

Microsoft Dynamics NAV 2013

Technical Overview of OData and other services*

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Vikram B L
vikrambl@microsoft.com



Kabir Shenvi
kashenvi@microsoft.com

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* Level Beginner to Intermediate

AGENDA

- ❑ NAV 2013 and OData
- ❑ Demo of OData with NAV 2013
- ❑ NAV 2013 and NAS
- ❑ NAV 2013 and Azure
- ❑ Q & A

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Open Data Protocol

OData makes it easier for products to play together.

- Utilizes the data in one product from another product.
- Data is tabular and easy to query.
- "OData is the web-based equivalent of ODBC."
- [MSDN, Chris Sells, Open Data Protocol by Example](#)

Example:

Microsoft Dynamics NAV 2013 *exposes* OData.

+ PowerPivot for Microsoft Excel 2010 *consumes* OData.

= Users can make "self-service business intelligence".



Open Data Protocol



I speak
OData!

Microsoft Dynamics NAV
2013 @ Cronus.com

A purple arrow points from the server to a table, and another purple arrow points from the table to the BI report screenshot.

I
understand
OData!

OData enables Microsoft
Dynamics NAV 2013 to feed data
to your BI solution





Open Data Protocol

OData is supported by several Microsoft products, including:

- Applications

 - PowerPivot for Excel

 - Microsoft SharePoint

 - Visual Studio

 - Microsoft Dynamics CRM

 - Microsoft Dynamics NAV 2013

- Data providers

 - Azure Data Market

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DEMO

NAV 2013 GB

Your demo will begin shortly...

