

# Community Case Study - Kodak Alaris

Trey Talbott

@treytalbott

Mike McKechney

@mmckechney

Anthony Martin

@SQLMartini

# Agenda

- Opening Remarks
- RocAzure Charter
- Introductions
  - First timers.
- Review Calendar
- What's new?
  - Azure Updates and Roadmap
- Keynote
- Wrap up and Network

# Rochester User Group Charter

Cloud computing is a journey.

This User Group exists to:

- Serve a community of Azure enthusiasts
- Demystify cloud computing concepts
- Help accelerate your cloud journey
- Stay current on Azure capabilities
- Help each other with the journey
  - Share real world experiences and lessons learned



# Introduction of first timers

Please share your:

- Name and background
- Cloud experience, if any  
Azure, AWS, Google, etc...
- What are your expectations being here  
i.e., how can this group help you?
- Fun fact

# Upcoming Events

## User Groups

- June – Community Case Study – Paychex (2<sup>nd</sup> TUESDAY)
- July – TBD – Build Recap? (2<sup>nd</sup> TUESDAY)
- August – TBD – Community Case Study – DW use case (2<sup>nd</sup> TUESDAY)
- Sept – Azure Databricks

## Other notable events

- ⑩ May 6-8 – Microsoft Build – Seattle, WA (<https://channel9.msdn.com/events/build>)
- ⑩ May 15 – Dynatrace CI/CD workshop in Rochester Office – lunch will be served!

## Summer Schedule-

moving to 2<sup>nd</sup> TUESDAYS for June, July & August

# NEW RocAzure on GitHub!!

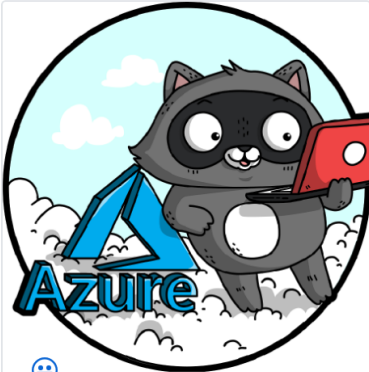
rocazure

GitHub, Inc. [US] | https://github.com/rocazure

Apps Azure Core Enablement Clients MSFT RocAzure K8S Personal

Search or jump to...

Pull requests Issues Marketplace Explore



Set your status

rocazure

Joined 20 days ago

Edit

ProTip! Updating your profile with your name, location, and a profile picture helps other GitHub users get to know you.

Edit profile

Overview

Repositories 1

Projects 0

Stars 0

Followers 2

Following 0

Popular repositories

Customize your pins

MeetUp

Repository for MeetUp meeting content

3 contributions in the last year

Contribution settings

Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar

Mon

Wed

Fri

Learn how we count contributions.

Less More

Contribution activity

2019

April 2019

Created 1 commit in 1 repository

rocazure/MeetUp 1 commit

6

# Azure Training, Labs and Certifications

[microsoft.com/learn](https://microsoft.com/learn)

# Staying Current

aka.ms/LastWeek

Now GA...

News and Updates

Technical Content

Azure shows

Events

Customers, partners and industries



# Notable updates

The Azure US Gov Iowa region is being retired April 30, 2020

App Service Migration Assistant for ASP.NET applications

Azure Container Registry now supports Singularity Image Format containers

## General Availability

- Azure Front Door Service
- ExpressRoute Global Reach
- ExpressRoute Direct
- Azure Database for PostgreSQL Read Replica
- Azure Database for MariaDB: New compute options
- Apache Hadoop 3.0 on Azure HDInsight
- Manage Azure HDInsight clusters using .NET, Python, or Java

# Azure Services Map

<https://nnmer.github.io/azure-services-map/dist/>

Azure Services Reference

Found an issue or have a suggestion? Star 57

## Azure services

Table view Map view

Note:

- services may be placed in several service groups;
- services may have direct links to how-to connect docs;
- a service with input/output connection

AI + Machine Learning

Anomaly Finder

Answer Search

Azure Bot Service

Azure Databricks

Azure Notebooks

Azure Search

Analytics

Apache Spark for Azure HDInsight

Apache Storm for HDInsight

Azure Analysis Services

Azure Data Explorer

Azure Databricks

Data Catalog

Data Factory

Azure Stack

Azure Stack Operator

Azure Stack User

Compute

App Service

Azure Container Instances

Azure Kubernetes Service (AKS)

Batch

Cloud Services

CycleCloud

Functions

Containers

App Service

Azure Container Instances

Azure Dev Spaces

Azure Kubernetes Service (AKS)

Batch

Container Registry

Service Fabric

Databases

Azure Cache for Redis

Azure Cosmos DB

Azure Data Explorer

Azure Database for MariaDB

Azure Database for MySQL

Azure Database for PostgreSQL

Azure Database

DevOps

Application Insights

Azure DevOps

Azure DevOps Projects

Azure Lab Services

Developer Tool Integrations

Developer Tool Integrations

HockeyApp

Visual Studio App

Developer Tools

Azure DevOps

Blockchain Workbench

CLI

Developer Tool Integrations

SDKs

Visual Studio

Visual Studio Code

Identity

Azure Active Directory

Azure Active Directory B2C

Azure Active Directory for Domain Services

Azure Information Protection

Multi-Factor Authentication

Security Information

Integration

API Management

Event Grid

Logic Apps

Service Bus

Internet of Things

API Management

Azure Cosmos DB

Azure Digital Twins

Azure IoT

Azure Maps

Azure Sphere

Event Grid



# Keynote

# Kodak alaris

**Dan Hurst**

[dan.hurst@kodakalaris.com](mailto:dan.hurst@kodakalaris.com)

**Steven Braunschweiger**

[steven.braunschweiger@kodakalaris.com](mailto:steven.braunschweiger@kodakalaris.com)



# Our Story

Formed in 2013, Kodak Alaris is an independent, global technology company.

