

DATA RESOLUTION

Working Remotely with Dynamics GP

Hosting GP in the Cloud



www.dataresolution.net

BACKGROUND

- BS Business – Finance
- Dynamics GP in 1993
- Hosting Dynamics Since 1999
- MS - EDP Auditing
- Working with Partners and Clients to Master the Cloud



USING DYNAMICS GP REMOTELY

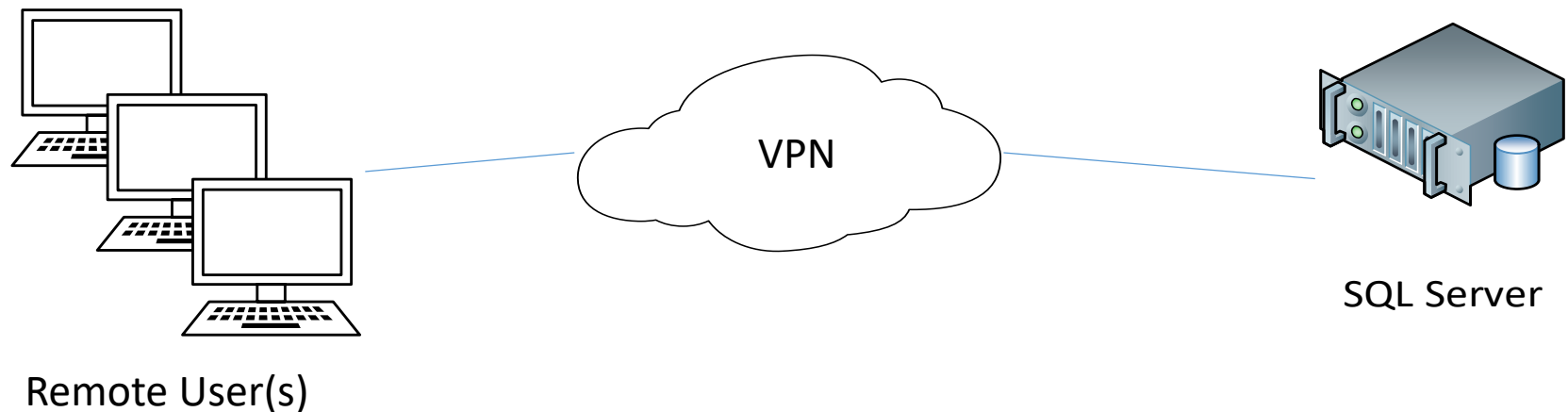
- Problems within using tools like TeamViewer, PCAnywhere, VPN's, etc.
- Best Practice Alternatives
- ISV products and hosting
- Backups and Disaster Recovery

PROBLEMS WITH REMOTE ACCESS

- TeamViewer, PCAnywhere, LogMeIn
- These solutions are convenient for occasional remote access to an office workstation, but don't address some key issues:
- Requires Consistent, Reliable Access to the Remote Workstation
 - When the office internet is down, you can't work
 - Office Workstation needs to be powered up before you can access
 - System Maintenance for GP needs to be performed on each individual workstation
 - Requires Duplication of Client Workstations
 - Network Security and Disaster Recovery

WHAT ABOUT VPN ACCESS?

- Dynamics GP is a Client Server Application
- Performance relies on the GP Client and Database being on the same network Backbone
- Trying to connect a workstation over the internet usually results in unacceptable speed and performance.