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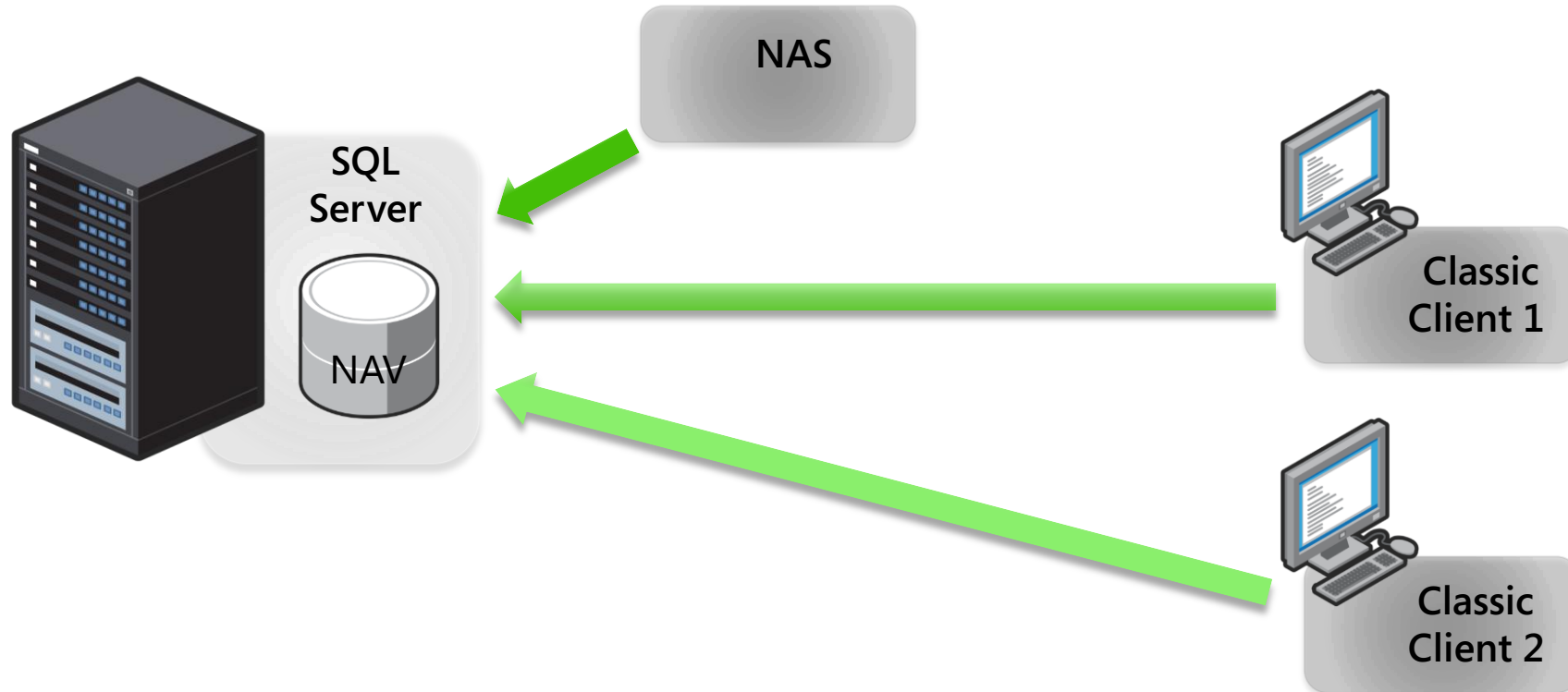
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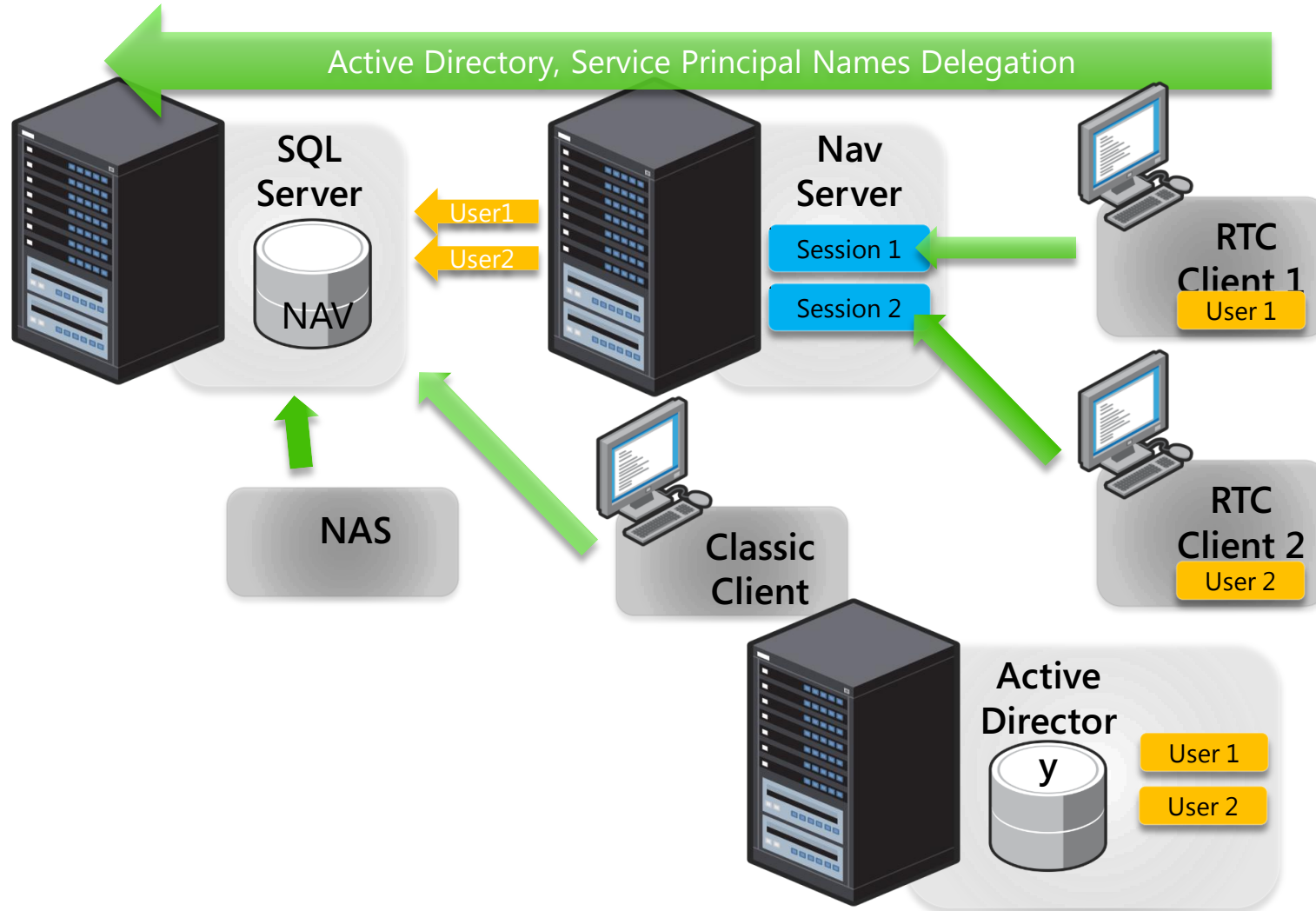
NAS (NAV Application Server)