Kodak Alaris is a hundred year-old start-up! A new company formed from the unique combination of the rich brand heritage of one of the world's most iconic brands, Kodak, with the strong know-how of its Alaris Division, with a vision to deliver the power of imaging science solutions for businesses and consumers worldwide.

Alaris evokes many reference points, including speed and agility inherited from the Latin alacritas, which literally means “lively”. The sound of the word lends itself to a sense of soaring above the competition, swiftly solving customer problems.

- Owned by U.K. pension plan for historical Eastman Kodak Company employees
- Independent, private company
- Legal entities in 27 countries
- Manufacturing sites: US, Brazil, China
- \$850M revenue, 2272 employees
- Headquarters: Hemel Hempstead, UK
- Business Unit HQ: Rochester, NY, USA
- Employee Headcount
  - Americas (LAR: 235, US & Canada: 1067)
  - APAC: 436
  - EMEA: 398

# Company Strategy

## **The Kodak Alaris Mission**

Transform and grow the Kodak Alaris portfolio to create value.

## **The Kodak Alaris Vision**

To be recognized by the market as the leading provider of product and services across the Kodak Alaris portfolio.





# Kodak Moments

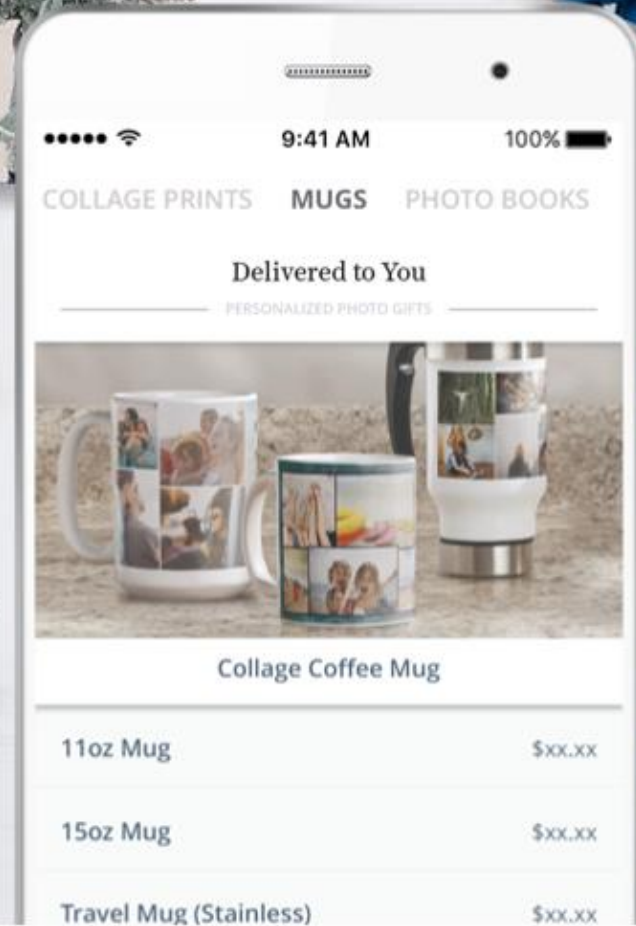
## Photo Printing and Retail Technology

### Website & Mobile App

Kodak Moments gives consumers the digital tools and creative opportunities to turn their special moments into lasting keepsakes—from mugs to calendars to life-size prints on canvas. Using the intuitively designed Kodak Moments website or mobile app, people can edit their photos, lay out their selections in hardbound photo books or calendars, and have the special memento in their hands only days later—to keep or to give. We also created The Kodak Moments Project, which connects cultures from around the world, letting people share photos and 15-second videos of their most cherished moments.

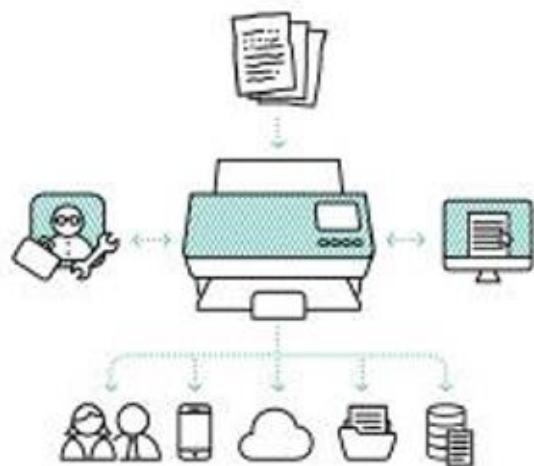
### Retail Experience

Kodak Moments' solutions for retailers give customers a dependable way to bring new consumers into their stores—providing them with premium-quality photo prints from their digital devices or memory cards. Self-service kiosks let consumers print directly from their mobile devices. People can wirelessly send their photos to the kiosk, edit the photos as needed, and print on premium Kodak photo paper—all in minutes.



# Alaris

## Scanner Technology



Your business.  
Your information.  
Your solution.

**Alaris**  
makes sense

### Information Capture Solutions

Alaris is a leading provider of information capture solutions that simplify business processes. We exist to help the world make sense of information with smart, connected solutions powered by decades of image science innovation. Our award-winning range of scanners, software and services are available worldwide, and through our network of channel partners.

### Designed to work better together

Tight technology integration between hardware and software give you smarter, more efficient ways to capture information. Learn more about our latest innovations to help power your document workflows.



**Alaris**



# PPF

## Paper, Photo Chemicals & Film

### Capture Artfully. Print Impactfully.

Kodak Alaris delivers the world's best films, helping photographers take powerful images with the most comprehensive and technically superior film portfolio available today. Software that powers productivity and profitable new ideas. Our photo print technology outperforms in the ways most important to you and your clients: image permanence and image quality.

