- Mount / unmount .wims
  - (no capture eller apply feature)
- Tilføj / Fjern 3 parts device drivers
- Tilføj / Fjern language packs
- Enable / disable / configure Windows features(Online og Offline)
- Tilføj og konfigurer Windows updates
- Ændre Windows settings

# Demo DISM.EXE





Microsoft Deployment  
Toolkit 2010 RC

# MDT 2010

MDT 2010 er en større opgradering af MDT 2008

- Supporterer XP og opad, også server deployment
  - Litetouch, Zerotouch udrulning af Windows 7.
  - Indbygget understøttelse af WSUS
  - Task Sequences til automatiseret og nem udrulning
  - Færdige deployment skabeloner
  - Fuld understøttelse af automatisk diskryptering med Bitlocker
  - Driverhåndtering
  - Dokumentation af alt indbygget
  - Ikke længere support af SMS 2003
- MDT 2010 understøtter Windows 7 og Windows Server 2008 og de nyeste deployment tools:
- Windows Automated Installation Kit 2.0
  - Windows PE 3.0
  - USMT 4.0
  - Deployment Image Servicing and Management tool (DISM)

# MDT 2010 Fokus områder

## Deployment Workbench Architecture Enhancements

- Bedre understøttelse af administrative processer
- Support for mere end en bruger
- Nye scenarier med mere fleksibilitet

- Der kan bruges foldere over det hele
  - Drag-and-drop, copy-and-paste, cut-and-paste support
- Udvidede brugs scenarier
  - Local, network, standalone DFS
  - Flere deployment shares, Flere brugere
  - Kopier imellem deployment points
- Replikering
  - Lav “linked deployment shares” til replikering
  - Kontroller hvad der replikered med selection profiles

# MDT 2010 Fokus områder

## PowerShell Capabilities

- Nemmere at Automatisere
- Nemmere at udvide
- Microsofts platform fremadrettet

- Fuldstændig PowerShell support
  - Alt hvad du kan lave i GUI, kan scriptes med Powershell
  - Drive provider for enumerating folders, items, and properties
  - Cmdlets der hjælper med at importere indhold, lave bootimages etc.

# MDT 2010 Fokus områder

## Task Sequence and Script Enhancements

- Bedre diagnosticering, fej log, og recovery
- Support deployment to any disk or partition

- Bedre diagnosticering og fejl logs
  - Mere specifikke fejl(istedet for bare succes/fejl)
  - Real-time logging direkte til et netværks share
  - Log indsamling
- Bedre håndtering af netværksfejl

# Demo MDT 2010





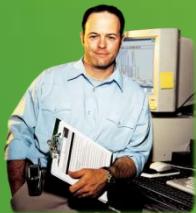
System Center  
Configuration Manager  
2007 SP2

# System Center Configuration Manager 2007



## Forenkling

- Forenklet administrativt bruger interface
- Avanceret Task Sequencing
- Større kontrol med scheduling og nu med Wake-on-LAN
- Bedre Remote Administration
- Fælles processer for Windows Mobile og embedded devices



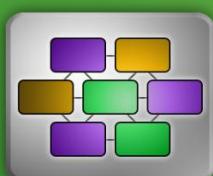
## Udrulning

- Ensartet leverance af Windows OS for klienter og servere
- Ét image at styre for XP/Server 2003/Vista/Windows 7/Server 2003/2008
- Bygget på Windows Vista teknologier, herunder Windows Imaging
- Vista og Office 2007 vurdering og løsningsplanlægning
- Offline media support



## Sikkerhed

- Integrerer med Windows Server 2008 Network Access Protection
- Omfattende software opdatering med skabeloner for typiske opgaver
- Sårbarhedsanalyse for virksomheden/r
- Sikker styring af devices over Internet
- Sikker opbevaring af bruger state under udrulning af OS



## Konfiguration

- Videns-drevet (ønsket) konfigurationsstyring baseret på System Definition Model (SDM)
- IT politikker for analyse af hvorvidt man er i compliance ift. IT politikker og ift. regulativer
- Internet baseret klient administration
- Licens og asset management

# Configuration Manager RTM : Features

## Admin UI Improvements

- Richer knowledge presented, less mouse clicks, stronger wizard guidance, deeper pre-req checks and deployment assistance

## Asset Intelligence

- Attach meaningful business terminology to inventory

## HW/SW Inventory

- Advancements in upgrade reports, virtual support and more

## OS Deployment

- Significant update, server support, multicast and unknown system support

## Software Update Management

- Broad integration across ConfigMgr features, built on WSUS, branch, internet based, OSD, DCM

## Network Access Protection

- Integration scenario support for Windows Server 2008

## Software Distribution

- Improvements to a core feature, new virtualization support

## Desired Configuration Management

- Model based, baseline definitions and regulatory support for system management

## Device Management

- Powerful support for CE, PPC, Windows Mobile devices

## SDK

- Now available, strong extension to core product

# Configuration Manager Service Pack 1: Features

## Windows Server 2008 Support

- Platform Support for planning, deployment and management of Windows Server 2008
- Support for Site Role infrastructure deployment to Windows Server

## Vista SP1 Support

- Platform Support for planning, deployment and management of Windows Vista Service Pack 1

## Asset Intelligence 1.5

- Major capability update
- Significant Admin Console Upgrades
- New Catalog and License support
- System Center Online synchronization support

## Intel AMT Integration

- Feature Integration with Intel vPro Technology

## Customer DCR

- Small Collection of Customer Design Change Requests

## Infrastructure to support R2 features

- Service Pack 1 download includes codebase for R2

## Hotfix Rollup

- Small Collection of hotfix and updates to rtm codebase

# Configuration Manager R2 Feature Summary

## Application Virtualization Management

- Seamless integration to Microsoft Application Virtualization

## New OSD capability

- Additions of Multicast and Unknown Computer Support

## Client Status Reporting

- Client summary rollup of key performance indicators

## SQL Reporting Services Integration

- Migration of ConfigMgr reports to robust reporting platform

## Forefront Client security integration

- Configuration Pack knowledge of the Forefront client status

# SP2: Nye Features

## Operating System Support Updates

- Windows 7
- Windows Server 2008 R2
- Windows Server 2008 SP2
- Windows Vista Sp2

## Site Role support for Windows Server 2008 R2

- Site role support for Windows Server 2008 R2

## Intel AMT Integration Enhancements

- OOB Wireless Management: Wireless Profile Management
- End Point Access Control: 802.1x support
- Persistent Data Storage: Non Volatile Memory or Third Party Data Store (3PDS)
- Remote Power Management: Power State Configuration from ConfigMgr Console

## Branch Cache Support

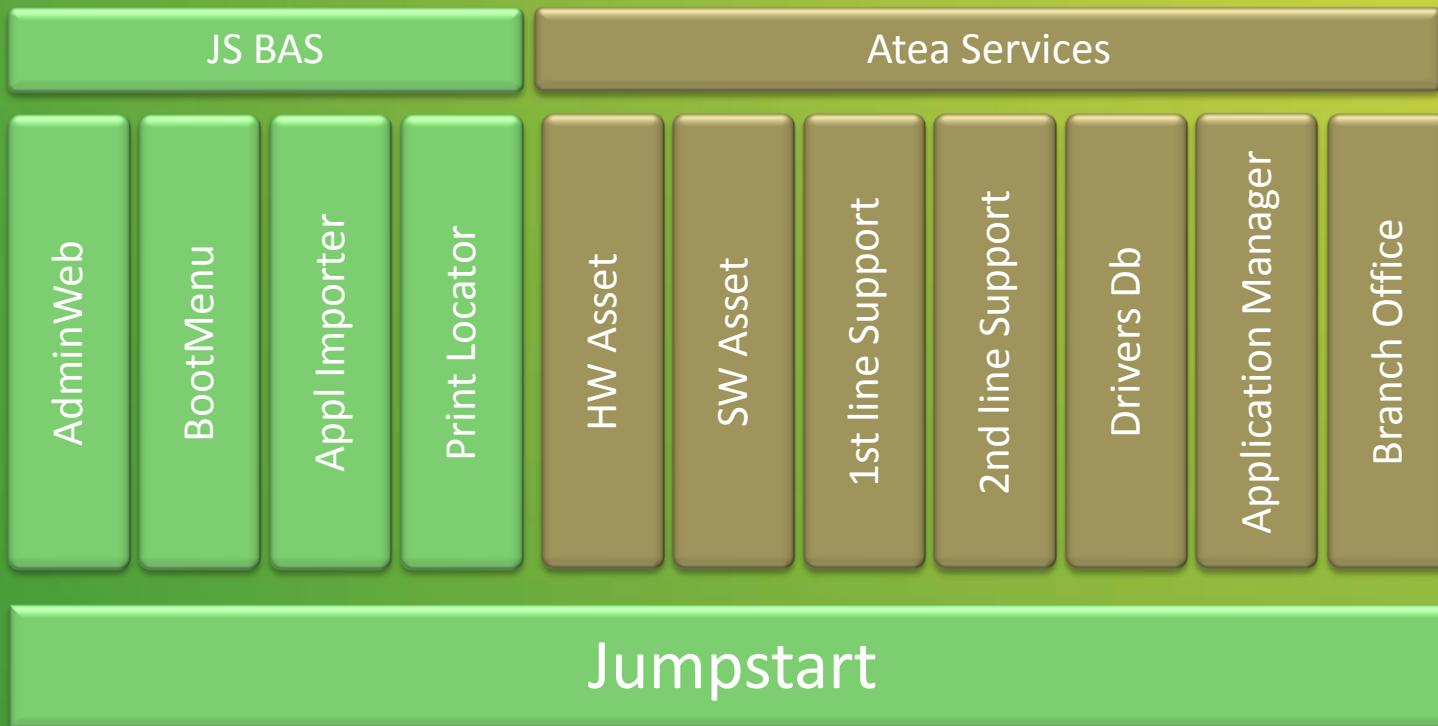
- Requires Win7 client and W2K8 R2 backend