- Support applications such as Microsoft Office Outlook Integration and the NAV Job Queue
- Create separate Microsoft Dynamics NAV Server instance for each NAS services application

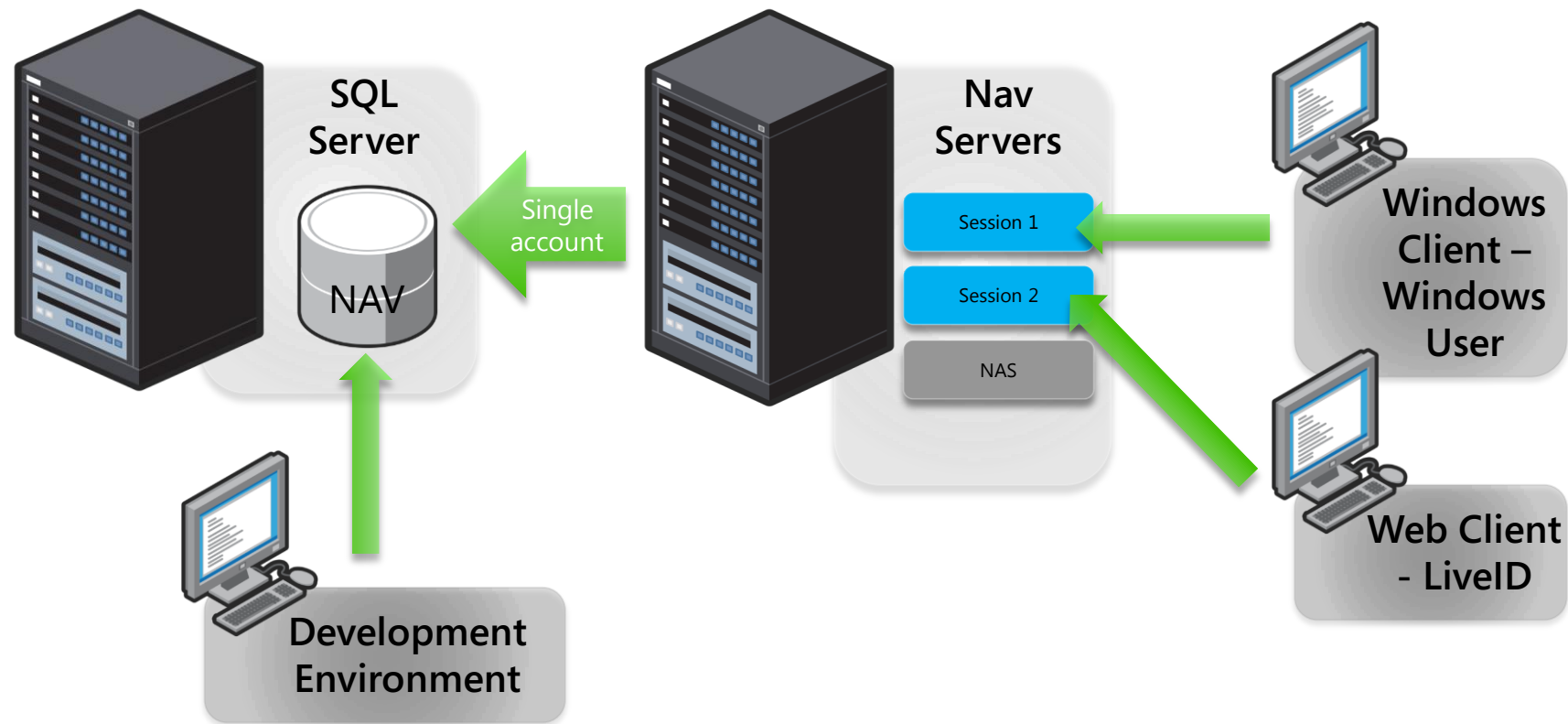
NAV 5.0 'Classic' 2-tier



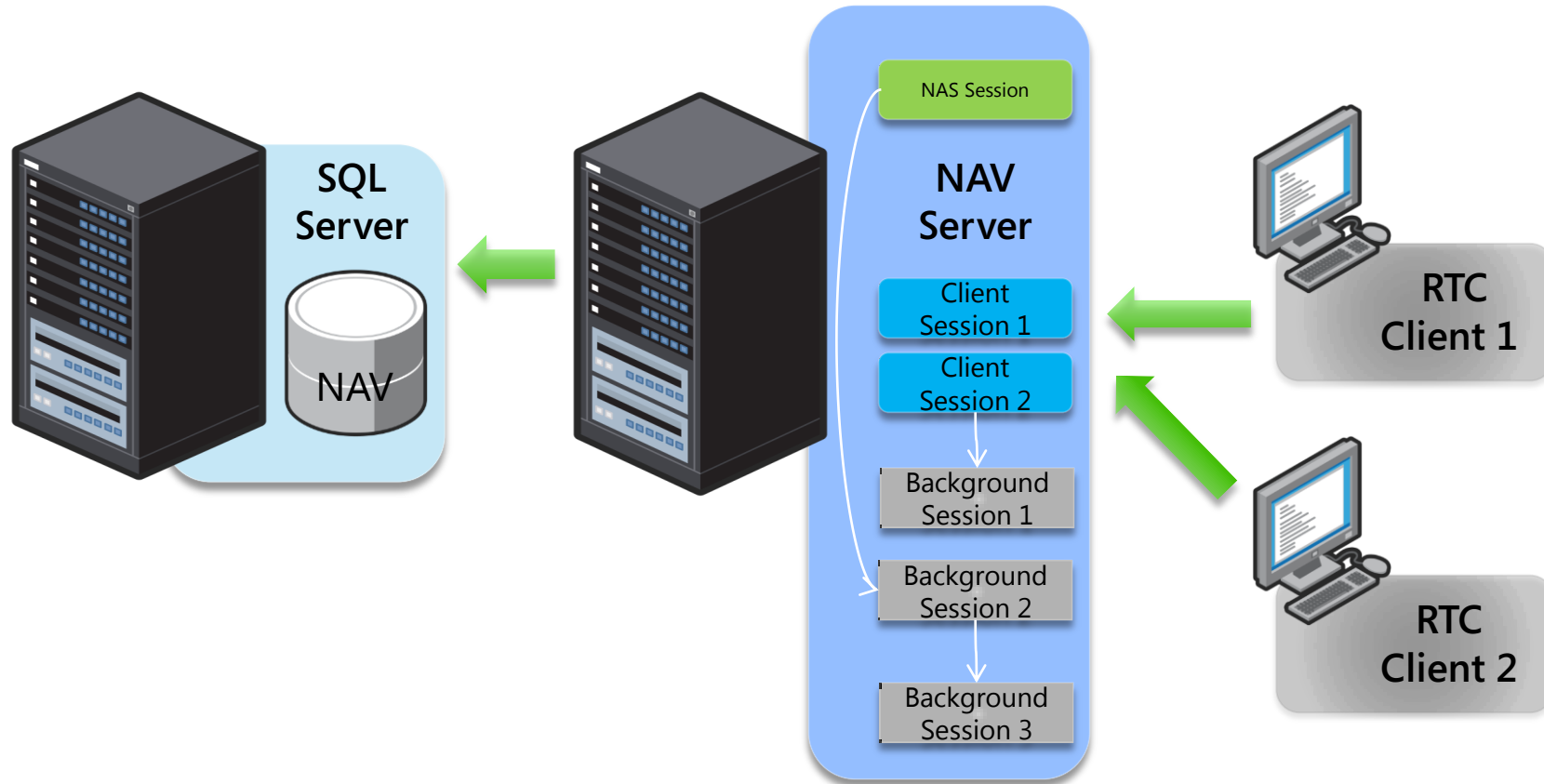
NAV 2009 3-tier (mixed mode)