The world's best color negative, reversal and black & white films. We continue to innovate and enhance our film family in response to today's photographer. The world is your canvas; expand your creativity through the control and expression of film capture. From the discerning professional to the carefree amateur, we offer films for all occasions.





# AI Foundry

## Financial AI Technology

### Actionable Intelligence

AI Foundry combines proprietary software, machine learning and artificial intelligence to transform raw data into actionable intelligence. Their solutions provide businesses and government agencies with greater knowledge about their strengths, deeper insights into their customers or constituents, and a road map to put this knowledge to use. With the power of actionable intelligence, AI Foundry helps customers get measurable results that directly impact their bottom line and shape their future.

### Be Future-Ready with Actionable Intelligence







AI Foundry's Agile Solutions bring together the front and back office creating a digital ONE OFFICE to streamline processes across the entire organization. With a single end to end solution supporting the classification and extraction of documents and data, lenders can improve accuracy, reduce errors, and increase throughout.



# Global Footprint



57 locations depicted in 4 continents

|                   |   |                    |   |              |   |
|-------------------|---|--------------------|---|--------------|---|
| Home/Remote Users |  | Medium Office      |  | Data Centers |  |
| Small Office      |  | Large Office / MFG |  | Warehouses   |  |

# Azure Usage

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- Infrastructure as a Service (IaaS)
  - Microsoft Dynamics AX 2012 R3 ecosystem
  - Mail relays, FTP, sFTP, AAD Connect, App Proxy Connector
- Platform as a Service (PaaS)
  - Alaris public web (on SiteCore), some internal web sites
  - MSSQL as a Service, Azure App Service Web App (IIS as a Service), Azure Files
  - Azure DevOps
  - IoT services, microservices, web services
  - Docker Swarm (with path towards Kubernetes) orchestration of Docker containers
  - Azure CLI & Azure Resource Manager (ARM) templates for deployment of Infrastructure as Code and CI/CD
- Software as a Service (SaaS)
  - Microsoft M365 E5 including the full security suite
  - Microsoft D365 for Sales (MS CRM)
  - Microsoft D365 for Finance & Operations – project just getting started
  - Power BI

# M365/O365 E5 SKU Usage

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- Identity and Security

- Identity Protection, Privileged Identity Management, Azure Information Protection, Cloud App Security
- Intune Device Management – Intune Mobile Application Management for corporate & BYOD devices
- Conditional-Access and Risk-Based Multi-Factor Authentication
- Windows Defender ATP (workstation), Office ATP (Office/Outlook/SharePoint), Azure ATP (Domain Controllers)
- Threat Intelligence & Microsoft Intelligent Security Graph tie all these tools together
- AAD App Proxy for secure remote access and B2B guest access to on-premise web apps
- SSO – Desktop and SaaS

- Skype for Business → Teams

- SfB deployed globally for audio and video conferencing, screen sharing, chat – 99.25% CQD good call quality
- PSTN Conferencing enabled elimination of \$500K w/Intercall and 60% of desk phones
- PSTN Calling under evaluation
- Full conversion to Teams planned by Q4 2019
- Integrating Teams to Atlassian tools
- Teams for guests has really opened up external collaboration

