

# Why Cloud Backup Now?

Ashar Baig

Senior Director of Product Marketing

# Agenda.

- What is Cloud Backup & Restore (BUR)?
- Typical Cloud BUR Customer Errors
- Cloud BUR Future Challenges
- Urgent and Important End User BUR Problems
- Market Conditions Exacerbating BUR Problems
- How Cloud BUR Solution Addresses Today's BUR Issues
- Why Asigra?
- Questions

# What is Cloud BUR?

# Cloud BUR Characteristics.

- Multi-tenant
- Shared infrastructure
- User transparency
  - Incredibly easy to use
- Scalable & resource elastic
  - Flexible resources-on-demand
- Pay-as-you-go cost-effective pricing - IaaS
- Accessible as a loosely-coupled service
- Economies of scale

# SNIA's Cloud BUR Definition.

## **Service-Based**

- BUR application hosted and operated at a central location
- SP manages the BUR application, hw. resources and security settings
- End users can fine tune SLAs, policies, business rules, and access control

## **Ubiquitous Access**

- Standard networking protocols to transfer data between customer and SP sites
- Subscribers can back up data to any location that can access the service

## **Scalable and Elastic**

- Hw. resources available to subscribers on-demand

## **Metered by Use**

- Utility-based cost model – hw. resource usage can be monitored, controlled and reported

## **Shared and Secure**

- Data and configuration are kept virtually separate in a scalable, shared infrastructure
- Data mobility/portability between cloud repositories

# Cloud BUR – Optimized For:

- Economies of scale through on-demand and elastic infrastructure
- Multi-tenant architecture
- Utility pricing
- Accessible as a loosely-coupled service
- Consumption tracking, monitoring & reporting

# Cloud BUR – Needs to:

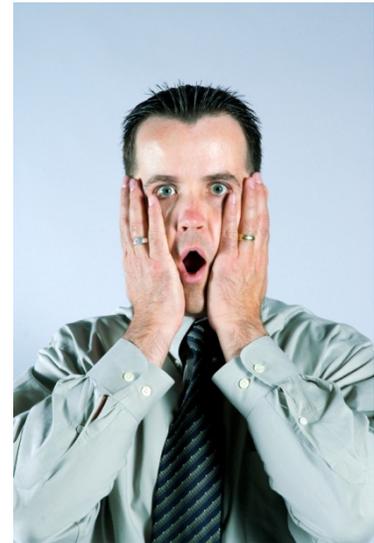
- Be non-disruptive
- Provide granularity for RPOs
- Provide granularity for RTOs
- Provide fast recoveries locally
- Provide fast off-site recoveries – Disaster Recovery
- Policy- and schedule-driven
- Automated – little or no human intervention
- Not application disruptive – no scheduled downtime

# Cloud BUR – Needs to: (Cont'd.)

- Cost less
- Secure
  - Data must be encrypted at all times
  - Designed for multi-tenant environments
- Easy to install, manage and deploy
- Reduce operational expenditures
- Protect servers, desktops and laptops – on the LAN & mobile
- Expand resources & capabilities elastically, cost-effectively
- Backup virtual & physical environments
- 8 ■ Support of Public, Private, Hybrid clouds

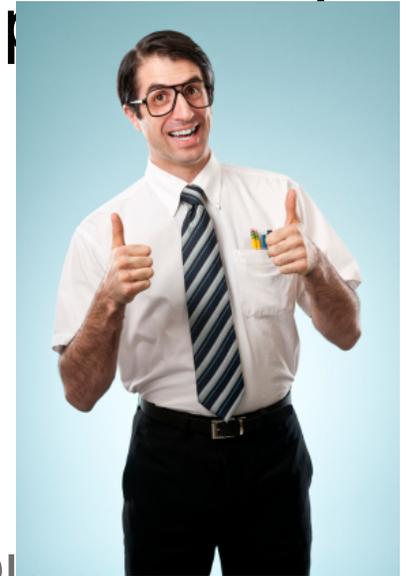
# Typical Errors Customers Make with Cloud BUR.