NAV 2013 and NAS



NAV 2013 3-tier Overview



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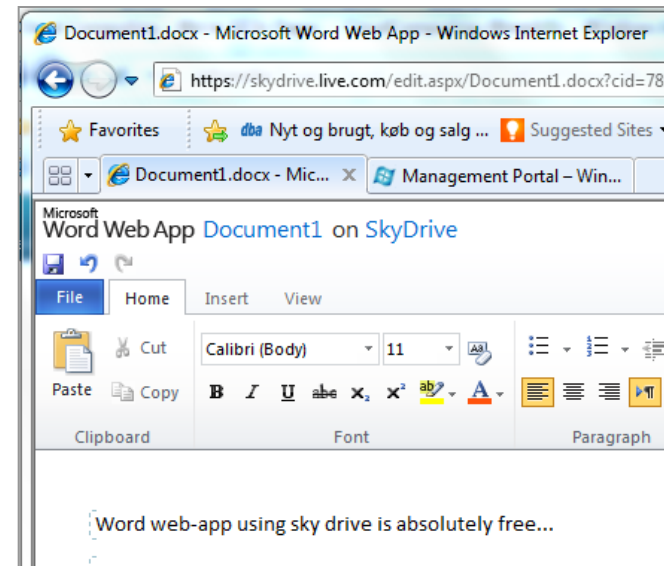
Why Azure? "We are all in"...

Why the cloud? Why Microsoft? Make a change. With the promise of lower costs, increased efficiencies and new types of business opportunities many of our customers and the industry at large are excited about "the cloud". Cloud computing offers a unique opportunity for Microsoft to highlight our experience, our commitment and our leadership to our customers.



Quote from infopedia

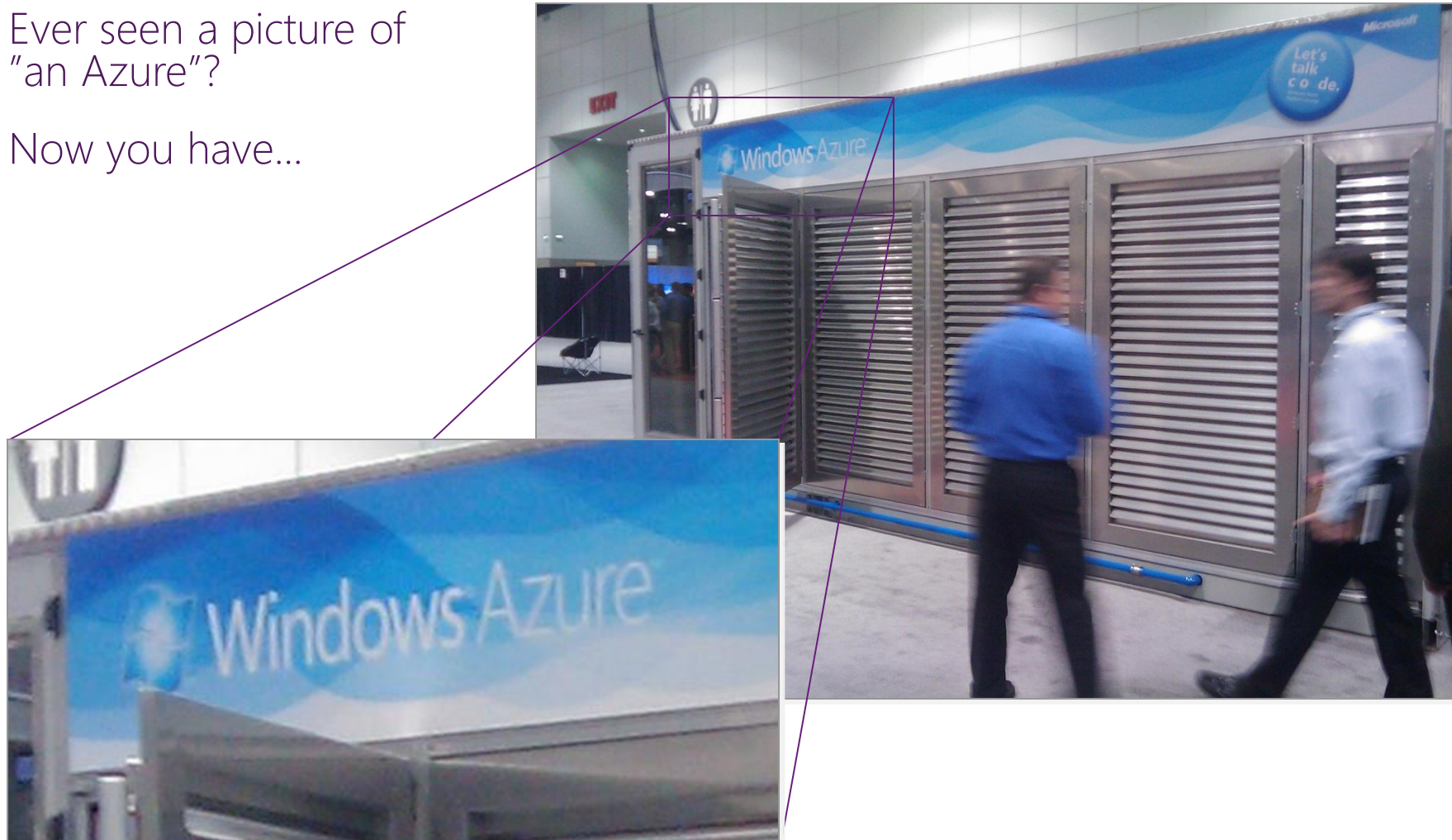
Office 365
Office web applications
Windows Azure, SQL Azure
Microsoft, own and 3. party Hosted Services
Hosted datasets
Statistical data/reports on demand
Dynamics online
CRM
Developer tools
Local Fabric