Management

# Jumpstart

- Kickstart af standard infrastruktur
- Ekstra funktioner/programmer for at understøtte drift og administration
- Tilkøbsydelser for at aflaste drift og administration

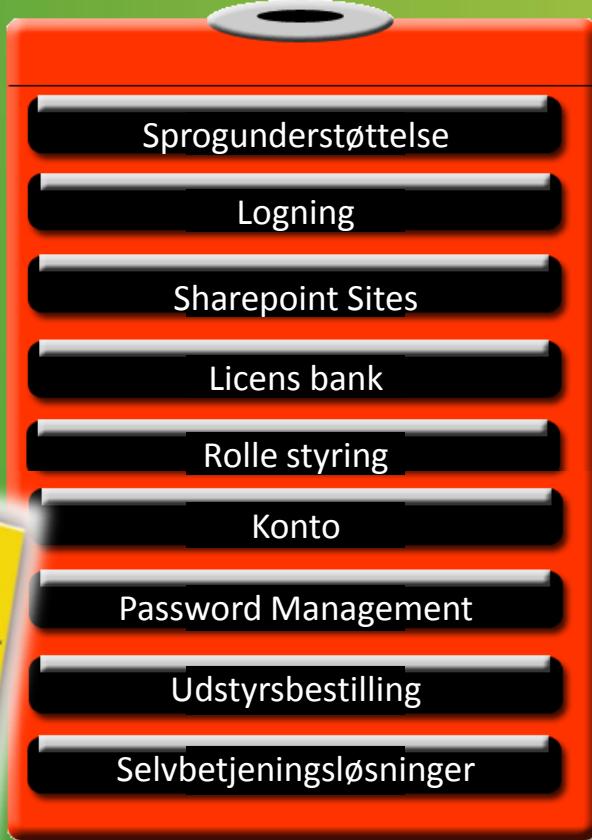


# Demo Jumpstart

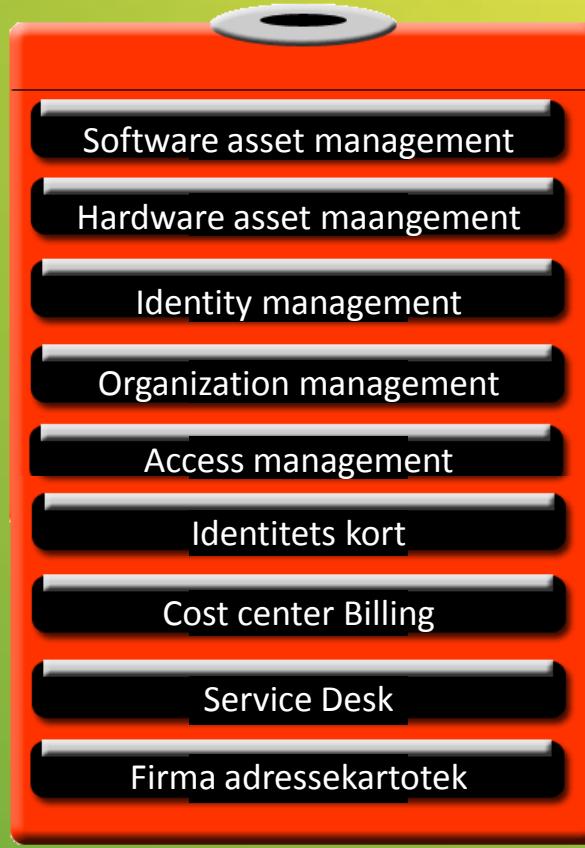


Spintop Accelerator 5.0

# Spintop Accelerator



Accelerator



Enablers

# Spintop Software Bestilling

The screenshot shows a software application window titled "Install software". The left sidebar has a green header "4ccelerator" and a menu with the following items:

- Order
- Manage
- Delete
- Settings

The main area is titled "Install software" with a question mark icon. It shows four steps: Step (1/4), Step (2/4), Step (3/4), and Step (4/4). Step (1/4) is highlighted. A sub-section titled "Search software" contains fields for "Choose category" (set to "Apple"), "Search all categories" (text input field), and a "Search" button. To the right are summary fields: "Cart:" (dropdown menu), "Total price: 0 kr", and "Total rent: 0 kr". Below these are buttons for "Show cart" and a shopping cart icon.

**Step (1/4)**

Before you can install a software, you need to search for it. You can search all categories or view all software in one category.

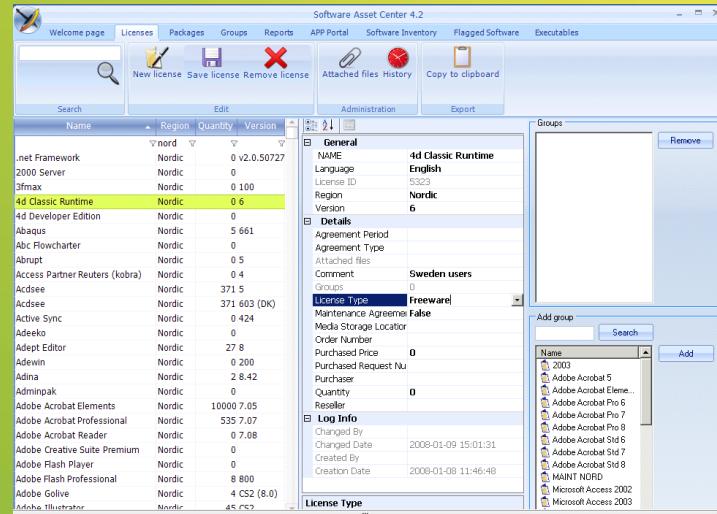
**Search software**

Choose category: Apple    Search all categories    Search    Show cart

Click for info	Name	Rent	Price	Delivery time	Category	Click to add to cart
	QuickTime 7.0.4 EN	0.00	0.00		Apple	Add to cart
	QuickTime 7.1.6.200 EN	0.00	0.00		Apple	Add to cart
	QuickTime 7.4.1.14 SE	0.00	0.00		Apple	Add to cart

# Spintop Compliance Manager

- Registrere købte licenser
- Sammenkoble information
  - Licensdistribution- anvendelse
- Rapporter
  - Besparelser
  - Compliance
- Afinstallation af ikke benyttet software

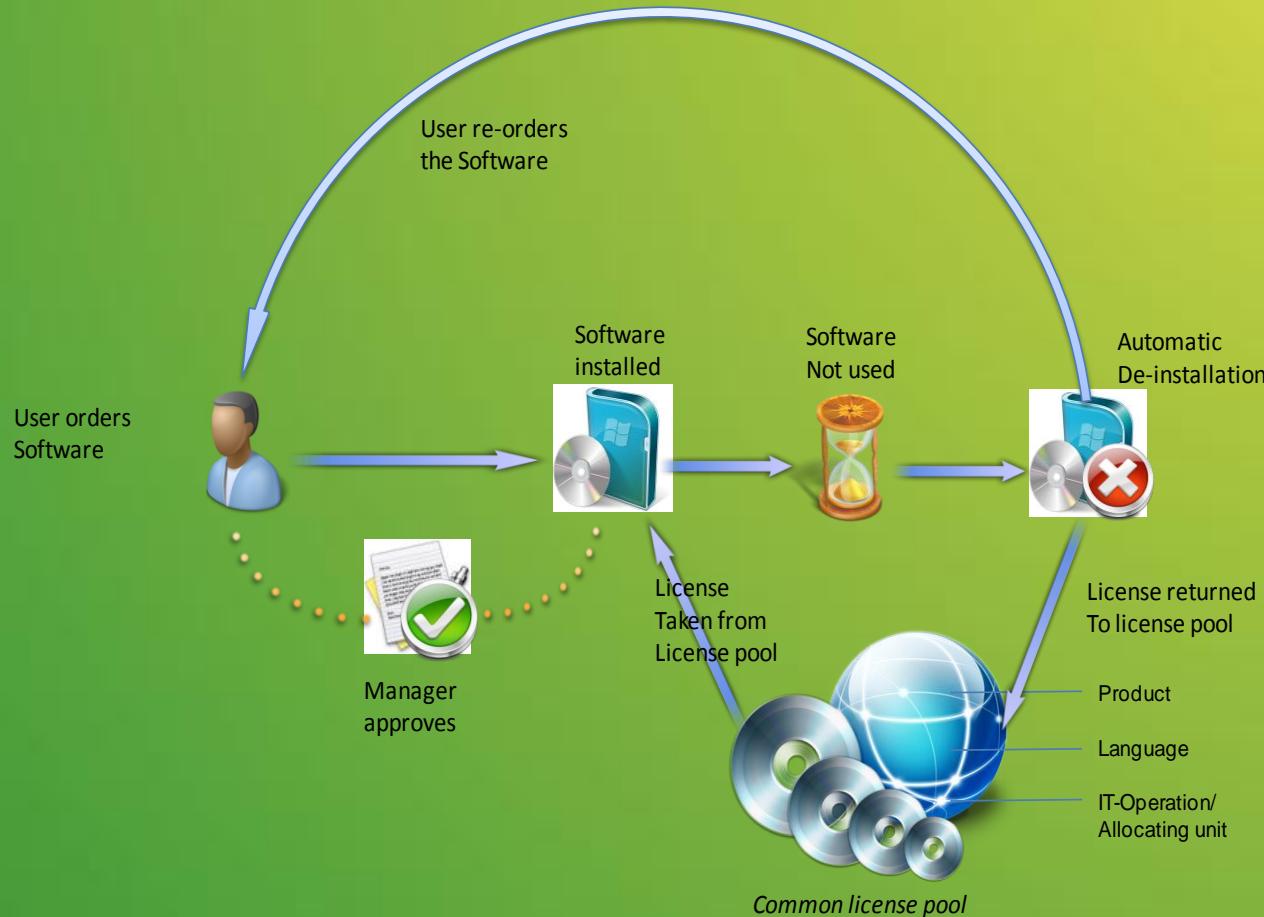


- Automatisk Inventory
  - Installeret software
  - Distribueret software
- Software metering
  - Software anvendelse