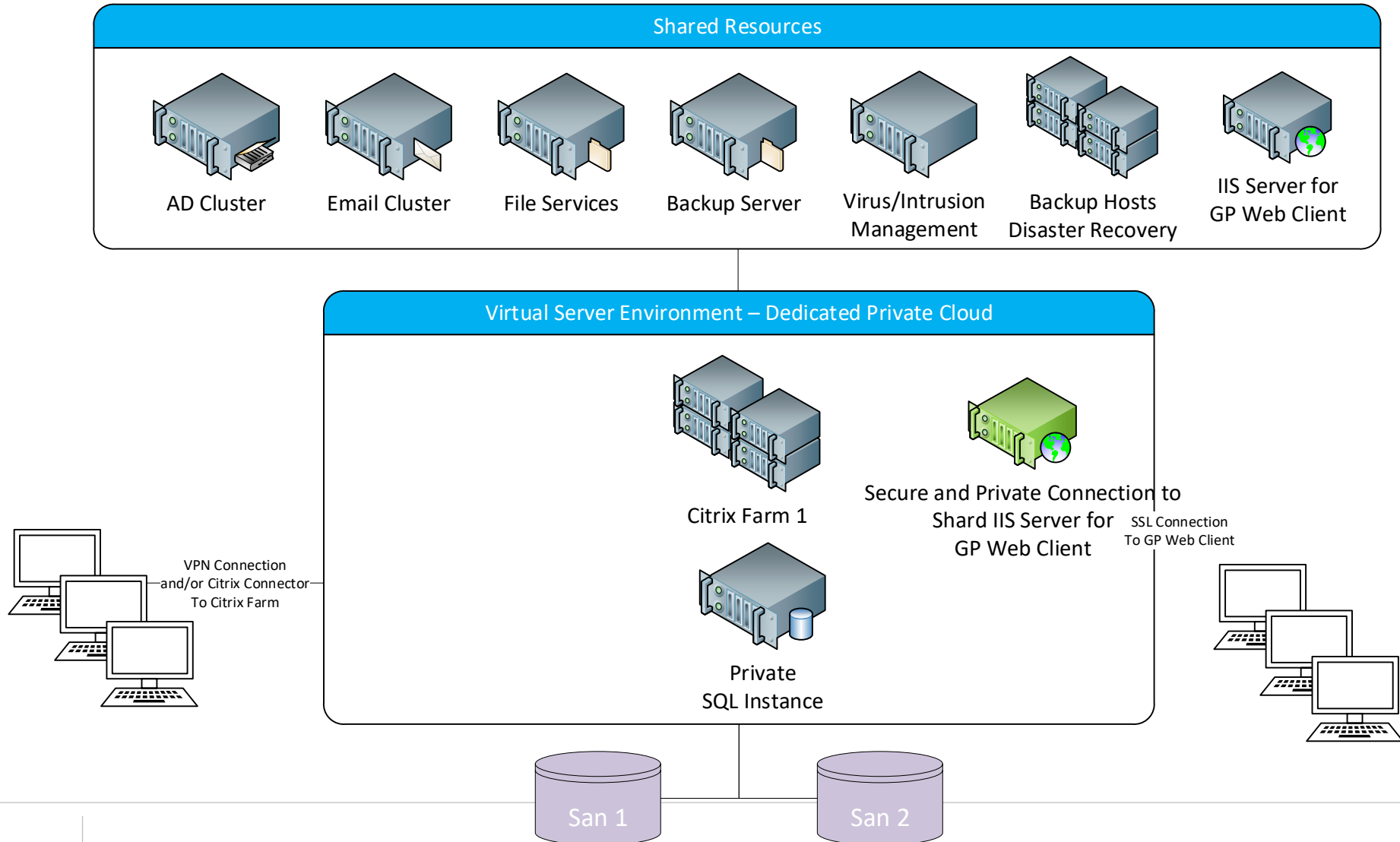
WHAT ARE THE ALTERNATIVES TO REMOTE CLIENT SYSTEMS

- Reliable Access Using Secure Remote Server Solutions
 - Windows Remote Desktop Server
 - Citrix
 - Web Client for GP