What is Azure and SQL Azure

Ever seen a picture of
"an Azure"?

Now you have...



What is Azure

“Windows Azure is Microsoft’s cloud services platform, designed to host web services and applications in Microsoft-owned, Internet-accessible data centers.”

Technical demystification:

Rack of computers running (a modified) Server 2008 R2

Hyper-V offering many VM’s per physical computer

Storage Service offering reliable/redundant storage through either API or mapped drives

Fabric controller offering replication, scaleout and management (this is where the difference lies)

What is Azure



7 Datacenters around the world

Chicago:

700,000 square feet

Room for 150+ containers

2,000 servers per container

11 diesel generators supplying 2.8 megawatt of power



Azure storage and SQL Azure

Azure comes with "Azure storage" which is a simple key-to-BLOB storage

It is the preferred way of storing data you want to keep, fully replicated to avoid data loss

It is not a relational database

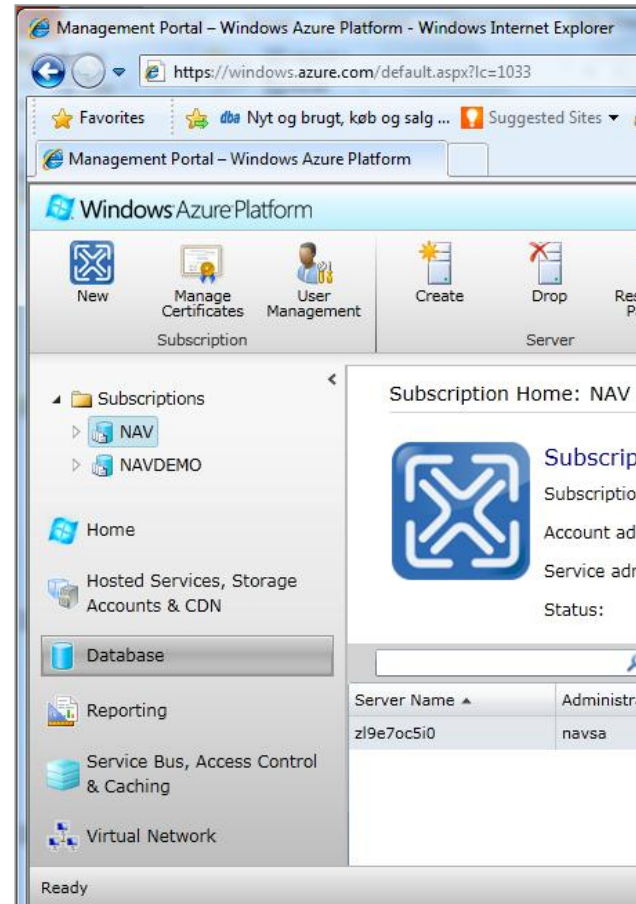
SQL Azure