- Focus on backup and not recovery
- Limited resources to manage data backups & recoveries
- Finite (Private Cloud) vs infinite (Public Cloud) storage resources
- No storage tiering
- Do-it-in-house approach – no outsourcing to experts



# Who is Protecting Your Data?

- Often delegated to junior or entry level personnel
  - Lack data protection knowledge or experience
  - Experienced IT personnel rarely volunteer for this job
- **Self fulfilling prophecy**
  - High failure rate makes responsibility unpopular
  - Thankless job
  - Experienced personnel avoid like the plague
  - Inexperienced personnel more likely to make mistakes
    - Increases probability of failures



# Cloud BUR Future Challenges.

- Slow adoption of
  - Cloud BUR standards
  - Pay-per-use
  - Or SaaS business model of Public Clouds
- Security concerns
- Lack of demonstration of cost advantage



# Traditional Backup Software not Designed for Cloud.

## Traditional Backup software uses a Client Server Backup

- Requires a client software (Agent) on each server

## Legacy solutions are designed for data center backup

- Software is not designed to back up remote locations over the cloud

## Backup software is not designed to provide a service

- Designed for a single enterprise, no multi-tenant support

## Replication, Snapshots and Mirroring don't provide BUR

- Multiple copies of corrupted data are still corrupted

## Management overhead is high with agent based solutions

- Agent upgrades are manpower intensive and application disruptive



**Agents require an open port on the firewall – security risk.**

# Problems Cloud BUR Solves?

# Urgent End User BUR Problems.

## Failed recoveries and restores

- No recovery assurance
- Highly limited testing

## Recoveries and Restores are difficult and time consuming

## Increased liability

- Fines for non-compliance from regulatory authorities
- Job security
- Fiduciary risk



- **Backup is the means to an end but not the end**
- **The worst time to find out that you cannot recover your data is when you have to recover your data**

# Important End User BUR Problems.

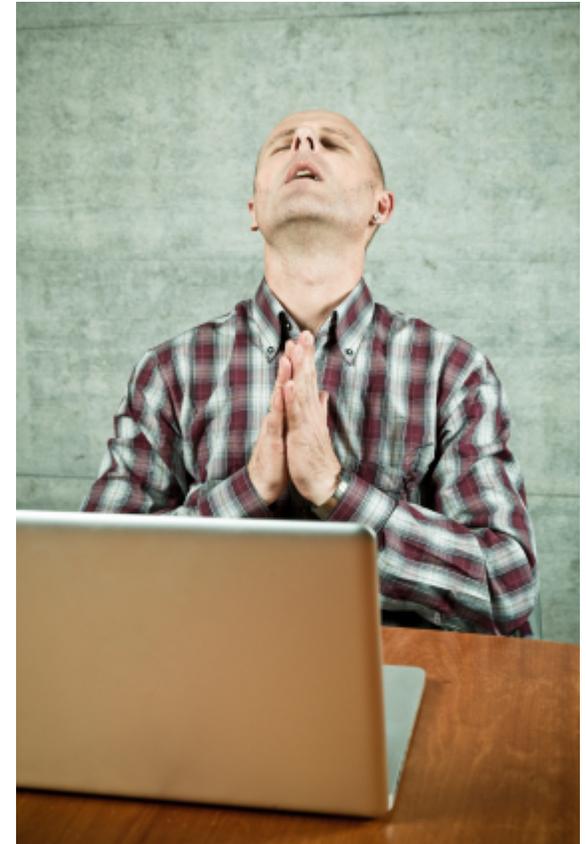
## Backups & Restores are Manually intensive

- Missed backup windows, compliance
- Difficult to add, operate, manage, upgrade, fix, etc.

## Highly application disruptive

## Escalating burden & costs

- Infrastructure, storage, admins, bigger RPOs, much longer RTOs
- Multiple point systems with no integration
- Soaring pressure, plummeting morale
- Protecting the data of mobile workforce



# Market Conditions Exacerbating Cloud BUR Problems.

## Data growth

- Too much data, too little time
- Proliferation of backup/recovery of virtual machines

## High dependence on digital content to conduct business

- Downtime and data loss tolerance is low

## Compliance & security requirements

- Uncompromising demands for privacy and retention
- eDiscovery
- Off-premise copies to aid Disaster Recovery (DR)