# Spintop Accelerator Licenses Bank

## Order of Software / License take back





Virtualisering med  
MDOP 2009

# Microsoft Desktop Optimization Pack

## Hvad tilbyder Microsoft Desktop Optimization Pack



Microsoft®  
Enterprise Desktop  
Virtualization



Microsoft®  
Diagnostics and  
Recovery Toolset



Microsoft®  
Asset Inventory  
Service



Microsoft®  
Application  
Virtualization



Microsoft®  
System Center Desktop  
Error Monitoring



Microsoft®  
Advanced Group  
Policy Management

### Microsoft® Desktop Optimization Pack for Software Assurance

#### 1 Hurtig ROI

- Løbende opdatering
- Hurtigere upgrade cyklus, separat fra Windows®
- Minimalt besvær i forbindelse med udrulning

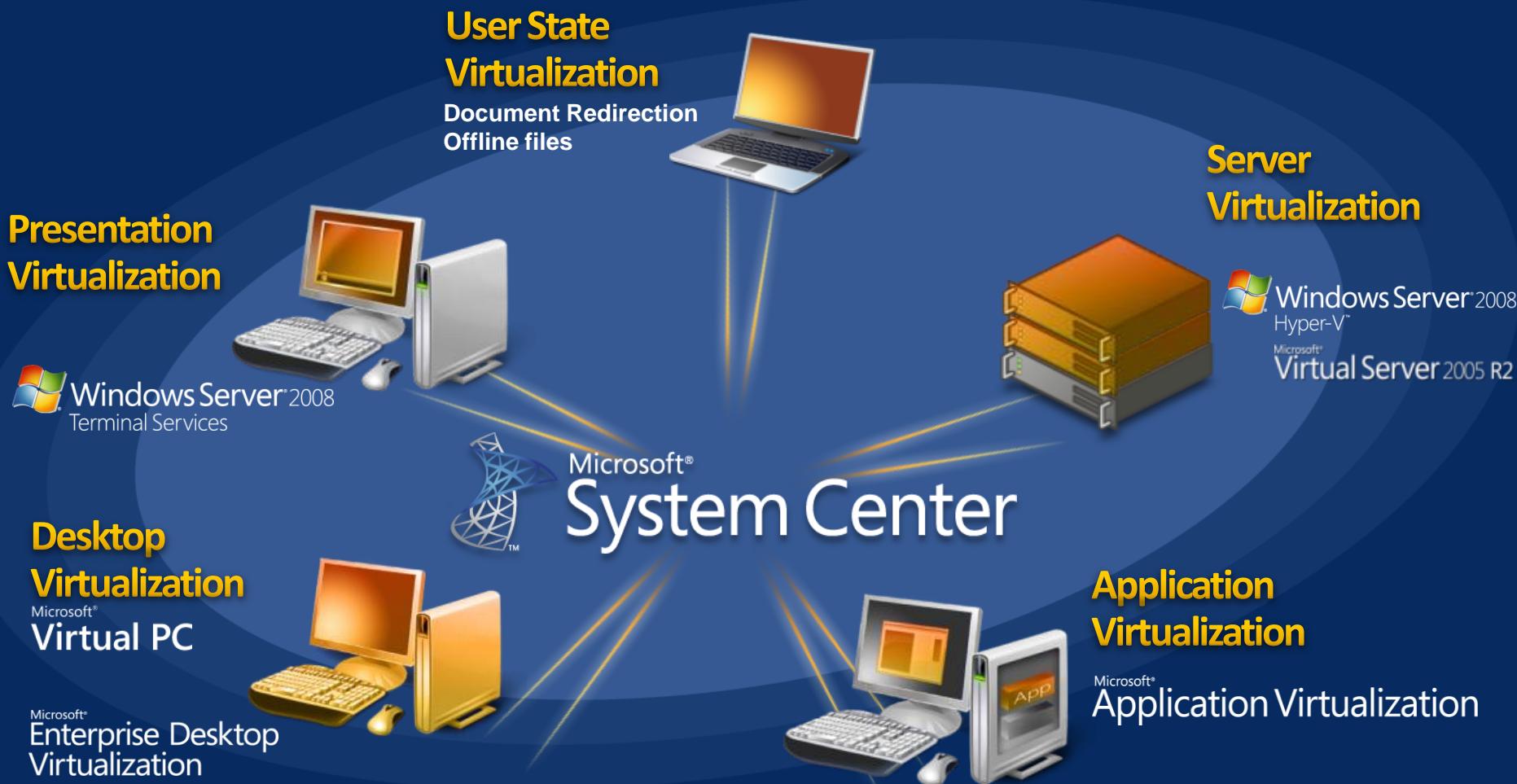
#### 2 Deliver end-to-end solutions

- Kører out of the box
- Integrate with existing management solutions

#### 3 Lower Desktop TCO

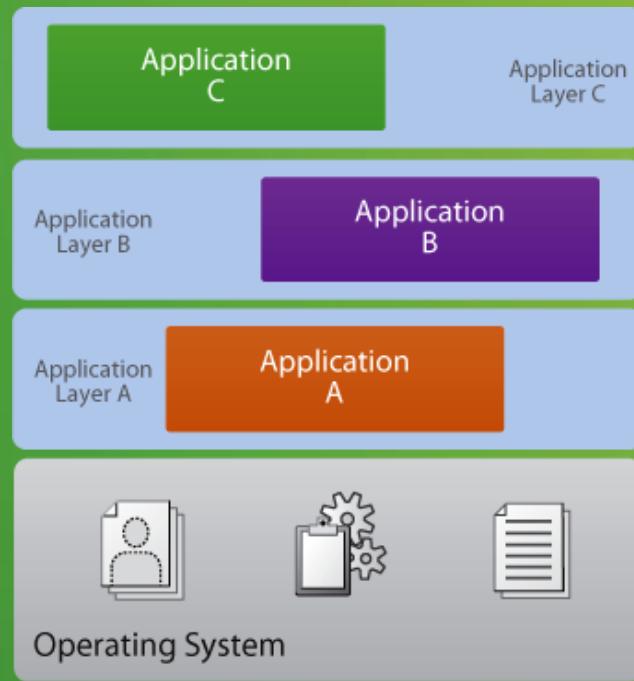
- >95% af MDOP kunder er “meget tilfredse”
- 350-400 kroner i besparelse pr. Pc per år.

