

# Voco F1 Event

## A Test Lab in the Cloud

Friday  
30 October 2009  
Te Papa

4:00PM-6:00PM

# Virtualisation and Cloud Computing

- Server Virtualisation & benefits
- Desktop Virtualisation
- Cloud Computing
  - What is it
  - Amazon EC2 & S3
  - Simple Demonstration of Amazon EC2

## Server Virtualisation

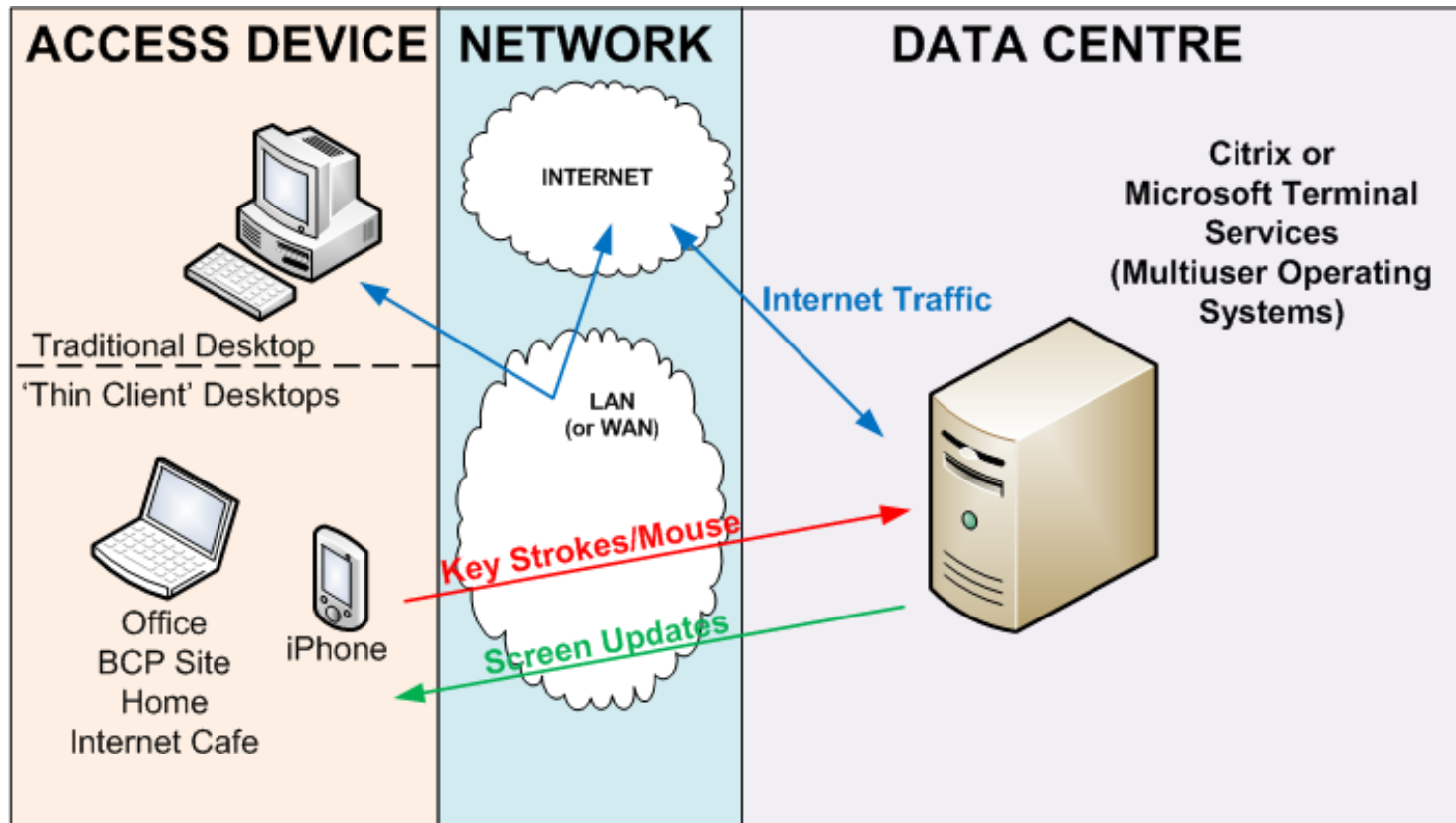


Top 4 reasons:

- Resource Efficiency
- Reduced Footprint
- Increased Availability
- Operational Flexibility

- Desktop Virtualisation inherits these benefits BUT....