## Economic downturn and recovery impacting headcount

- Limited resources to manage it all



**30x increase in storage requirements  
over the next decade.**

# How Cloud BUR Addresses Today's BUR Urgent Problems.

## Recovery and Restore Assurance

Quick and efficient recovery

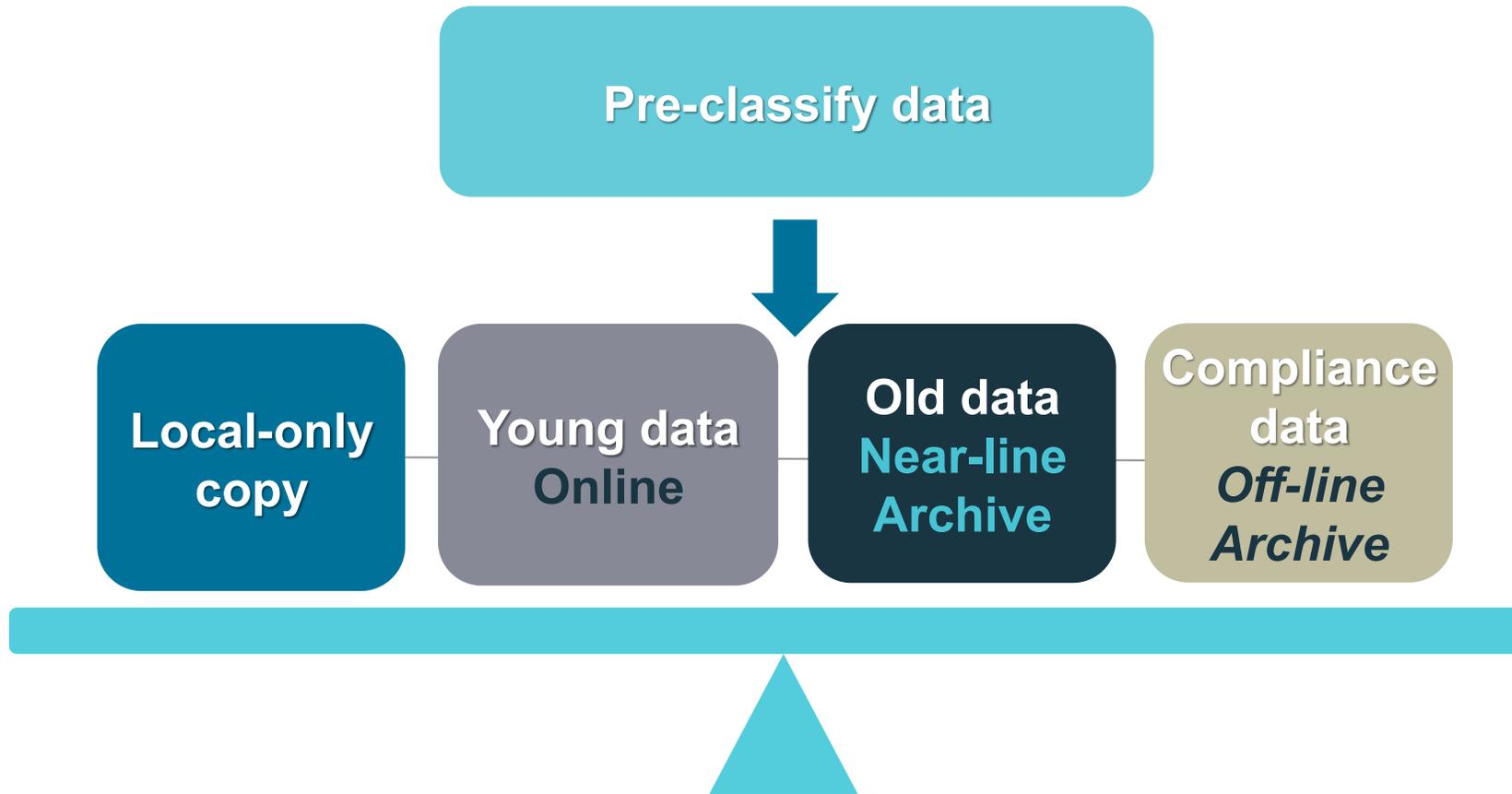
Off-premises copies aid  
Disaster Recovery (DR)

