



# Multiple Browser Test Environment Virtual Desktop

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# Multiple Browser Test Environment

## Purpose:

- Establish a common test environment for EPA web developers so applications can be easily tested against multiple web browsers for both FDCC compliant and non-compliant workstations

## Background:

- Input from the Jonda Byrd and Michael Hessling (OIAA)
- Input from Web Workgroup
- Leveraged virtual desktop work demonstrated at HQ Tech Day



# Multiple Browser Test Environment

## Benefits:

- One location so each developer does not have to download individual browsers and related applications
- Leverage VM technology
- Waivers for CTS workstations are not necessary
- EPA developers will be able to thoroughly test public facing applications and web pages

## Assumptions:

- 100-130 web developers Agency wide



# Multiple Browser Test Environment

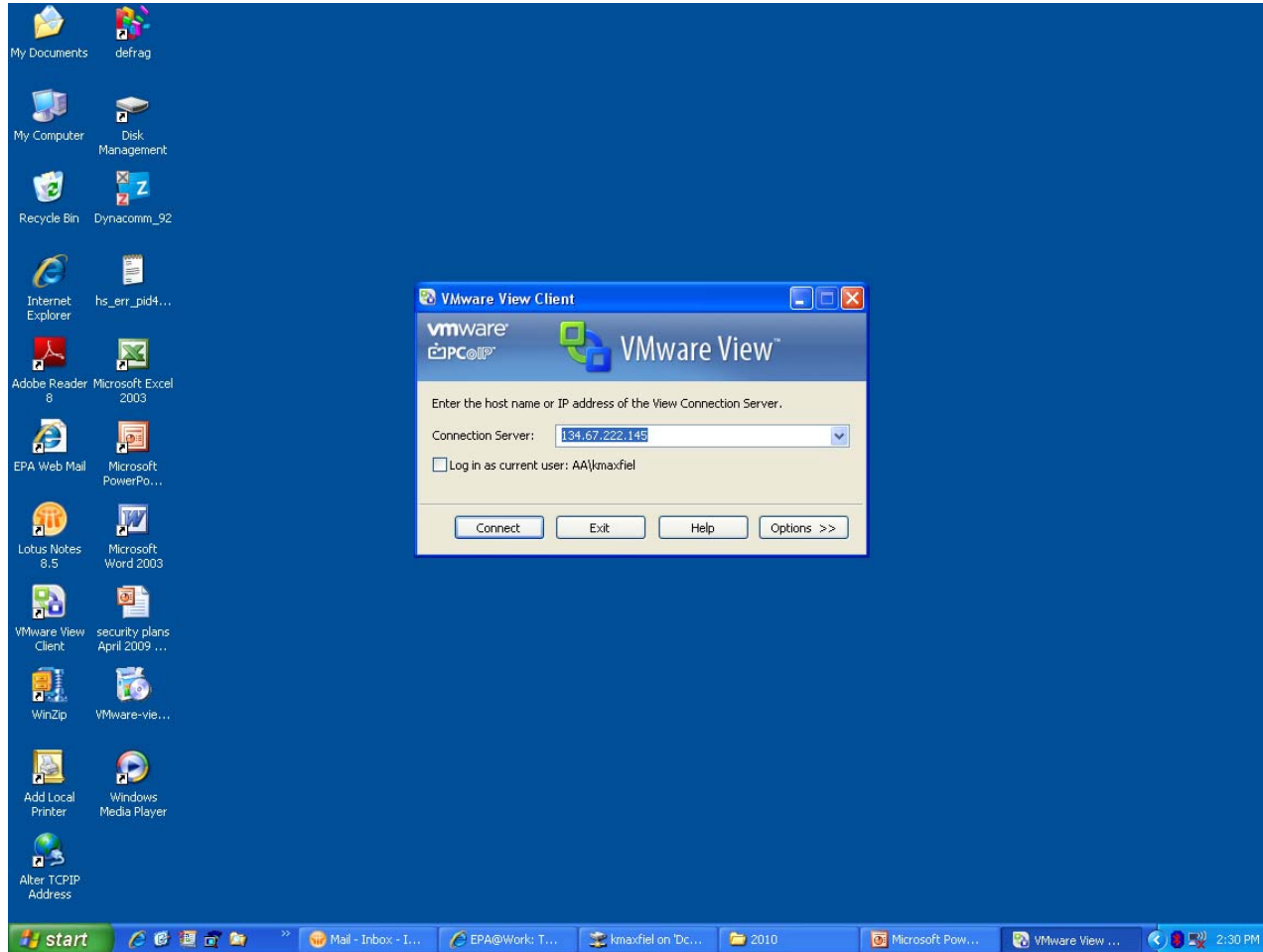
## Current Status:

- Five XP browser pools are available.
- 20 VMware View concurrent licenses purchased
- Coordination with the OTOP Tiger Team
- Input from 15 Pilot participants representing each Region, HQ and RTP
- Governance by Web Council



# Multiple Browser Test Environment

The VMware Client connecting to the Browser Pools



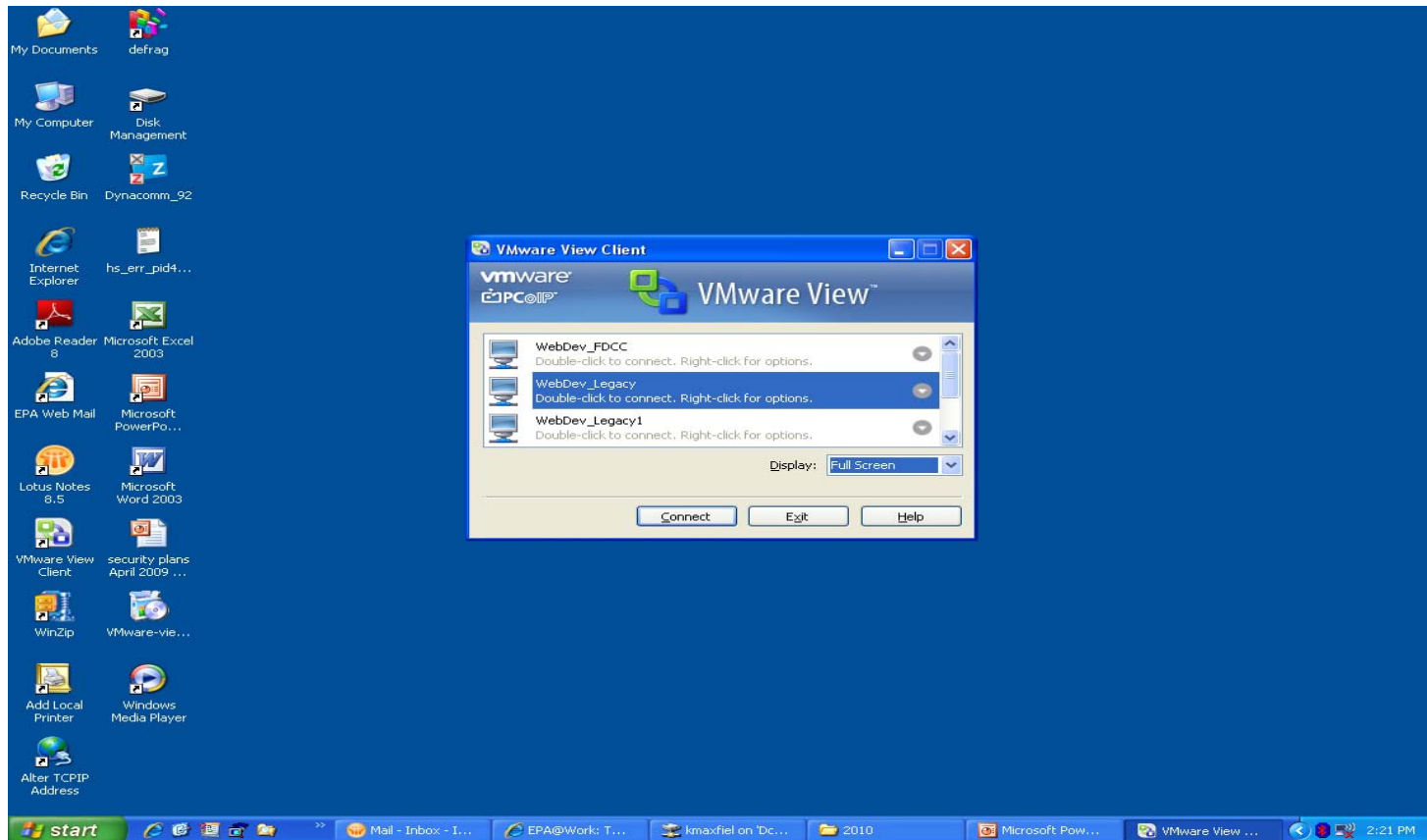
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# Multiple Browser Test Environment

## Selecting A Browser Pool





# Multiple Browser Test Environment

A small screen version of one of the virtual desktops





# Multiple Browser Test Environment

## Browser Pools Currently Consist of:

- > **WebDev\_FDCC** (1 license)