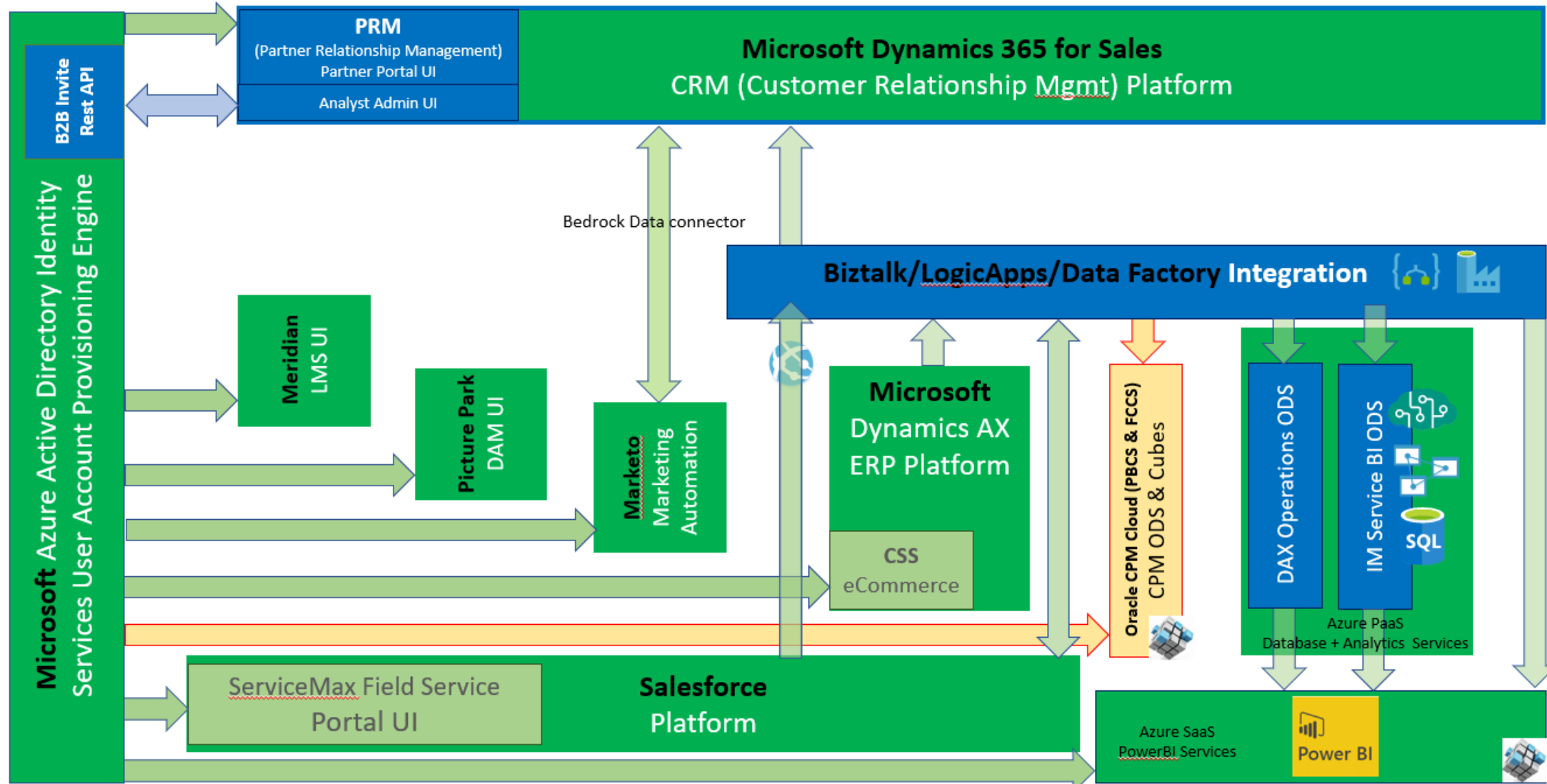
# Lego Diagram Phase 1

## Alaris Enterprise Portals & Reporting Architecture Phase1

Stable

Enhancing

Tactical





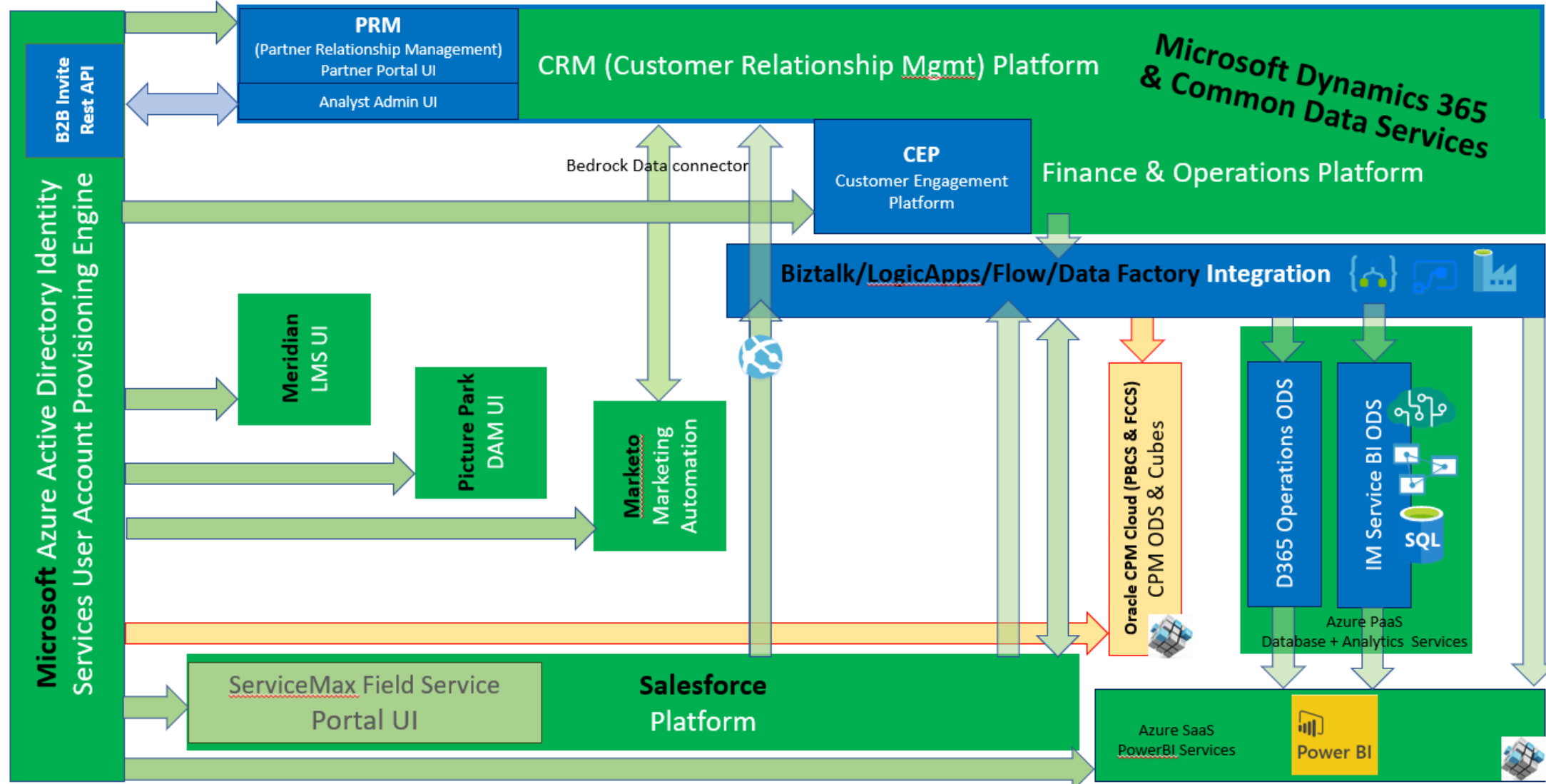
# Lego Diagram Phase 2

## Alaris Enterprise Portals & Reporting Architecture Phase2

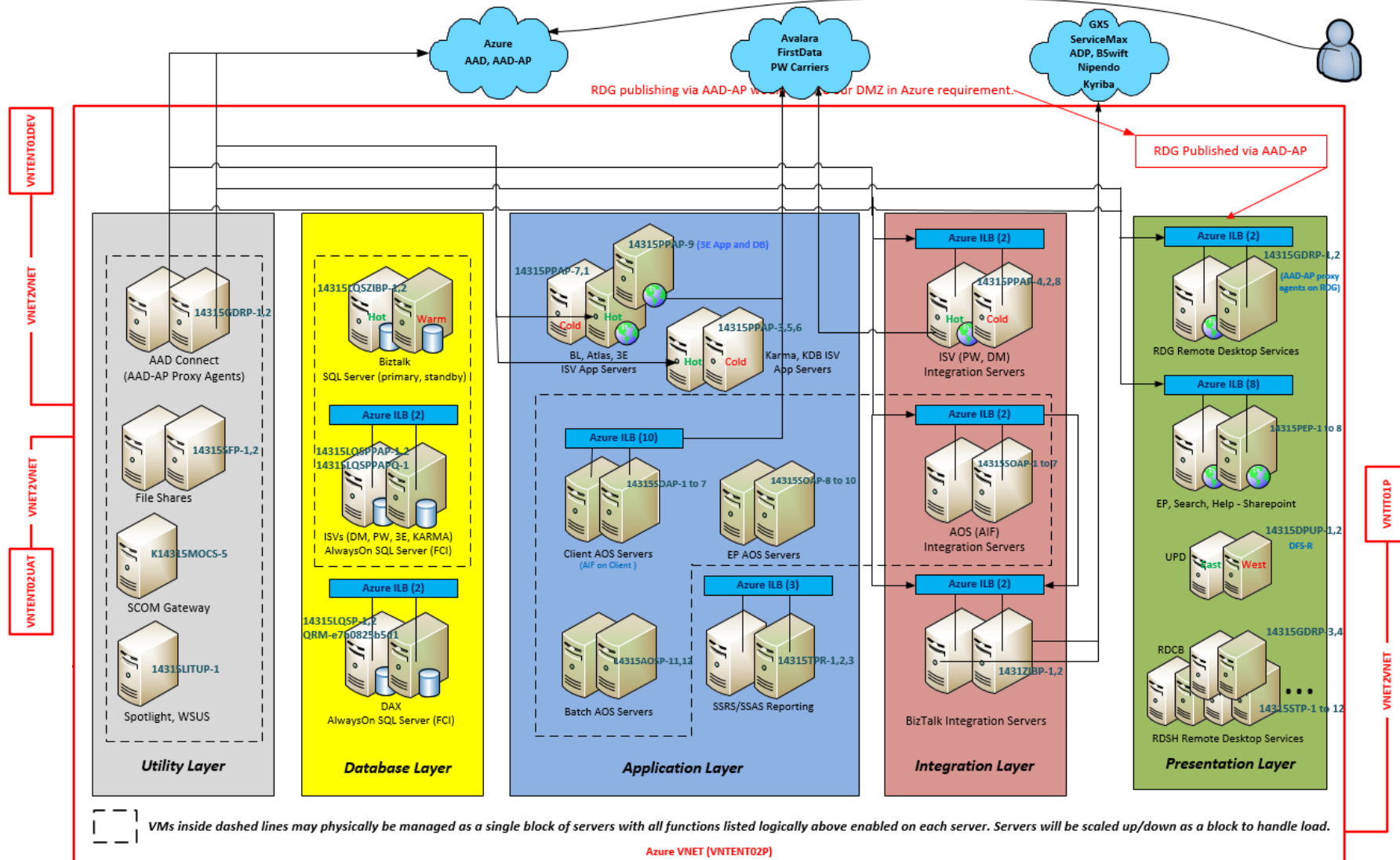
Stable

Enhancing

Tactical

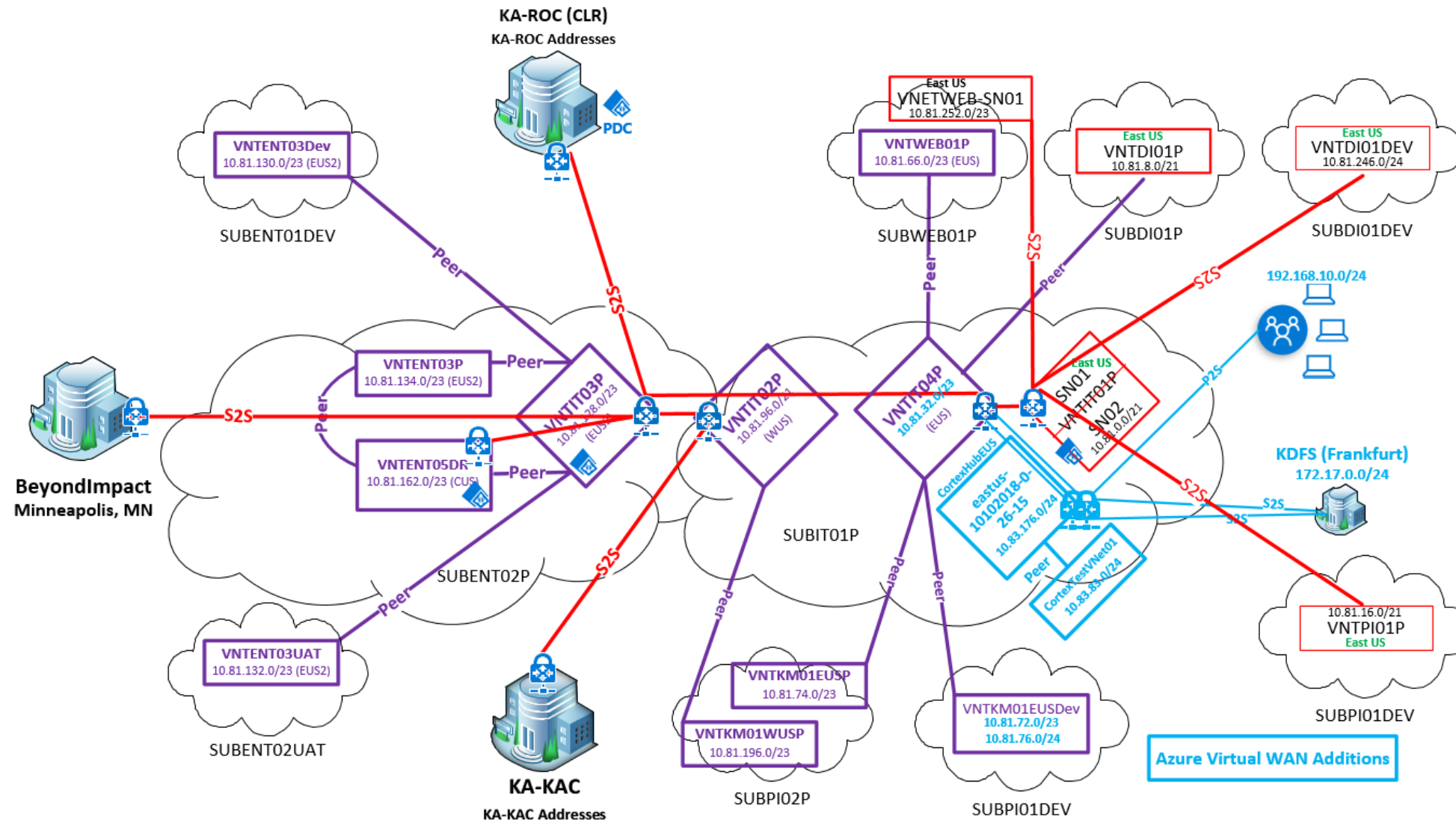


# Schematic Diagram of DAX 2012 R3 Deployment in Azure





# Current State Azure Network Diagram



# Governance - Management Groups & Policy

| Kodak Alaris <b>Management Group</b> and <b>Subscription</b> Hierarchy |   |  |