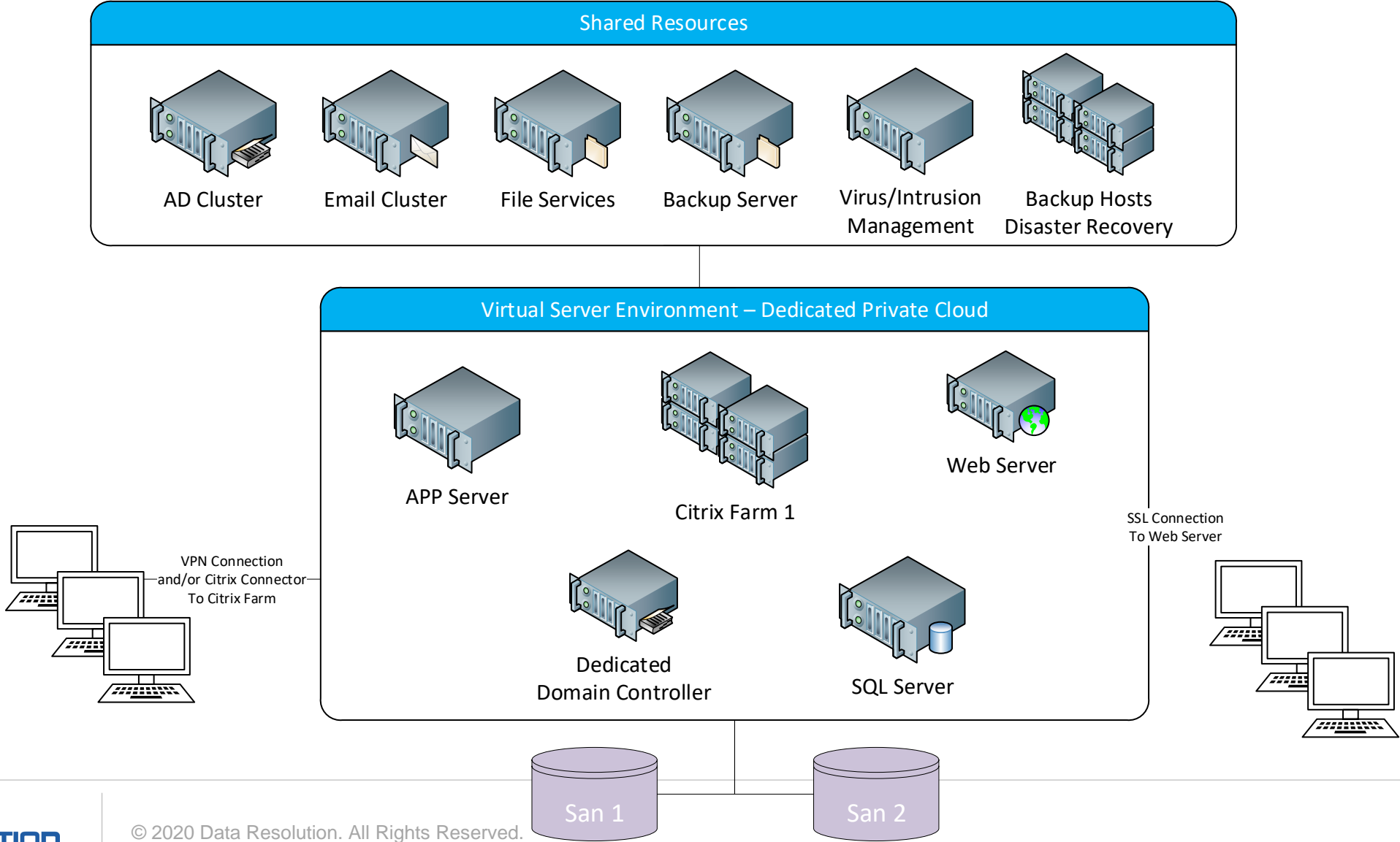
RESPONSIBILITY MATRIX

Typical Dynamics Infrastructure Responsibilities	In-House/ On Premise	Public Cloud ie. Azure/AWS	Managed Cloud for Dynamics
Dynamics Data Migration and Upgrades	Client/Dynamics Partner	Client/Dynamics Partner	Client/Dynamics Partner*
Dynamics Service Packs	Client/Dynamics Partner	Client/Dynamics Partner	Client/Dynamics Partner*
Dynamics ISV Setup and Configuration	Client/Dynamics Partner	Client/Dynamics Partner	Client/Dynamics Partner*
Optimize Infrastructure for Dynamics	Client	Client	CSP
Database Management and Tuning	Client	Client	CSP
Proactive Collaboration with Dynamics Partner	Client	Client	CSP
Disaster Recovery Built Around Dynamics	Client	Client	CSP
Server Operating System Patches	Client	Client	CSP
Infrastructure Planning and Management	Client	Client	CSP
Security Planning and VPN Configuration	Client	Client	CSP
Managing Server and Infrastructure Usage Costs	Client	Client	CSP
Scalable Server Infrastructure	Client	CSP	CSP
Broadband Redundancy at Datacenter(s)	Client	CSP	CSP
Geographic Redundancy	Client	CSP	CSP
Electrical Power Redundancy	Client	CSP	CSP

SOME SHARED - DEPLOYMENT MODEL



MOSTLY PRIVATE - DEPLOYMENT MODEL



HOW ABOUT DYNAMICS ISV'S HOSTED IN THE CLOUD?