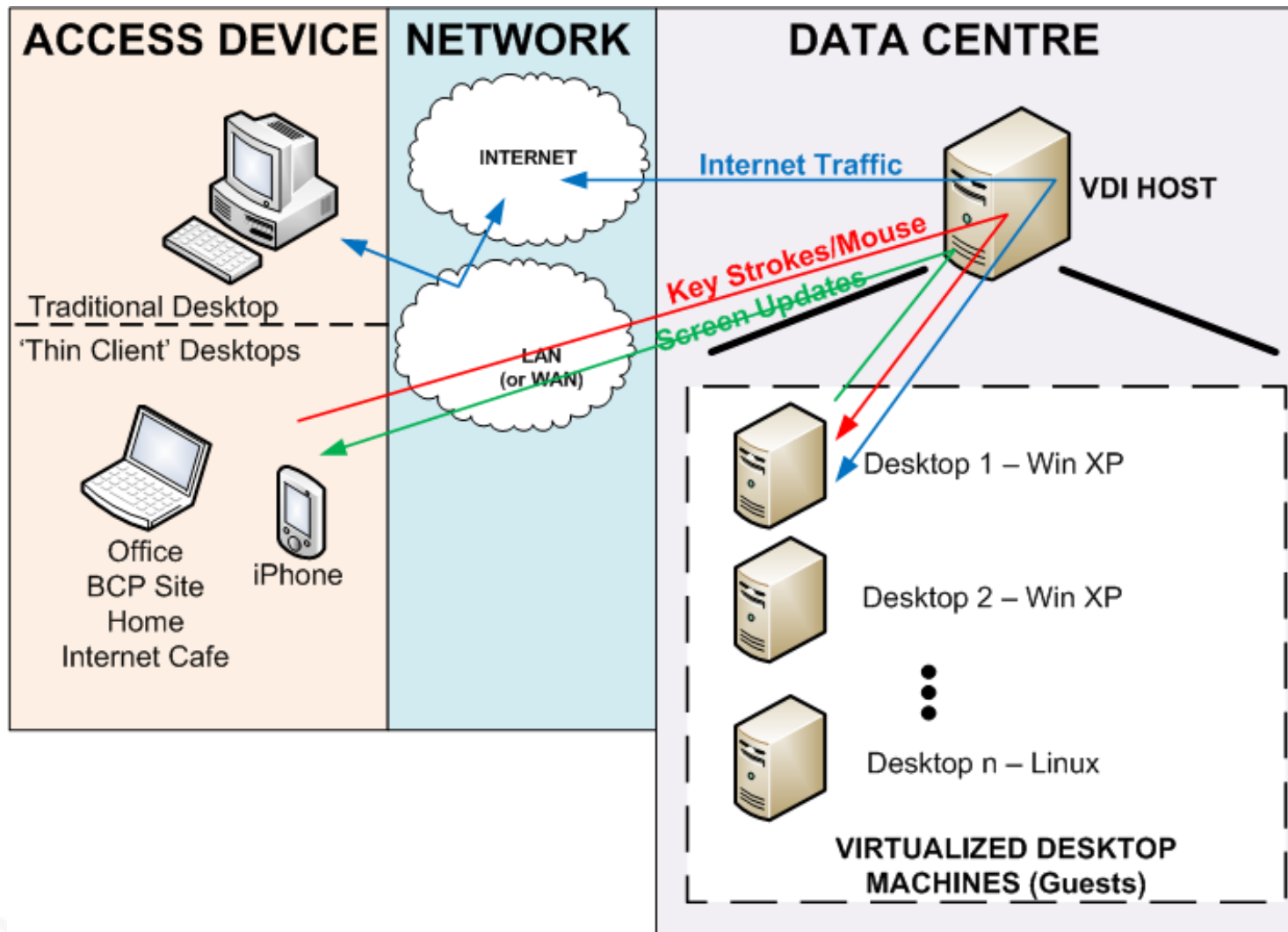
## Traditional Desktop Virtualisation– Citrix/Terminal Services



One OS, multiple users, all sharing one copy of one OS

Is this what users want?

# Desktop Virtualisation – Virtual Desktop Infrastructure (VDI)



## Cloud Computing – What makes a Cloud Service?

- Internet based
- Elastic provisioning with demand
- Metered by usage.

### Example compute/storage Vendors

- US - Amazon, Rackspace
- NZ - Code Blue

## Cloud Computing – Amazon's Web Services



- Amazon's Elastic Computing (EC2)
  - Servers on demand (Windows, Linux), manual or API
  - Charged when running only
  - OS Licenses included in price
  - Security Groups
- Amazon's Simple Storage Service (S3)
  - EC2 'Bundles' or volumes
  - Other storage

## Cloud Computing – Amazon EC2 Demonstration

Goal 1: Phase 1 of my research into RDP

- Set up a Microsoft 2003 Server to test out Remote Desktop Protocol (RDP) over the Internet.

(Note this is not specific to Desktop Virtualization although RDP is required for Microsoft VDI desktop access)

Goal 2: How easy is it to use EC2 for a test lab setup?

DEMO TIME! – Set up a server in only a few minutes...

# Amazon EC2 Test Lab – How much did that cost?

My time: 1 Hour

Summary of This Month's Activity as of October 20, 2009	
Billing Cycle for this Report: October 1 - October 31, 2009 <i>AWS service usage charges on this page currently show activity through approximately 10/20/2009 19:59 GMT.</i>	
<a href="#">Expand All</a>   <a href="#">Collapse All</a>	
	<b>Totals</b>
<b>+</b> <b>Amazon Elastic Compute Cloud</b> <a href="#">View/Edit Service</a>	
<a href="#">View Usage Report</a>	<b>0.90</b>
<b>Amazon Simple Storage Service</b> <a href="#">View/Edit Service</a>	
<a href="#">View Usage Report</a>	<b>0.00</b>
<b>Taxes</b> Estimated Taxes (Due November 1, 2009)	<b>0.00</b>
<b>Charges due on November 1, 2009+</b>	<b>0.90</b>

COST: 90 US Cents!