

# BACKUP PLANNING

## PROTECT ALL YOUR DATA

Google & O365 Environment, Email Services, Virtual Machines, SaaS Applications, Client Computers & Mobile Devices, Servers, LOB Applications, SharePoint & File Sharing Sites, Configuration Files, Anything Else

## IMPLEMENT THE 3-2-1 BACKUP STRATEGY

3 Copies of Your Data

2 Different Storage Media

1 Copy as a Cloud Backup, Preferably Immutable!

## USE IMMUTABLE STORAGE

Immutable: Unable to be Changed

Why? Ransomware often tries to delete backups first.

True immutable backups cannot be changed by *anyone* for a period of time.

## USE MULTIPLE BACKUP SYSTEMS

Why? Software can fail. Hardware can fail. Updates can break things.

Multiple Backup Systems provides redundancy.

## DEFINE KEY METRICS

RTO: Recovery Time Objective. How quickly you want to recover.

RPO: Recovery Point Objective. How much data can be lost between backups.

Faster RTO/RPO scores increase cost.

## TEST BACKUP & RECOVERY

Testing validates backups are not corrupt.

Testing validates you backed up everything you need.

Testing recovery proves it can be done when necessary.