# Microsoft Virtualising

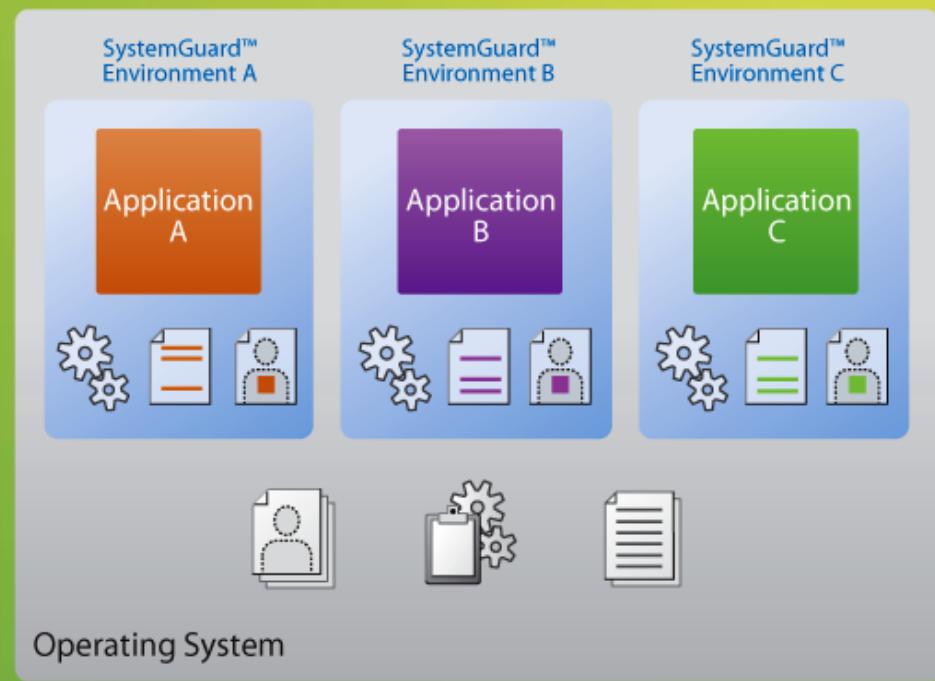


# Virtualisering af applikationen

Hvad vil konfigurations uafhængighed sige



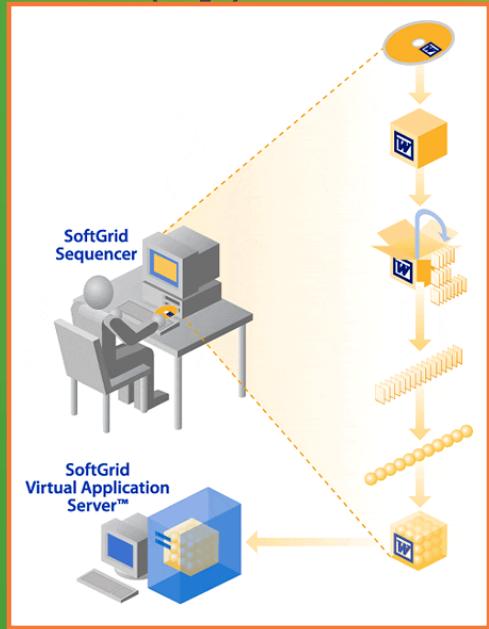
Traditionel lagdelt  
installation



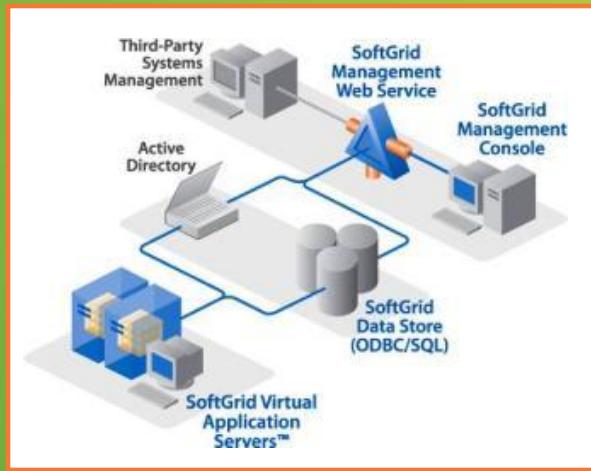
Isoleret virtuel  
applikationsmodel

# Microsoft Application Virtualization

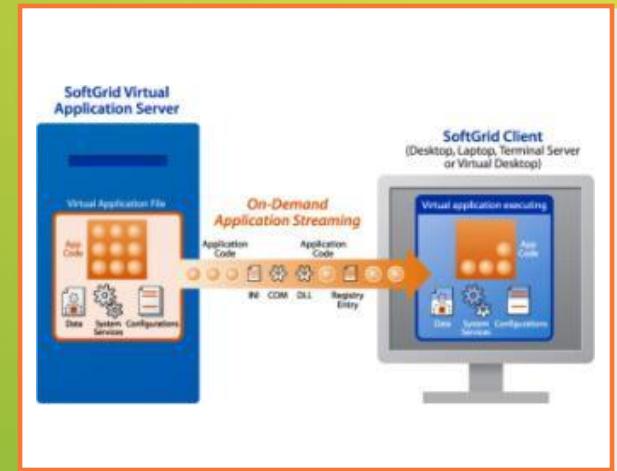
En (ny) måde at levere/"installere" en desktop applikation



**Sequencer** pakker  
applikationer til  
Application  
Virtualization applikation



Applikationer assignes via **Active  
Directory**. Mulig (hård) styring af  
licenser tildelt til applikationen



**Application Virtualization**  
**Streaming Server** leverer dynamisk  
streaming af applikation og  
Application Virtualization cacher til  
offline brug.

# Hvor er Application Virtualization særlig oplagt?

Nedbring drifts-  
omkostninger på  
applikationer



Muliggør roaming  
'vilkårlig  
arbejdsplads'



Forenkle og  
acceleree app. og  
OS migrering



Forretnings-  
kontinuitet for  
applikationer



Nedbringer app  
kompatibilitet og  
testing



Nedbring  
Help Desk  
opkald



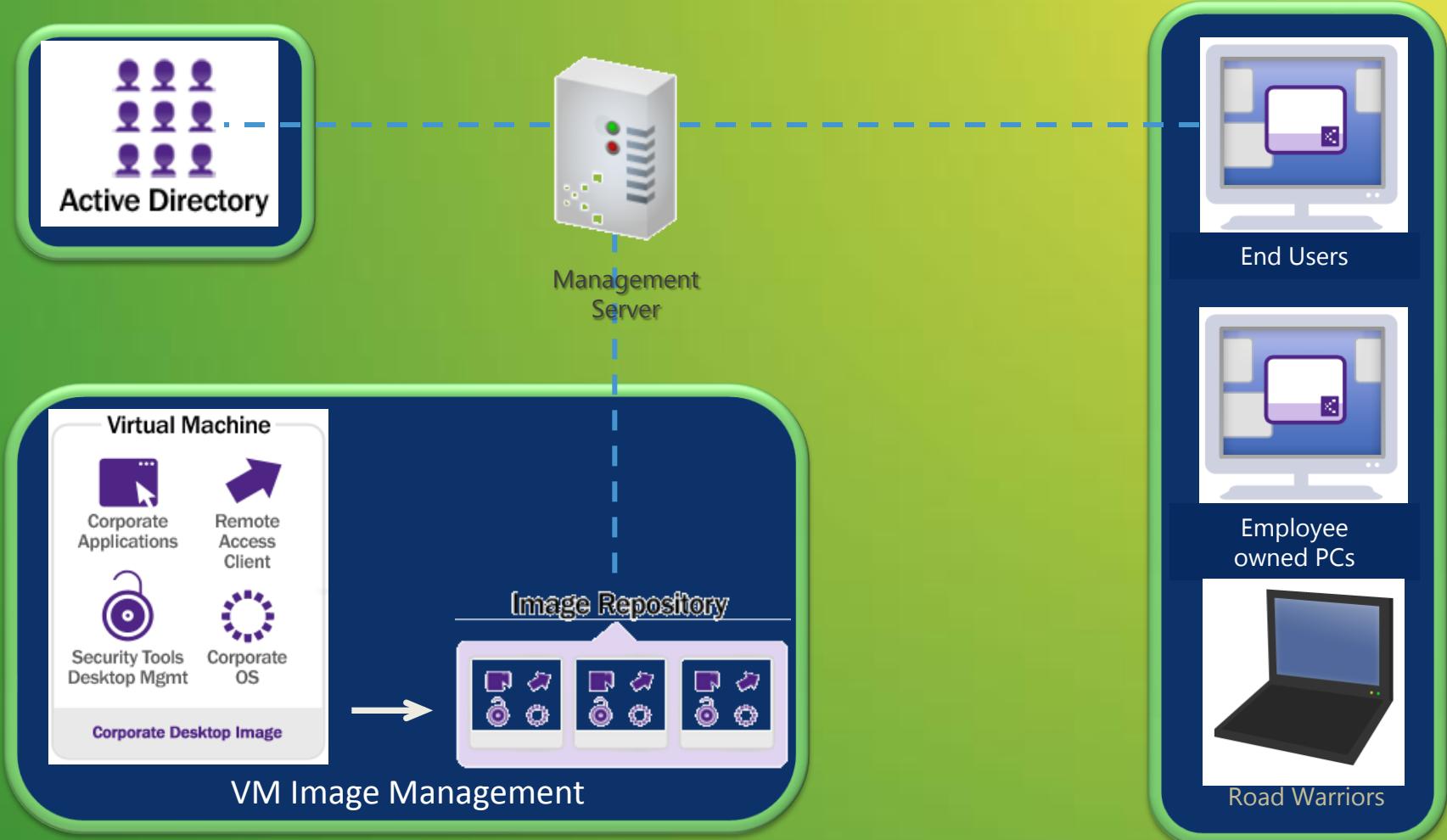
Konsolidér,  
standardisere og  
stabilisere images