|--|---|--|
| MG-KODAKALARIS-Subscriptions   |   |  |
|  | MG-AIFOUNDRY-Subscriptions                            |  |
|  |   | SUBAIF01Dev<br>SUBAIF01P <i>(future)</i> |
|  | MG-ALARIS-Subscriptions                               |  |
|  |   | SUBDIO1DEV<br>SUBIM02P                   |
|  | MG-MOMENTS-Subscriptions                              |  |
|  |   | SUBPIO1DEV<br>SUBPIO2P                   |
|  | MG-KDFS-Subscriptions <i>(managed by Diconium)</i>    |  |
|  |   | SUBKDFS01DEV<br>SUBKDFS01P               |
|  | MG-ENTERPRISE-Subscriptions                           |  |
|  | MG-ERP-Subscriptions <i>(managed by BeyondImpact)</i> |  |
|  |   | SUBENT01DEV<br>SUBENT02P<br>SUBENT02UAT  |
|  | MG-IT-Subscriptions                                   |  |
|  |   | SUBIT01DEV<br>SUBIT01P<br>SUBWEB01P      |

If time permits, we can walk through an example Management Group and Policy setup.



Microsoft  
PowerPoint Presentation

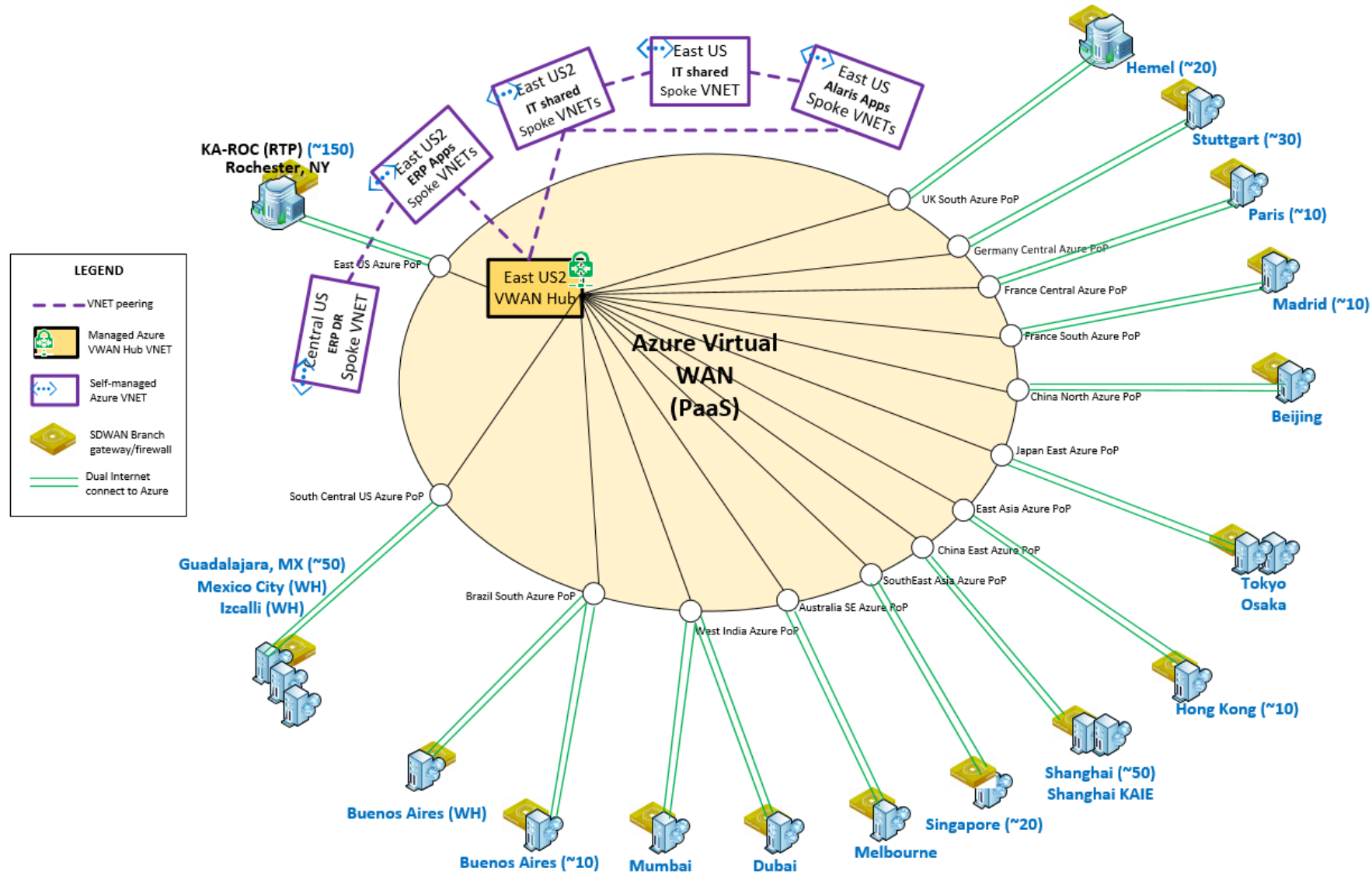
User account **RBAC** assigned at the left is inherited through the hierarchy to the right.