Most Dynamics GP Implementations have multiple ISV's

MOST ISV'S INSTALL AND BEHAVE THE SAME WAY WHEN HOSTED IN THE CLOUD

- If the ISV is a “Chunk” File Style of Customization, installation is similar to installing on your own workstations.
- It's just installed on the Cloud server instead
 - Mekorma
 - Binary Stream
 - Rockton Solutions

SOME ISV'S REQUIRE ADDITIONAL CONSIDERATIONS

- On-Premise requirements
 - Warehouse Management Scanners
 - Designated Printers
 - Document Management Scanners
- These types of ISV's may require a VPN between your location(s) and the datacenter servers

WHAT ABOUT DISASTER RECOVERY?

Disaster Recovery Planning is More than a Backup!

WHAT ARE COMMON DISASTERS?



**Fire and Related
Water Damage**

WHAT ARE COMMON DISASTERS?



**Rain or Water
Leaks in Building**

WHAT ARE COMMON DISASTERS?



Flooding

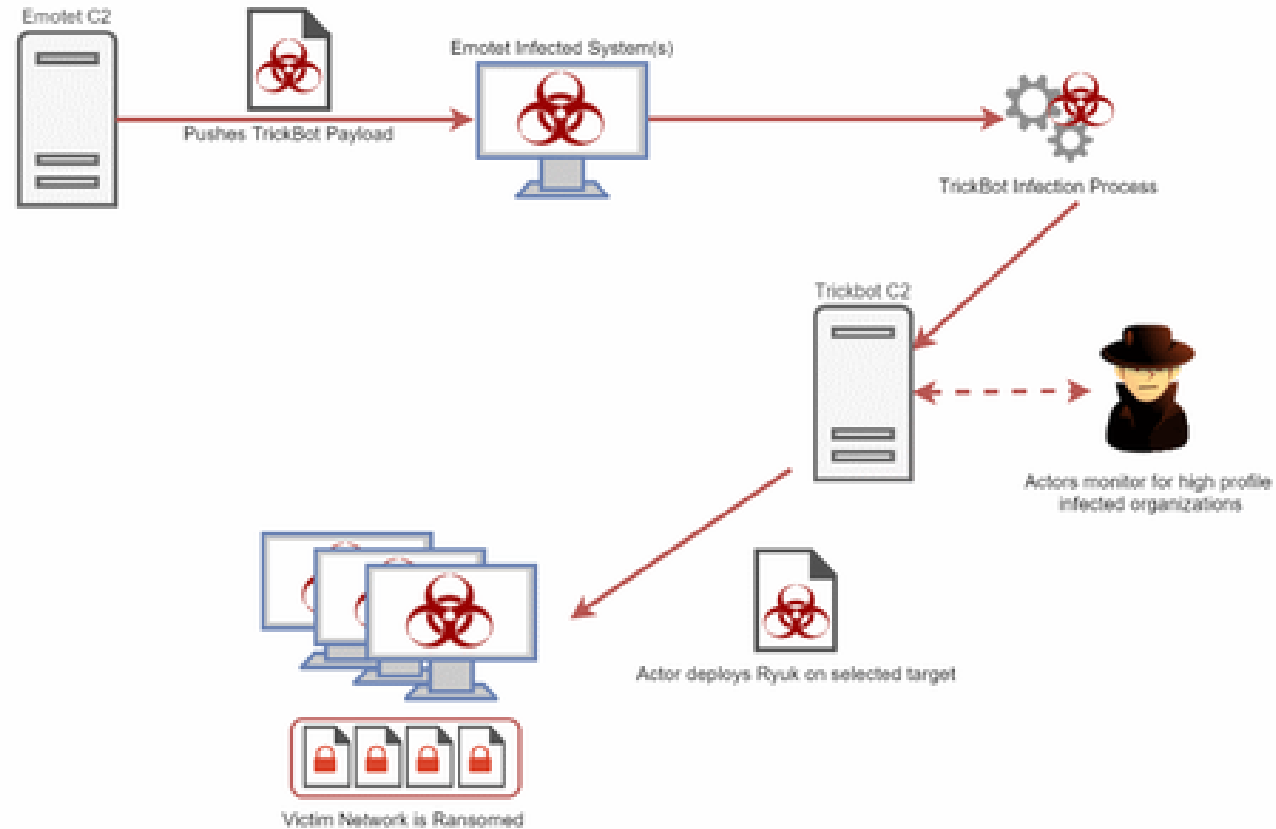
WHAT ARE COMMON DISASTERS?