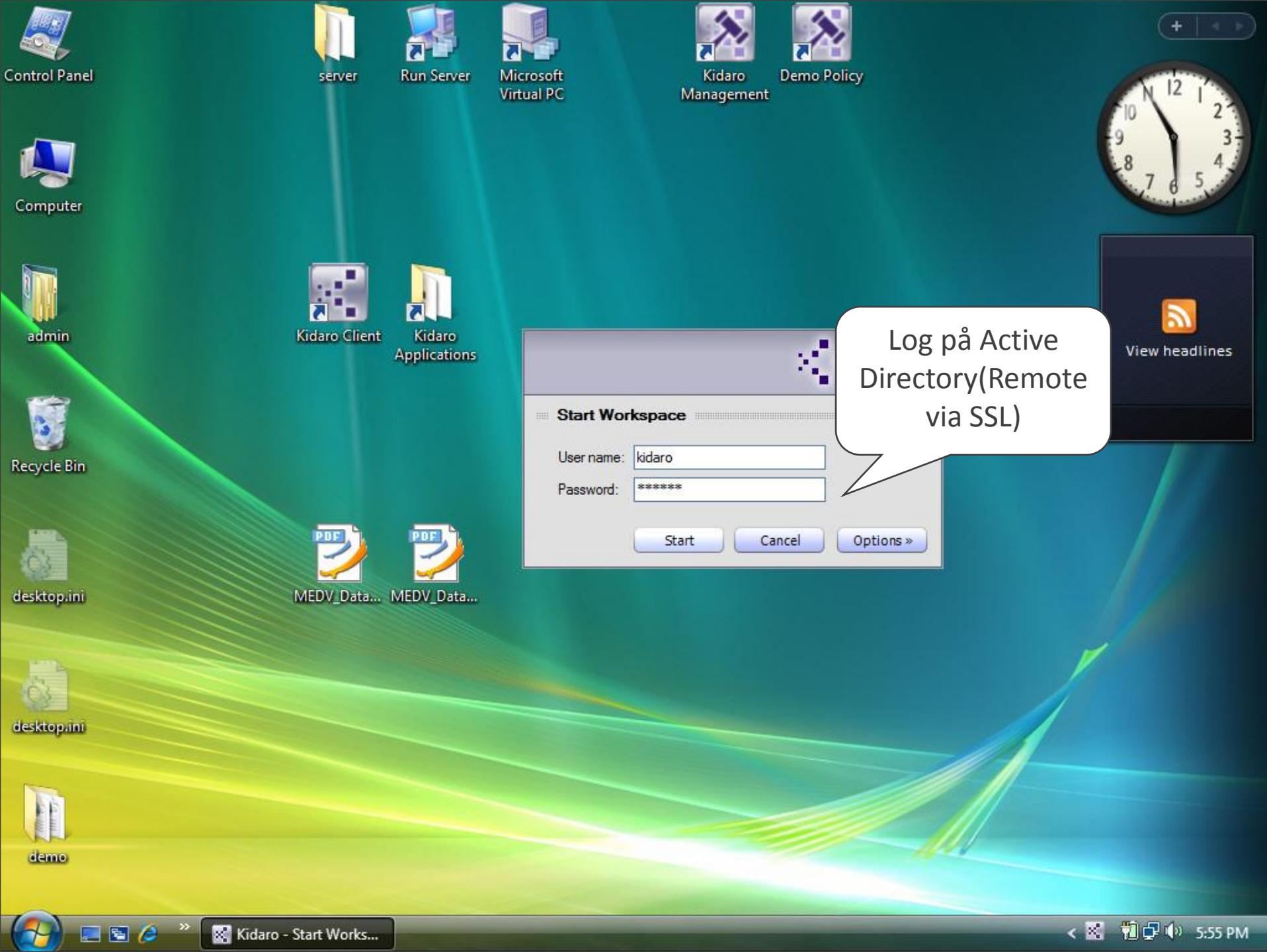


Konsolidér  
Terminal Services  
Servere



# Med-V, XP Mode med management





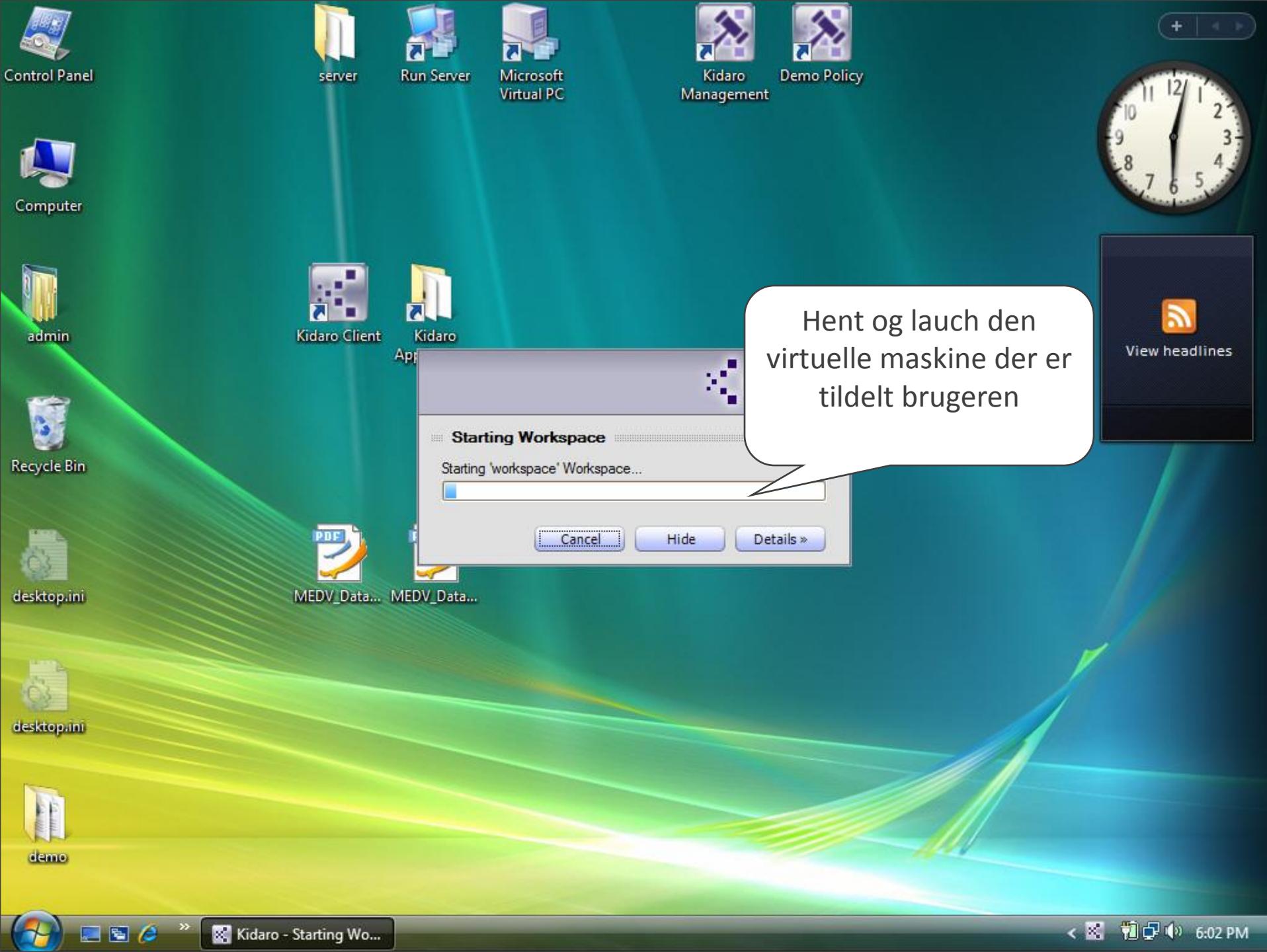
Log på Active  
Directory(Remote  
via SSL)

Start Workspace

User name:

Password:

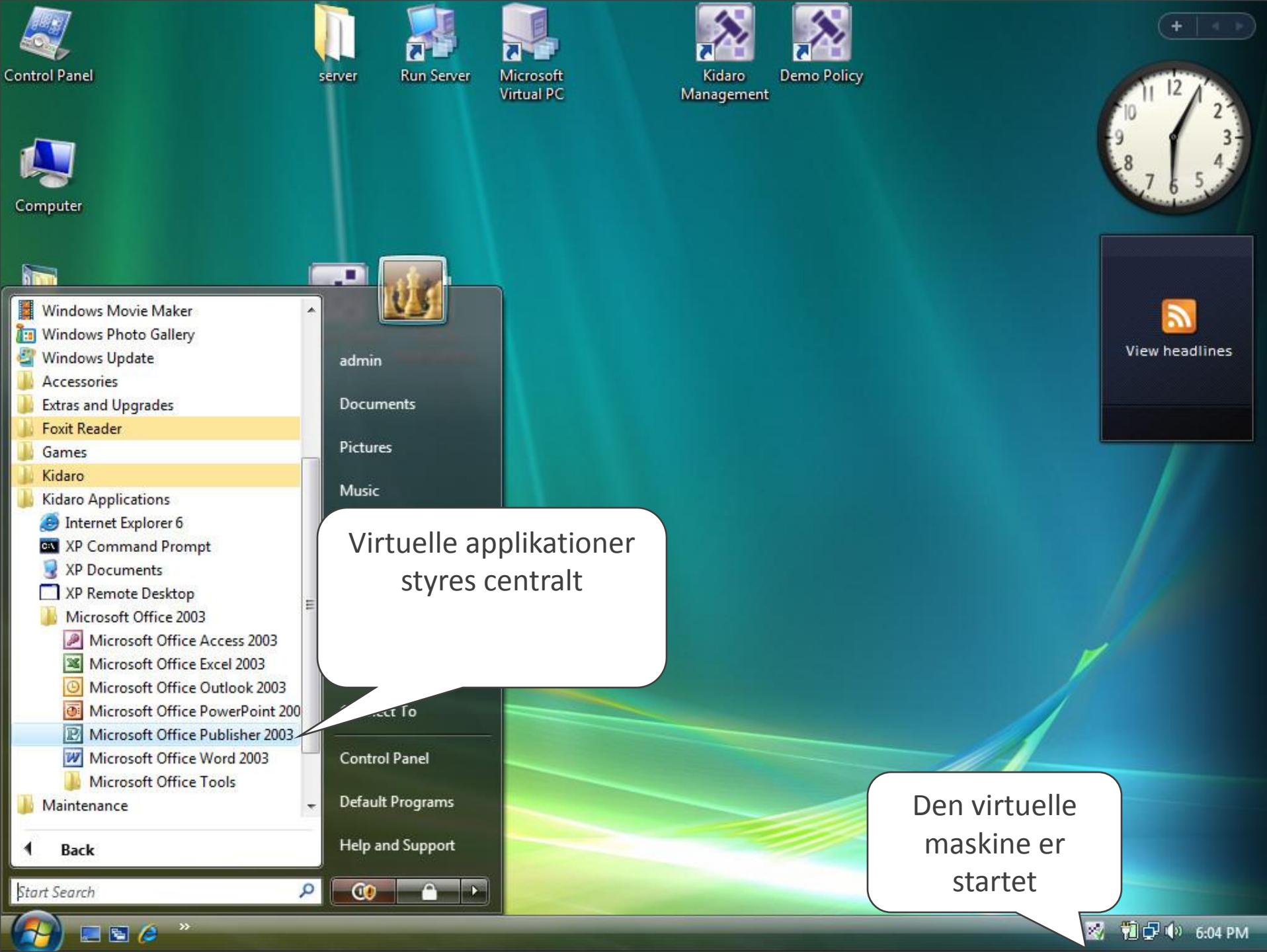
Start Cancel Options »