## Reduced liability

- Reduced fiduciary risk and liability

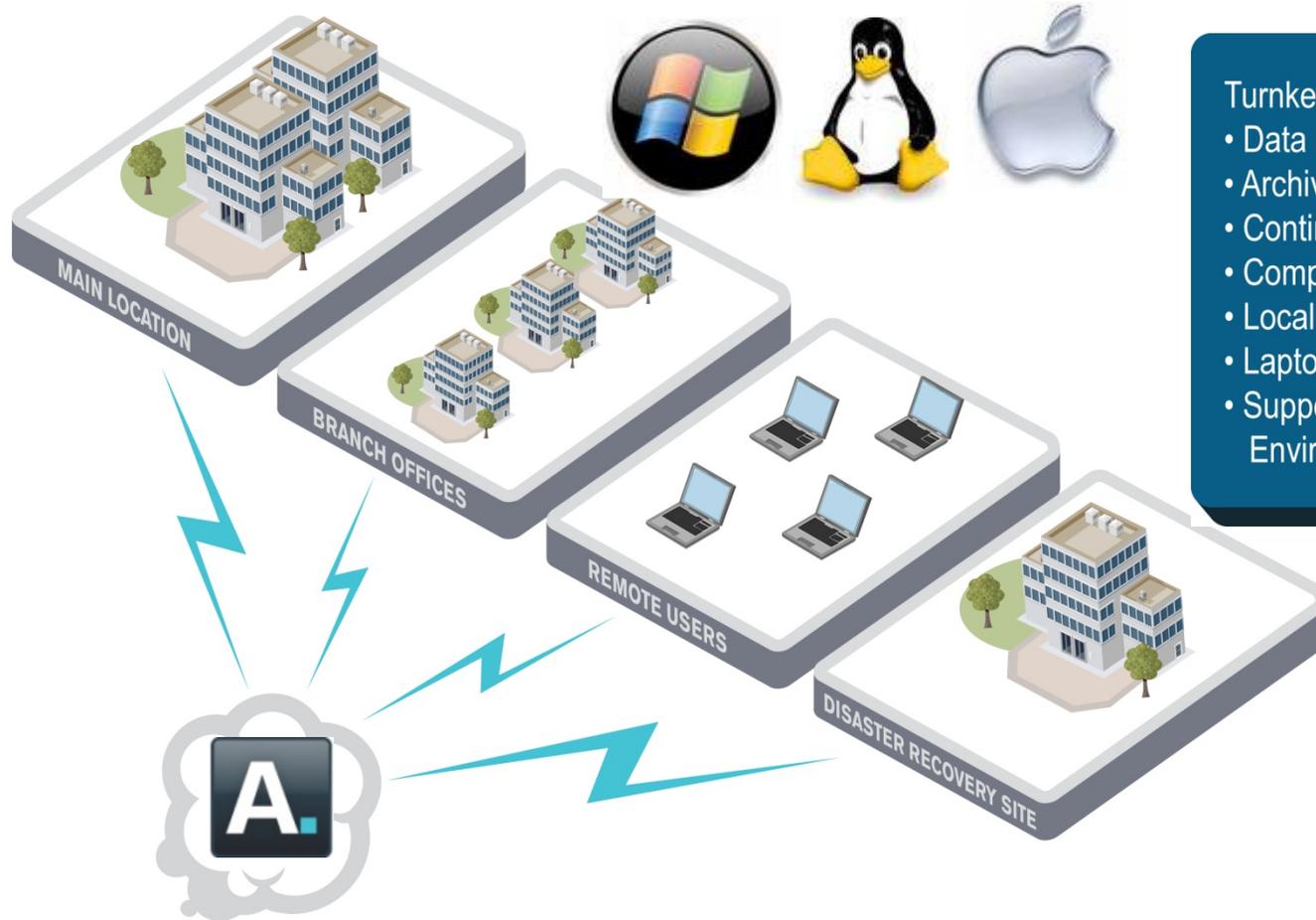


# Tiered Storage Repositories.



# Why Asigra?

# Turnkey Solution.



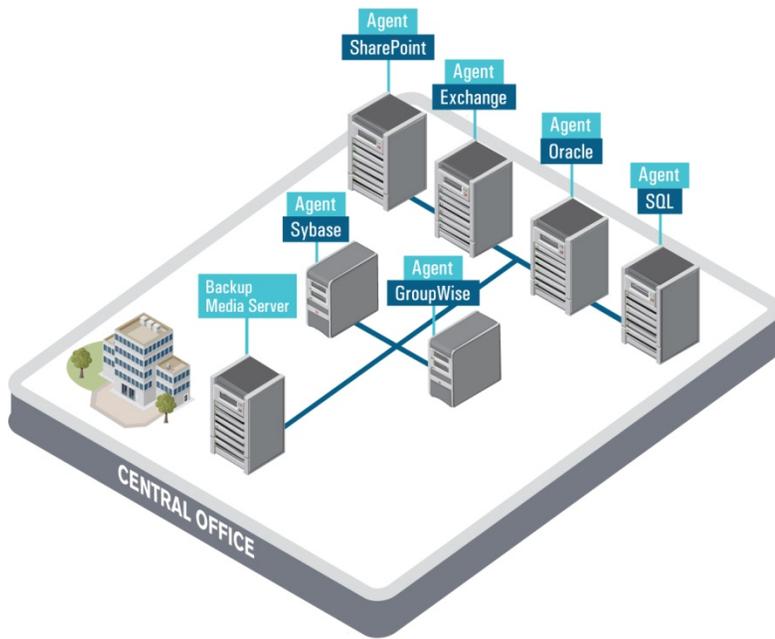
Turnkey solution for:

- Data Deduplication