Earthquake

EXAMPLE OF RANSOMWARE VIRUS INFECTIONS

- Attacks typically comes in the form of an email attachment
- Once opened, the virus automatically downloads onto the victim's computer
- The infection goes unnoticed at first
- The virus spreads each time pre-determined tasks are completed by the user
- The virus grabs and deploys additional malware, which steals the user's credentials and other identifying information
- The malware disables AV services and harvests the user's data
- The user's email account is hijacked and begins automatically sending out phishing emails, spreading the virus to other users and systems
- Once all of the user's data is compromised, the virus drops the ransomware
- The ransomware encrypts all data and the attacker demands a ransom is paid



DISASTER RECOVERY PLANNING IS MORE THAN A BACKUP!

RTO (Recovery Time Objective)

How Long Can you Afford to be Down?

RPO (Recovery Point Objective)

How Much Data can you Afford to Lose?

RTO (RECOVERY TIME OBJECTIVE)

48 Hours

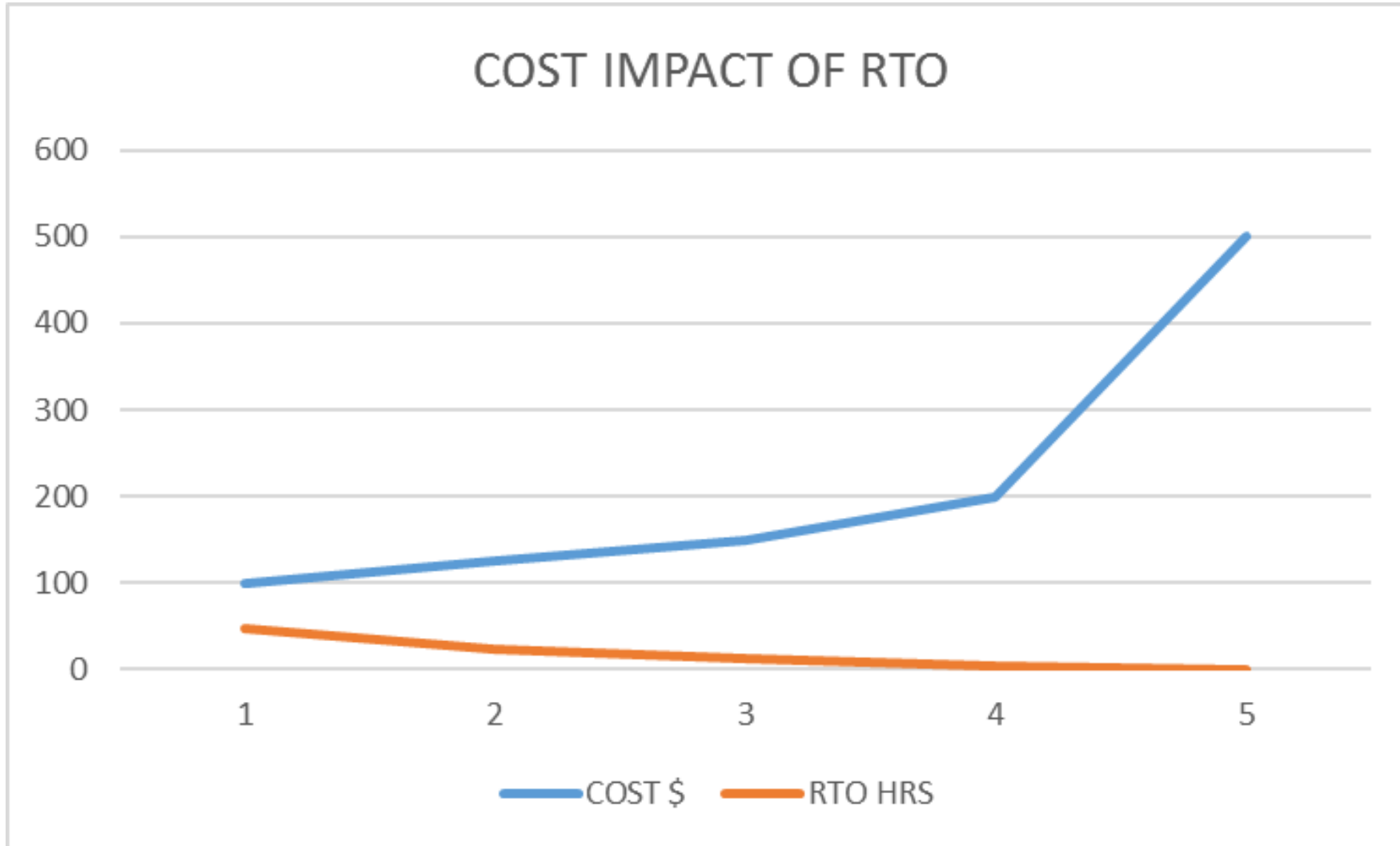
24 Hours

12 Hours

4 Hours

0 Hours

RTO GOALS AND COST IMPACT



Key Factors

1. Number of Servers
2. System Complexity

RPO (RECOVERY POINT OBJECTIVE)