Hent og lauch den  
virtuelle maskine der er  
tildelt brugeren

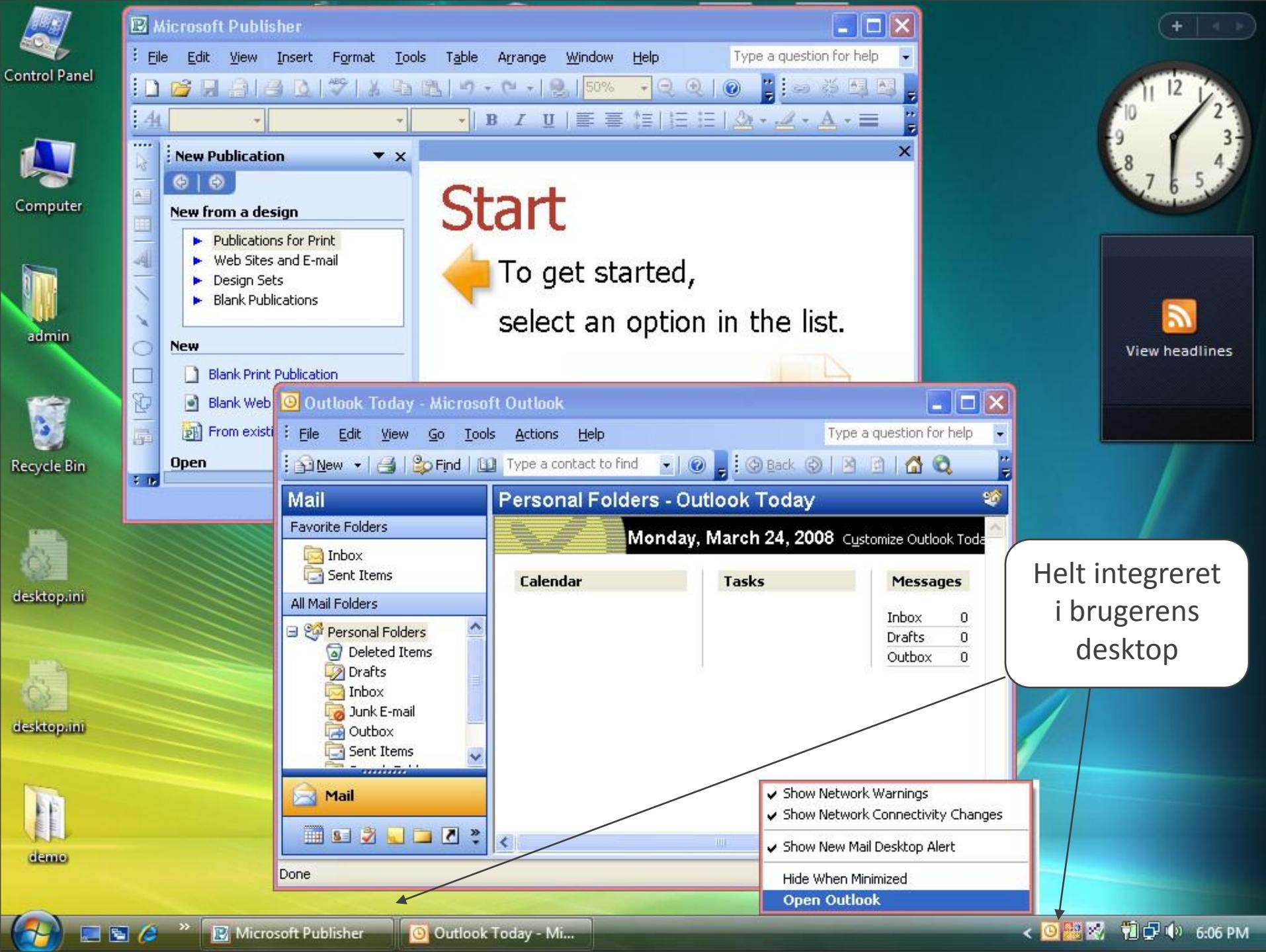


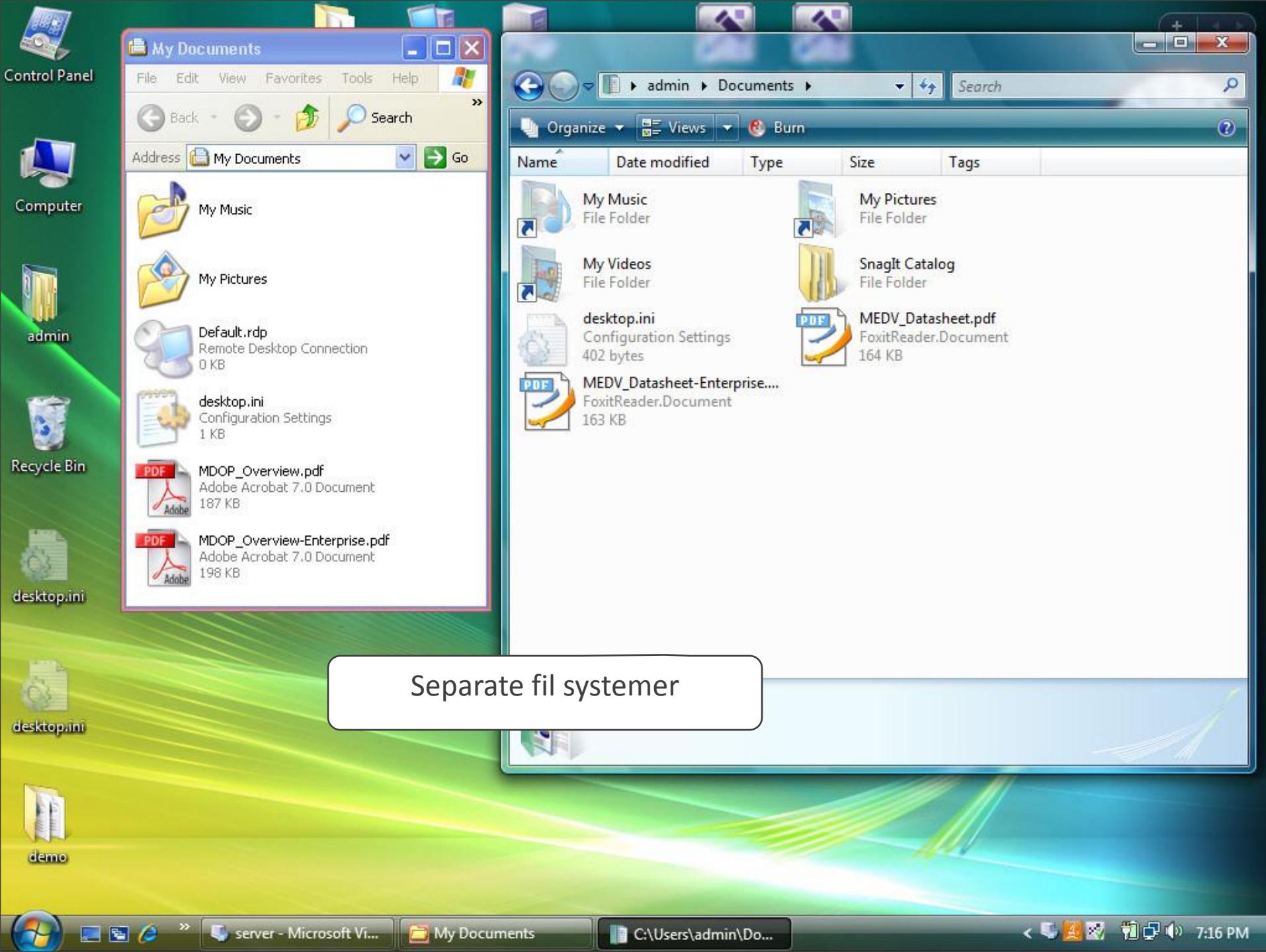
View headlines

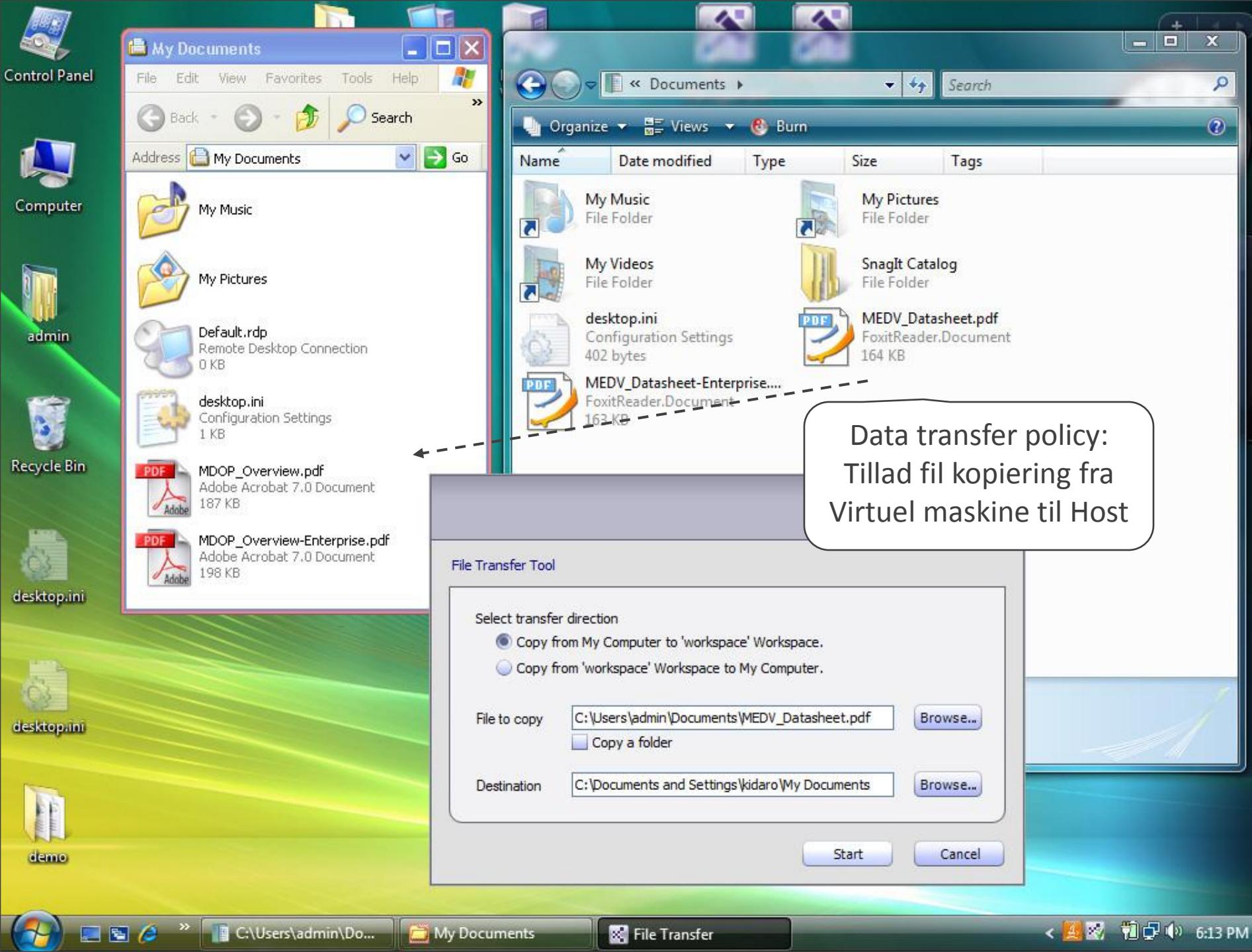


Virtuelle applikationer  
styres centralt

Den virtuelle  
maskine er  
startet

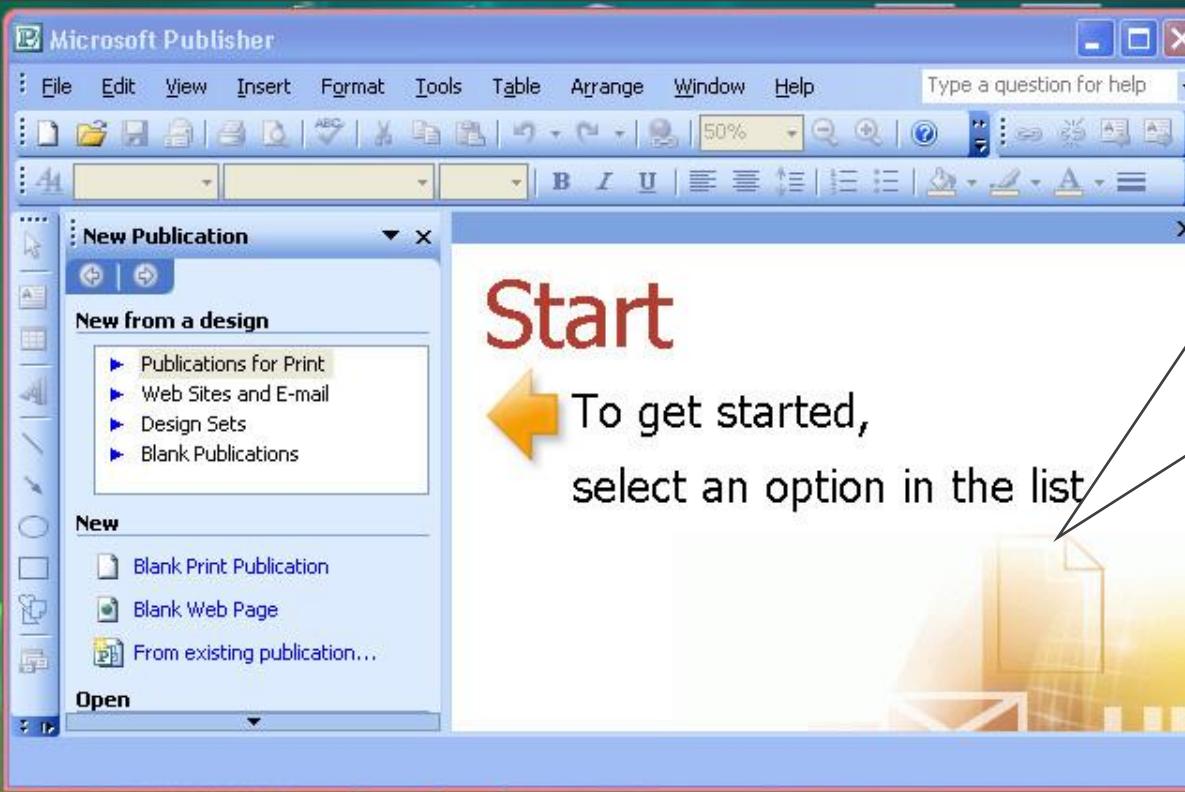






Data transfer policy:  
Tillad fil kopiering fra  
Virtuel maskine til Host

Kør ældre  
programmer som  
ikke kan bringes til  
at køre under  
Windows 7



Control Panel

Computer

admin

Recycle Bin

desktop.ini

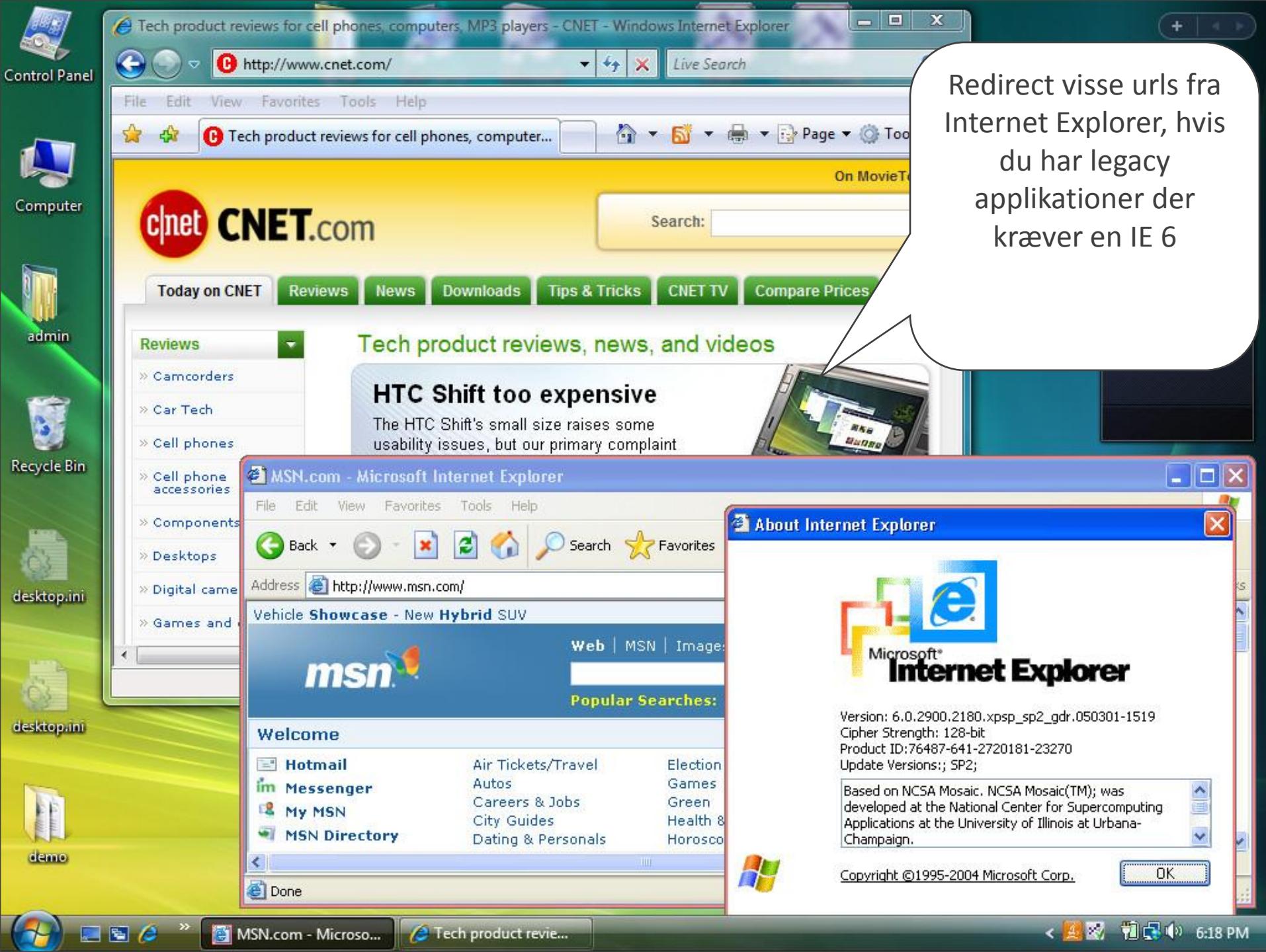
desktop.ini

demo



Microsoft Publisher

6:06 PM



Redirect visse urls fra  
Internet Explorer, hvis  
du har legacy  
applikationer der  
kræver en IE 6

## Tech product reviews, news, and videos

### HTC Shift too expensive

The HTC Shift's small size raises some usability issues, but our primary complaint



### About Internet Explorer



## Internet Explorer

Version: 6.0.2900.2180.xpsp\_sp2\_gdr.050301-1519

Cipher Strength: 128-bit

Product ID: 76487-641-2720181-23270

Update Versions: SP2;

Based on NCSA Mosaic. NCSA Mosaic(TM) was developed at the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign.