- Archiving of old data
- Continuous Data Protection (CDP)
- Compression and encryption
- Local and offsite backup
- Laptop protection
- Support for Heterogeneous Environments

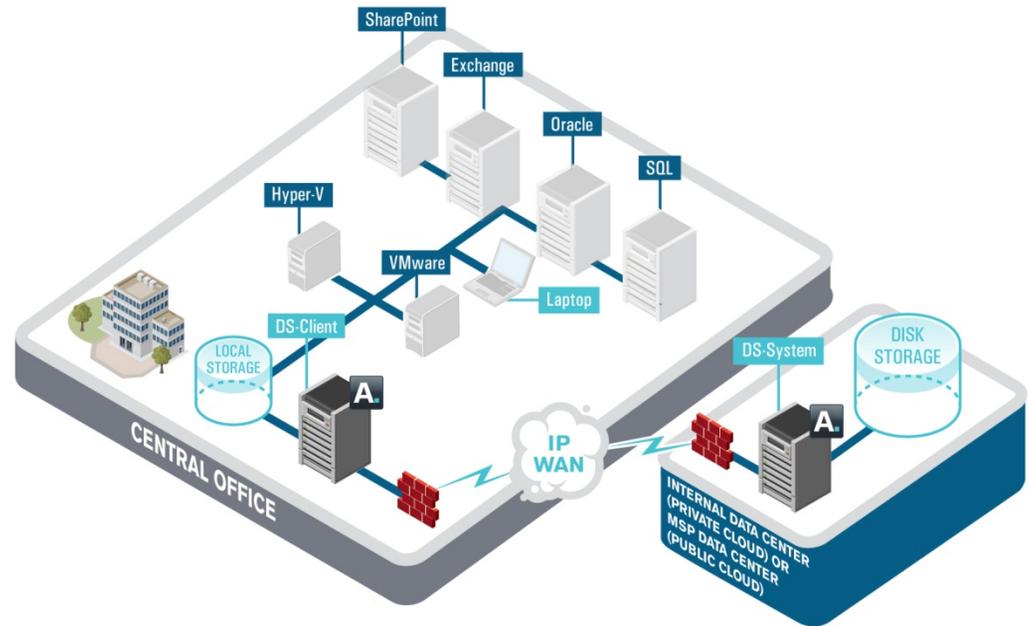
**End-to-end protection –  
Laptops to data centers**