Think shared SQL database on Azure

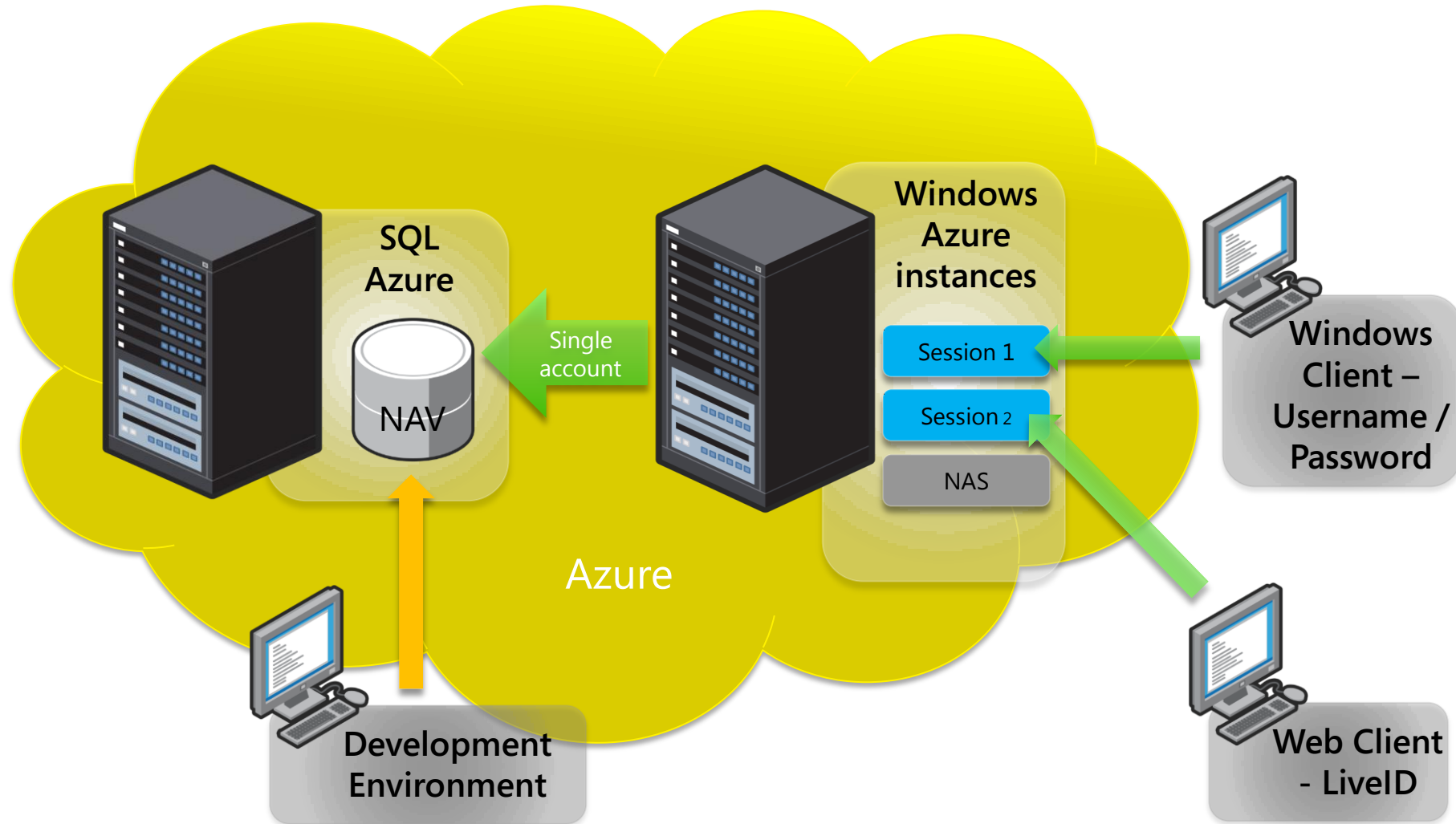
Fully supports joins, tables, views etc

Full management support from WEB, SQL management studio and VS

Fully replicated



NAV 2013 on Azure



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Key Takeaways

- ✓ Understanding features of OData
- ✓ Integrating NAV 2013 to a BI Solution using OData
- ✓ Using Power Pivot with NAV 2013
- ✓ Developing applications on NAV 2013 using OData
- ✓ Understanding NAS and NAV on Azure

References

- **NAV 2013 and NAS:** <http://blogs.msdn.com/b/nav/archive/2012/09/20/microsoft-dynamics-nav-2013-nas-services-user-credentials.aspx>
- **SOAP and OData:** [http://msdn.microsoft.com/en-us/library/hh168269\(v=nav.70\).aspx](http://msdn.microsoft.com/en-us/library/hh168269(v=nav.70).aspx)
- **Configuring NAS Services:** [http://msdn.microsoft.com/en-us/library/dd355183\(v=nav.70\).aspx](http://msdn.microsoft.com/en-us/library/dd355183(v=nav.70).aspx)

Thank you!

vikrambl@microsoft.com

+44 844 800 6006 Option 4

kashenvi@microsoft.com