24 Hours

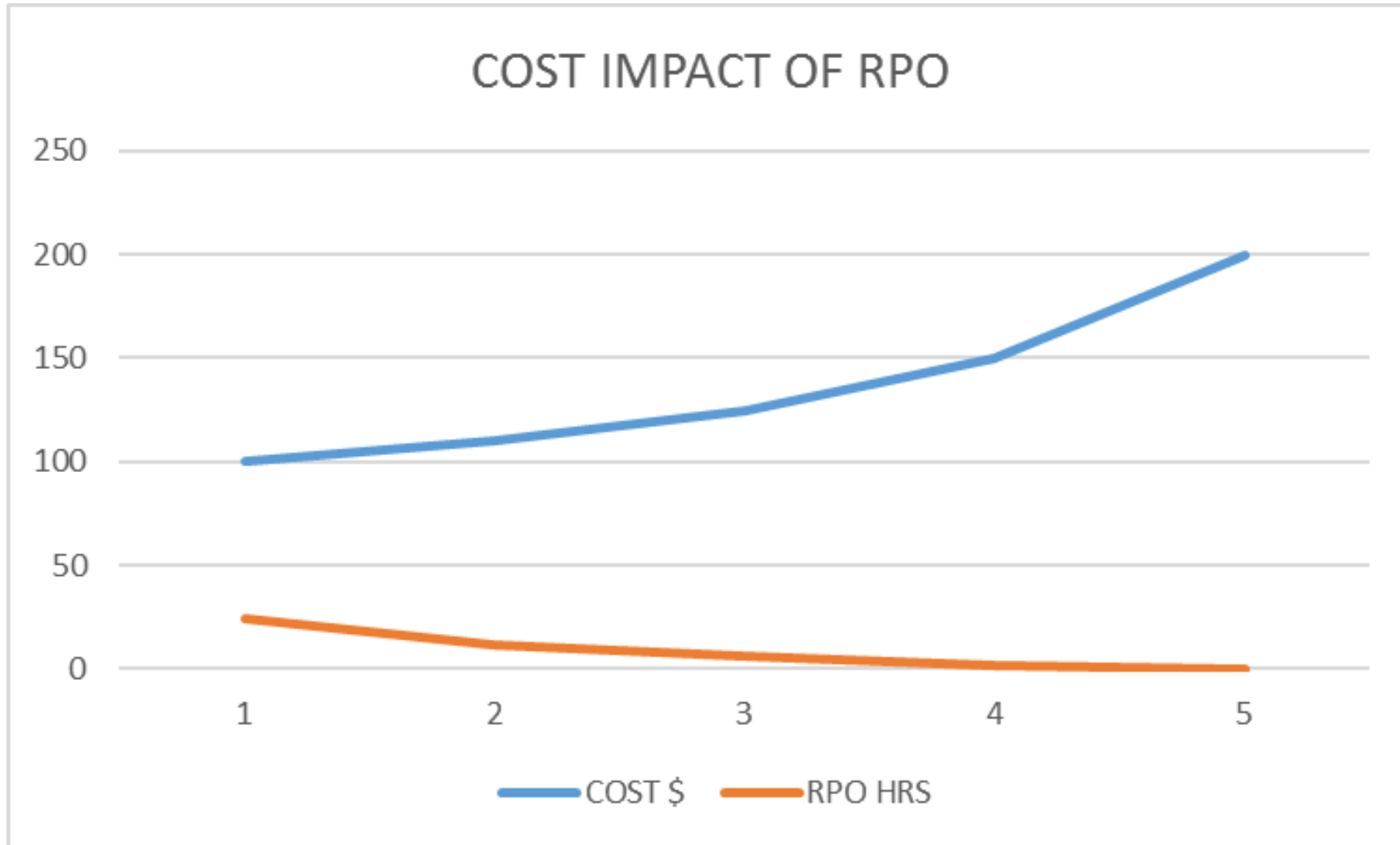
12 Hours

6 Hours

2 Hours

1/4 Hour

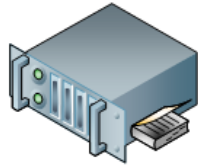
RPO GOALS AND COST IMPACT



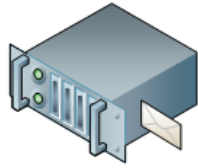
Key Factors

1. Data Size
2. # of Data Sources

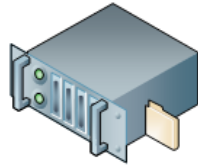
Shared Resources



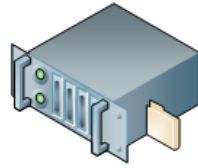
AD Cluster



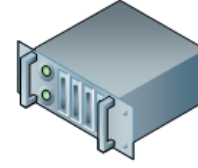
Email Cluster



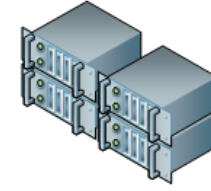
File Services



Backup Server



Virus/Intrusion
Management

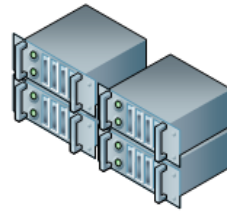


Backup Hosts
Disaster Recovery

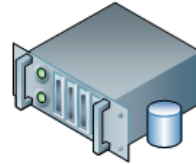


IIS Server for
Dynamics
Web Client

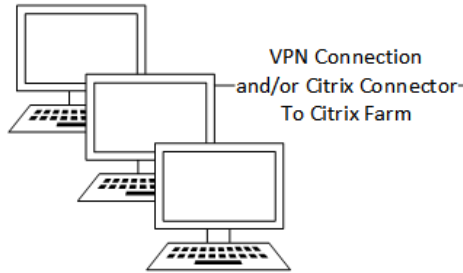
Virtual Server Environment – Dedicated Private Cloud



Citrix Farm 1



Private
SQL Instance



VPN Connection
and/or Citrix Connector
To Citrix Farm

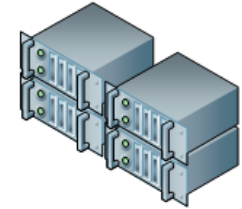


San 1

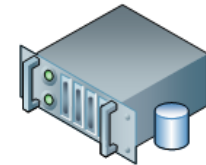


San 2

Disaster Recovery Site



Citrix Farm 1



SQL Server

Questions?

IF YOU'RE READY TO HOST GP, HOW DO YOU START?

“Measure Twice, Cut Once!”

CLOUD READINESS CHECKLIST

- Evaluate Workloads
- Verify Broadband
- Collaborate on a Migration Plan
- Confirm Maintenance and Support Strategy
- Understand the Financial Impacts
- Establish Timelines

COORDINATE WITH YOUR DYNAMICS PARTNER AND STAFF

TEST AND VALIDATE

GO LIVE

RESOURCES AVAILABLE

- GPUG
- <https://blog.dynamiccommunities.com/magazine/going-to-the-cloud-prepare-like-a-pro>
- Your Dynamics GP Partner
- Cloud Hosting Contact Information
 - Steve Tanner
 - steve.tanner@arguscg.com
 - 949-485-5677

A background image of a diverse group of people in a meeting or classroom setting, overlaid with a blue-to-yellow gradient. The people are looking towards the right side of the frame.

Thank You!