# Low Touch, Agentless.

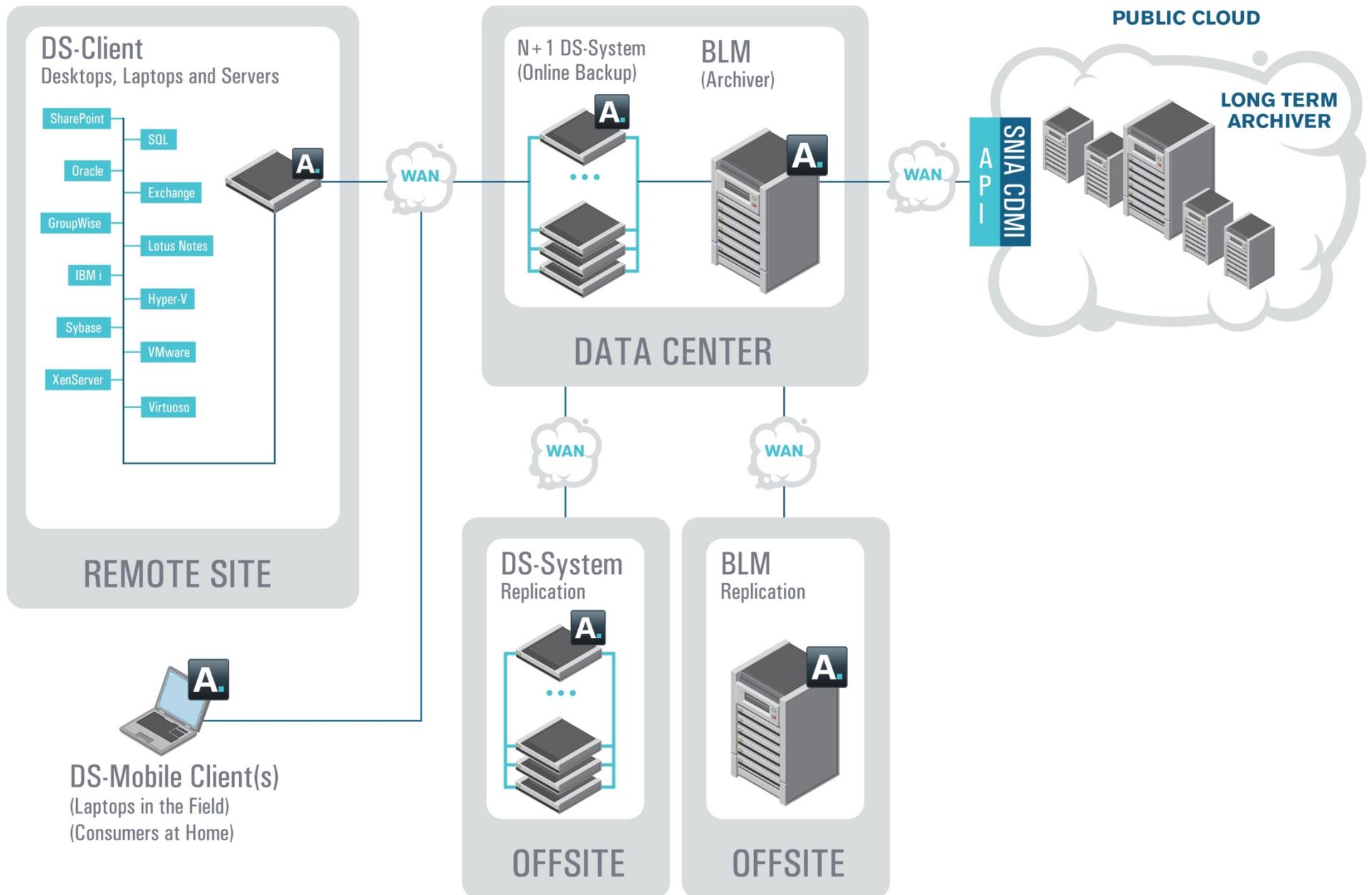
## TRADITIONAL AGENT BASED BACKUP SOFTWARE.