*A CTS Image*

- > **WebDev\_Legacy** (10 licenses)

*IE 8, Firefox 3.6, Safari 4, Google Chrome*

- > **WebDev\_Legacy1** (4 licenses)

*IE 7, Firefox 3.5.2, Safari 3.1*

- > **WebDev\_Legacy2** (3 licenses)

*IE 6, Firefox 3.0.11*

- > **WebDev\_Legacy3** (2 licenses)

*Firefox 2.0.22*



# Multiple Browser Test Environment

## Proposed Browser Pool Adjustments Based on Pilot Group Recommendations:

- > **WebDev\_Edge** – for beta/unstable versions (3 licenses)

*IE 9, Firefox Greenlane, Chrome dev.*

- > **WebDev\_FDCC\_R2** (3 licenses)

*Current CTS Standard Image*

- > **WebDev\_Current** – the latest versions (8 licenses)

*IE 8, Firefox 3.6, Safari 4, Chrome*

- > **WebDev\_Legacy1\_R2** (3 licenses)

*IE 7, Firefox 3.0, Safari 3.2.1*

- > **WebDev\_Legacy2\_R2** (3 licenses)

*IE 6, Firefox 2.0*



# Multiple Browser Test Environment

## Pilot Group:

- Participants selected in December and January
- Participants selected by Jonda Byrd and the Web Infrastructure Coordinators
- Browser pools were fully activated in January
- Remote Access became available March 1<sup>st</sup>
- Pilot period ran from January thru March
- Participants were asked to evaluate ease of use, speed, relevance of Project and also assist in identifying additional useful browsers and applications



# Multiple Browser Test Environment

## Pilot Summary

- **R-1 - Margo Palmer** - No problems; suggests adding Flash and Media players
- **R-2 - Adam Casalino** - No problems; likes the flexibility; iTunes useful in R-2
- **R-3 - Michael Markowski** - No problems; likes it; recommends adding Apple iPad Browser
- **R-4 - Doug Deakin** - Evaluating
- **R-5 - Karen Reshkin** - No problems; pleasantly surprised.
- **R-6 - Barry Everett** - Initial issues with local security settings; evaluating.
- **R-7 - Jeffrey Wandtke & Michael Propst** - No problems; useful.
- **R-8 - Tim Davis** - No problems; likes it.
- **R-9 - Patti Nelson** – Connectivity issues – further analysis needed.
- **R-10 - Lorin Wendt & Ken Kerner**- Initial connectivity issues; now working well.
- **HQ / ASRC Contractor - Cathy Edstrom** - No problems; useful but cumbersome.
- **HQ / OIAA - Michael Hessling** – Really likes it. Speed issues with Flash/JS animation.
- **RTP / OIAA - Judy Dew** - No problems; likes it; add real video.



# Multiple Browser Test Environment

## Questions and Answers

- 1) Can a user download information from a virtual desktop to their workstation? **Yes**
- 2) Can the pools be accessed via AAA? **Yes**
- 3) Should users save bookmarks on the virtual desktops?

The licenses are of the concurrent or shared variety so this is not possible.

- 4) Is Blue Coat used for security filtering? **Yes**
- 5) How does a EPA Web Developer get added to the user list?

The Web Council is considering having the Web Infrastructure Coordinators for each Office and Region make this decision.

- 6) What is the process for adding an application or browser to the existing pools?
- 7) How often will the pools be updated?

The Web Council will make this decision.

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# Multiple Browser Test Environment

## Next Steps:

- ✓ Complete Pilot Testing – March 31<sup>st</sup>
- ✓ Implement Desktop Support with OARM / IRMD – April 1<sup>st</sup>
- ✓ Make modifications as determined by Pilot participants – April 1<sup>st</sup>
- ✓ Present at the April IRM Branch Chief meeting – April 1<sup>st</sup>
- ✓ Present/demonstrate to Web Council and Web Workgroup – April 12<sup>th</sup> & 14<sup>th</sup>
- Deploy to Agency Web Developers as determined by the Web Council and Web Infrastructure Coordinators – in progress - OIAA



# Support Contact Information

- **Virtual Browser Support Line:** (919) 541-1532
- **Email:** IRMD\_Support@epa.gov
- **Website:**  
[http://intranet.epa.gov/rtp/services/other/download\\_virtual\\_desktop.htm](http://intranet.epa.gov/rtp/services/other/download_virtual_desktop.htm)
- **Web Council & Web infrastructure Coordinators:**  
<http://www.epa.gov/webgovernance/leadership.html>



# Questions & Contacts

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