# What's Next?

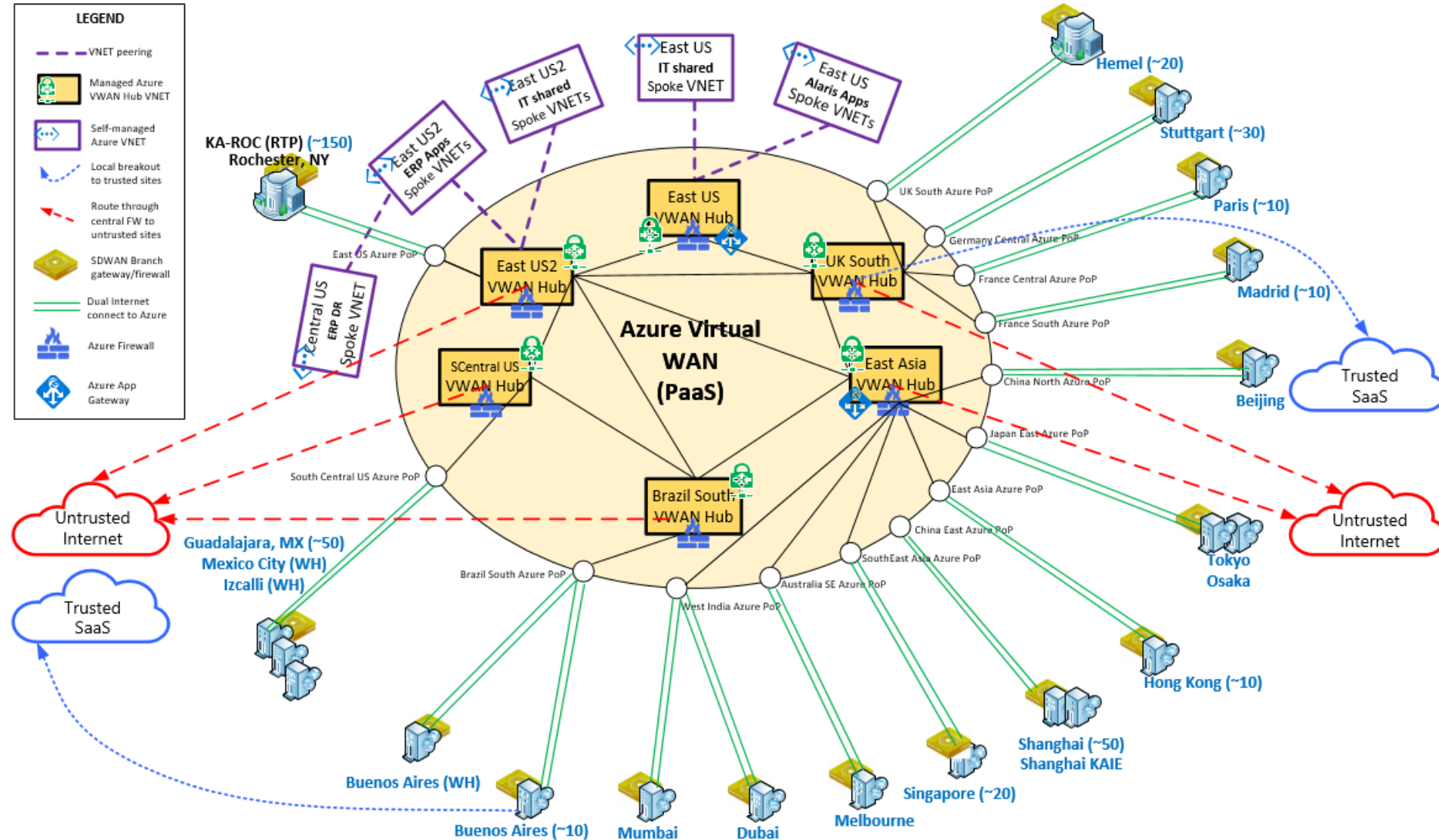
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- Take one business unit and make it almost exclusively Azure based
  - Upgrade Dynamics AX 2012 R3 (IaaS) to Dynamics 365 Finance and Operations (SaaS)
  - Eliminate the dependence on the Colo and migrate the workloads to Azure
  - Testing Windows Virtual Desktop to move CAD apps to Azure
  - Evaluate PowerApps to replace Nintex workflows in SharePoint to eliminate on-premise SharePoint
  - Move file-share contents to OneNote, OneDrive, SharePoint, Teams, or Azure Files
  - Replace MPLS with lower cost ISPs and broadband connections with S2S VPNs, Firewalls, and SDWAN
  - Add Internet breakouts at every site to get to the MS edge as quick as possible
  - Further evaluate Azure as WAN for the global telecom backbone
  - Consider PSTN Calling to replace portions of our hosted 3<sup>rd</sup> party VOIP solution
  - Replace much of System Center with Azure equivalents