## ASIGRA = AGENTLESS.

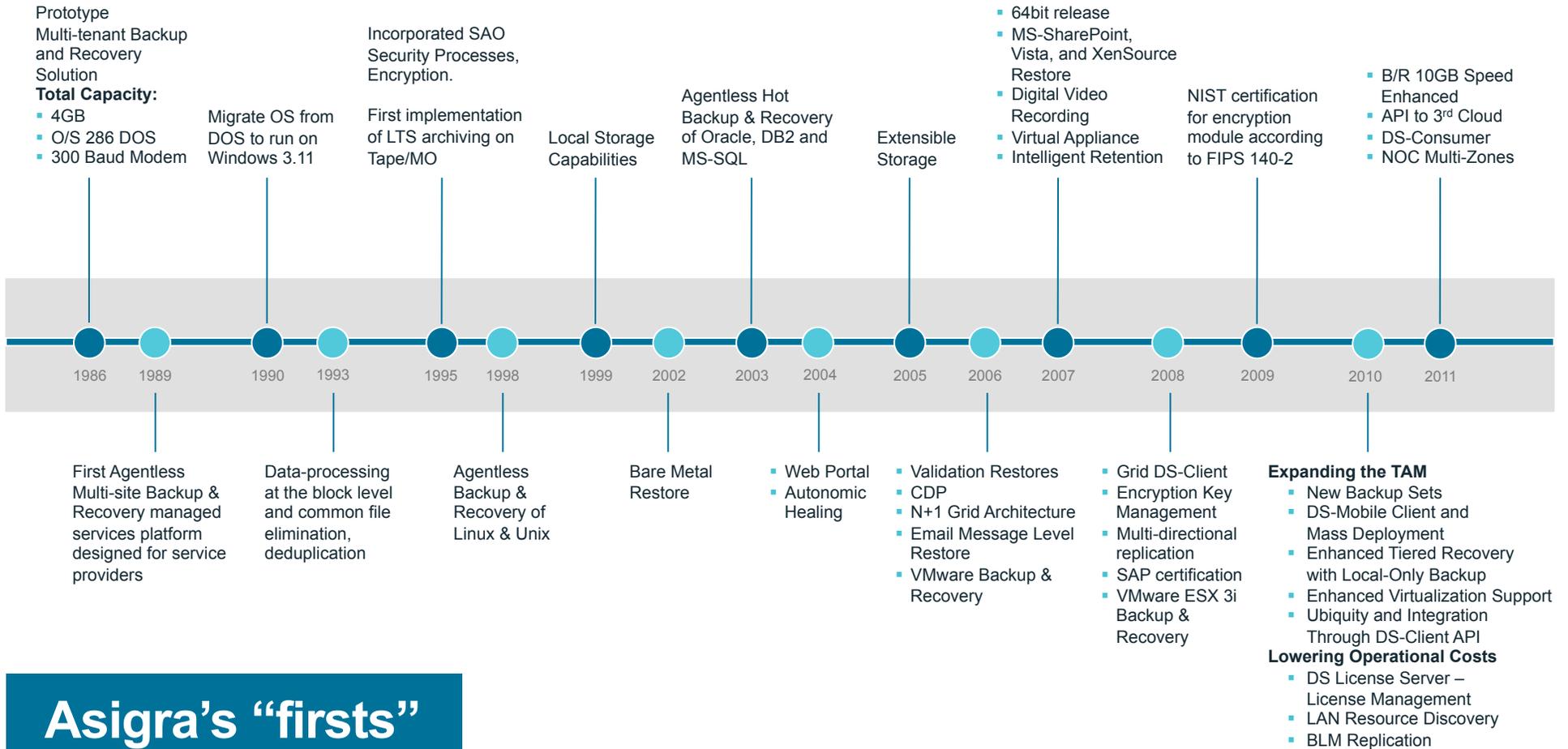


# Asigra Built from Ground Up for Cloud BUR.



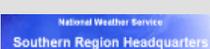
# About Asigra.

# Continuous Innovation for 25 years.



Asigra's "firsts"

# Over 250,000 End Customer Sites.

<b>Energy / Healthcare</b>					
<b>Government</b>					
<b>Insurance / Financial Services</b>					
<b>Legal</b>					
<b>Non-Profit</b>					
<b>Retail</b>					
<b>Sports</b>					
<b>Technology</b>					
<b>Transportation / Manufacturing</b>					

# Summary.

- End to end data backup and restore
- Agentless
- Capture Less, Ingest Less, Store Less
- Secure
- Tiered Storage
- Works in all virtualized environments
- Built for the cloud
- Highly customizable and scalable

# End Note.

- Powered by Asigra BUR solution superior business model
  - Makes your business easier to run, manage and grow
  - Simpler to sell significantly reducing your cost structure
- "new world order" cloud model vs. "legacy" on-premises approaches

# Questions.