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OK



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» Components

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### HTC Shift too expensive

The HTC Shift's small size raises some usability issues, but our primary complaint



### Popular Searches:

#### Welcome

Hotmail

Air Tickets/Travel

Election

Messenger

Autos

Games

My MSN

Careers & Jobs

Green

MSN Directory

City Guides

Health & Fitness

Dating & Personals

Horoscopes

Done

MSN.com - Microso...

Tech product review...

6:18 PM

Tillad personlige  
applikationer at køre på  
host maskinen

marketplace social  
sts videos pictures poc

Sign In | Settings | ?

Search

Windows Live Messenger

Help ▾

Computer

7 Artists Sorted A-Z

Aaron Goldberg

Aisha Duo

Windows Defender

Windows Live Photo Gallery

Windows Mail

Windows Media Player

Windows Meeting Space

Windows Movie Maker

Windows Photo Gallery

Windows Update

WinZip

Accessories

Extras and Upgrades

Foxit Reader

Games

Kidaro

Kidaro Applications

Maintenance

Microsoft Office Live Meeting 2007

SnagIt 8

Startup

Windows Live

WinZip

Zune

Back

Start Search

marketplace social  
sts videos pictures poc

7 Albums Sorted By Date Added

admin

Documents

Pictures

Music

Search

Recent Items

Computer

Network

Connect To

Control Panel

Default Programs

Help and Support

11 Songs Sorted A-Z

Amanda

Despertar

Din Din Wo (Little)

Distance

I Guess You're Right

I Ka Barra (Your

Love Comes

Muita Bobeira

OAM's Blues

E-mail address:

Password:

Sign in as: Online ▾

Remember me

Remember my password

Sign me in automatically

Sign in

Forgot your password?

Service status

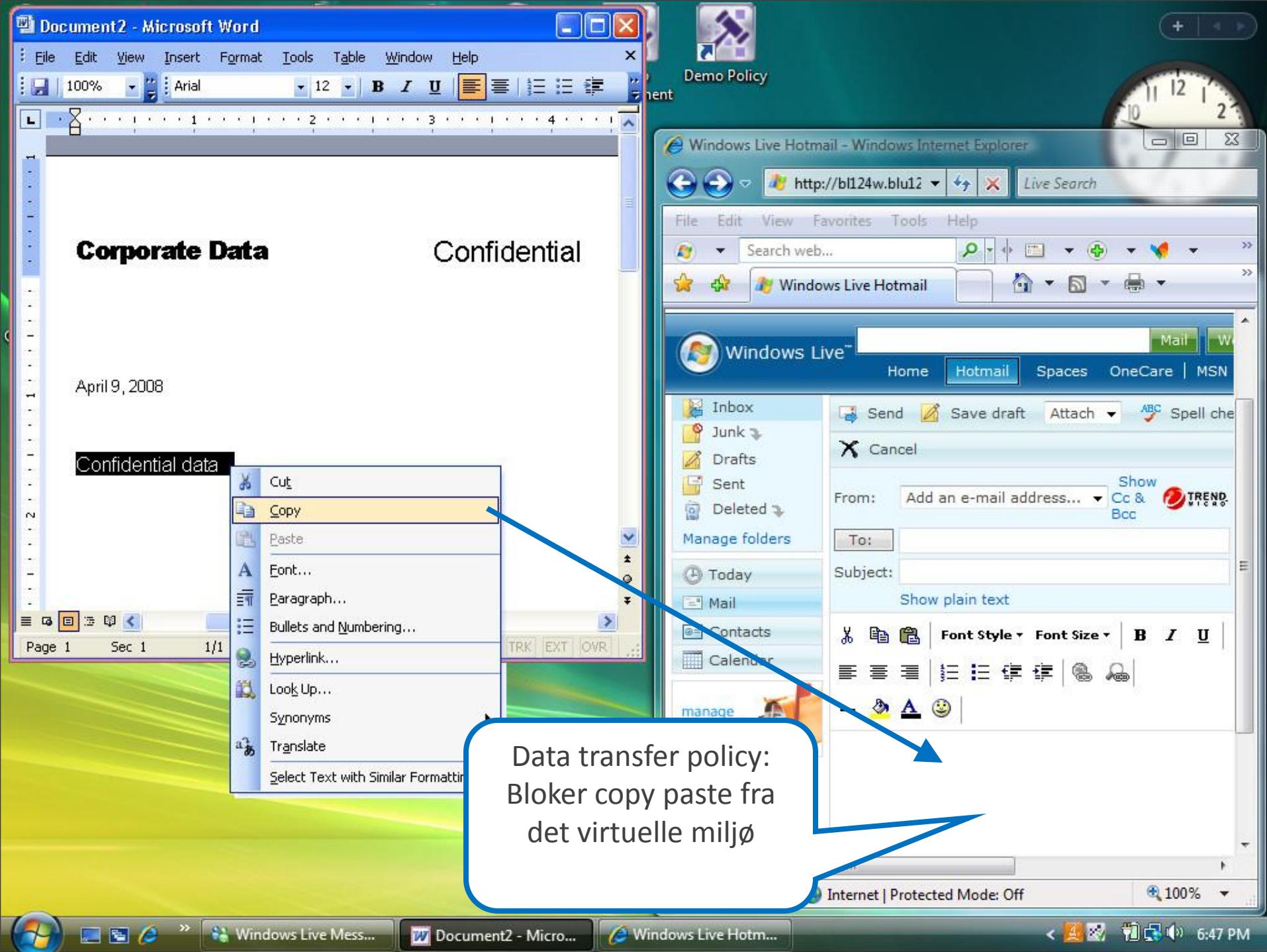
Sign up for a Windows Live ID

Privacy statement

Windows Live ID

6:29 PM

Windows Live Photo... Zune C:\Users\admin\Des... Windows Live Mess...





Status



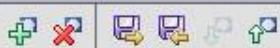
Policy



Images



Reports



Centraliseret virtuel image  
management og versionering i et  
single repository

### Images on Server

Image Name	Version	Size (compressed)
2017-Per	1	583.3 MB
2017-Rev	1	1.1 GB
2021Test	2	1.1 GB
2021Test	1	1.1 GB
2021Test	2	1.1 GB

### Local Images

Image Name	Version	Size	Status	Finalized	Type
workspace	1	3.1 GB	Ready	-	-



Status



Policy



Images



Reports



Workspaces

General Virtual Machine Deployment Applications Web VM Setup Network Performance

workspace

workspace2

**Workspace Properties**

Name

workspace

Description

XP applications



Support contact info

**Workspace UI** Seamless Integration

Workspace windows, taskbar and system tray icons are seamlessly integrated in the host desktop.

 Draw frame around each Workspace window.

Frame color

255, 128, 128

 Full Desktop

The Workspace is displayed in the VM window.

**Host Verification**

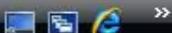
Command line

This command will be executed on the host before starting the Workspace.

 Do not start the Workspace if the verification fails (exit code is not '0')

Add Remove

Lav et nyt "workspace"

  
kidaro  
Desktop Virtualization at Work.

server - Microsoft Vi...

server - Kidaro™ Ma...



6:22 PM

# Hvad kan det bruges til?

- Kompabilitet med forretningskritiske applikationer
  - Ingen stopklodser i forbindelse med migrering til nyt os
- Håndtere trade off mellem bruger rettigheder, og IT sikkerhed compliance
  - Brugeren vil have frihed, IT vil have kontrol
- Drive forretningen fremad
  - Der kan superhurtigt leveres en “firma” pc til en hvilken som helst pc
- Managed pc på f.eks(e.g. konsulenter, fjern kontorer)
  - Giv en pc på en dvd eller usb pen



Opsummering

# Opsummering

- Planlæg forløbet
- Analyser din infrastruktur
  - ACT
  - AIS
  - MAP
  - System Center
- Få infrastrukturen på plads til nye features
  - Direct Access
  - Branch Cache
  - Bitlocker
- Udrulning
  - Klient design
  - System Center Configuration Manager
  - MDT 2010
- Management
  - Server 2008 R2
  - System Center Configuration Manager
  - Atea Add-ons med Spintop
- Desktop Virtualisering
  - App-V
  - Med-V



# Vejen til Windows 7



# Spørgsmål