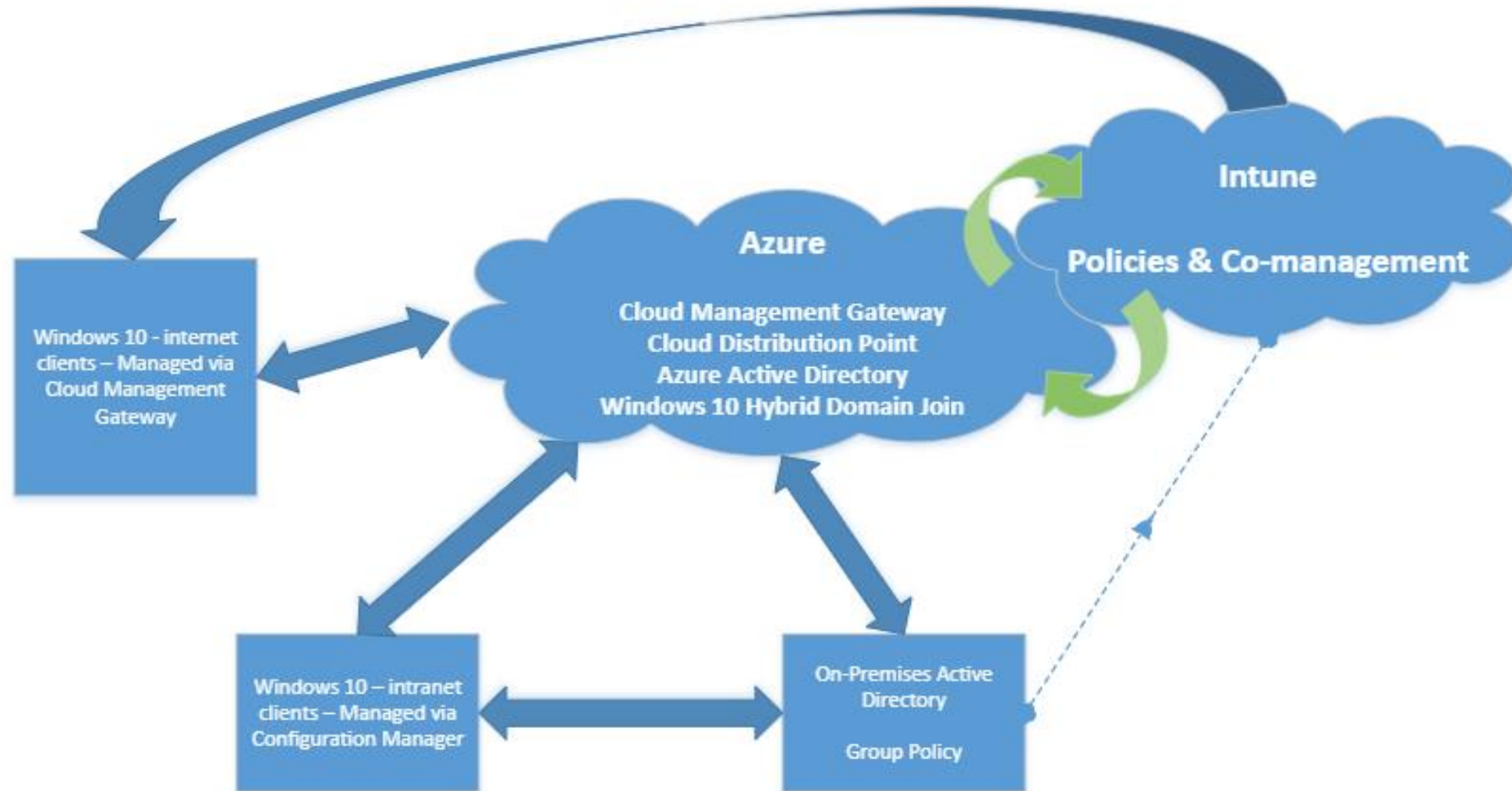
# Evaluating Azure as WAN with SDWAN (v1)



# Evaluating Azure as WAN with SDWAN (v2)



# Windows 10 Co-Management Project





# Learnings

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- **Build relationships with program managers & product teams**
  - Get involved in PoCs and private previews and contribute detailed feedback
  - These relationships can enable you to influence the designs to better meet your needs
- **Change is rapid – pay close attention to announcements to ensure:**
  - You aren't deploying services that are being deprecated
  - You are aware of changes coming to your tenant that may help or hurt you
  - Subscribe to Azure Updates and O365 Message Center: <https://azure.microsoft.com/en-us/updates/>
    - <https://docs.microsoft.com/en-us/office365/admin/manage/stay-on-top-of-updates?view=o365-worldwide>
- **Microsoft conference sessions are excellent and are available on-demand**
  - Ignite 2018: <https://myignite.techcommunity.microsoft.com/videos>
  - Envision 2018: <https://myenvision.microsoft.com/videos>
  - Build 2018: [https://www.youtube.com/watch?v=LBsGSW2-qr4&list=PLlrXD0HtieHg7uB3\\_amVXvaRgxlcXLtYD&index=2&t=0s](https://www.youtube.com/watch?v=LBsGSW2-qr4&list=PLlrXD0HtieHg7uB3_amVXvaRgxlcXLtYD&index=2&t=0s)
  - Build 2019: <https://www.microsoft.com/en-us/build>
- **Azure Advisors is another excellent way to interact with Microsoft experts**
  - Nominate your organization here: <https://cloudengineering.microsoftcrmportals.com/nomination/>

# Kodak alaris

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