Maginatics

VP of Product Management

BRUNO RAIMONDO

MagFS:
NAS for the Distributed Enterprise

1. Software Only
2. Not A Service
3. End-to-end Secure
4. Integrated with Enterprise Workflows

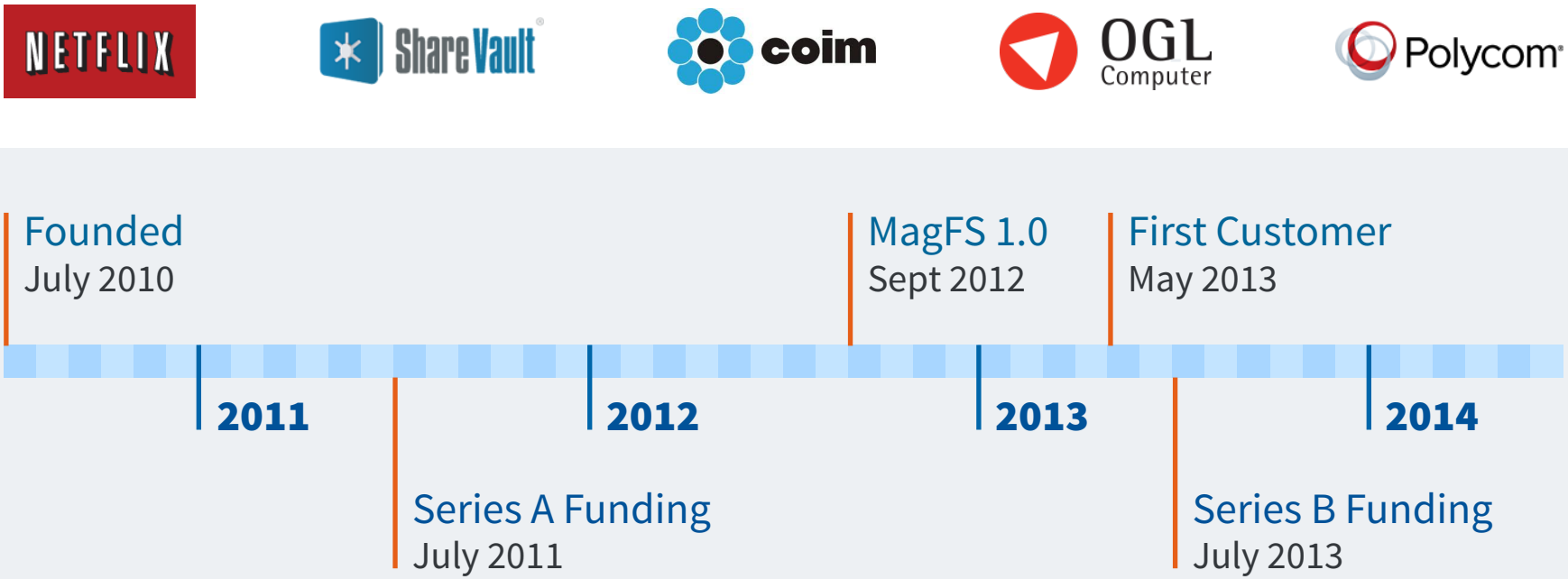
CIFS /NFS

Performance
Over
Distance

Device
and OS
Independent

Cloud
Economics,
Scale, Elasticity

Company Timeline



MagFS:
File System for the Ultra Distributed World

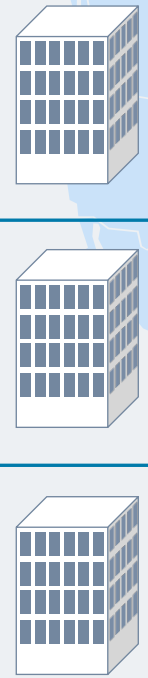
1. One office, one NAS

80% YoY Growth in Unstructured Data

75% of the Workforce Needs Mobile Access

MagFS:
File System for the Ultra Distributed World

2. Many offices, one NAS

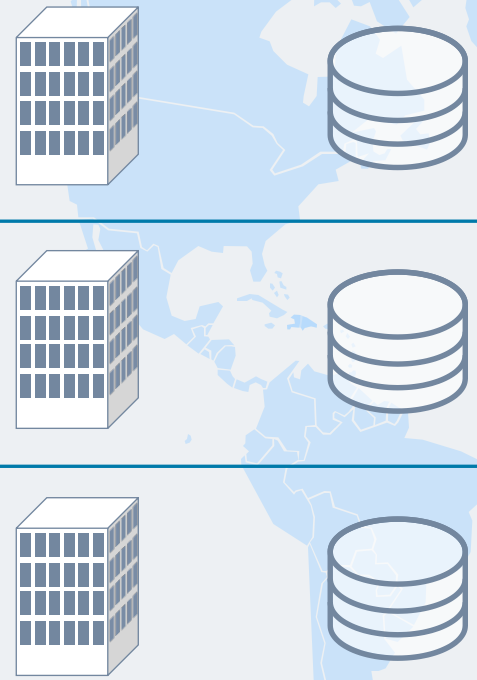


80% YoY Growth in Unstructured Data

75% of the Workforce Needs Mobile Access

MagFS:
File System for the Ultra Distributed World

3. Many offices, many NAS

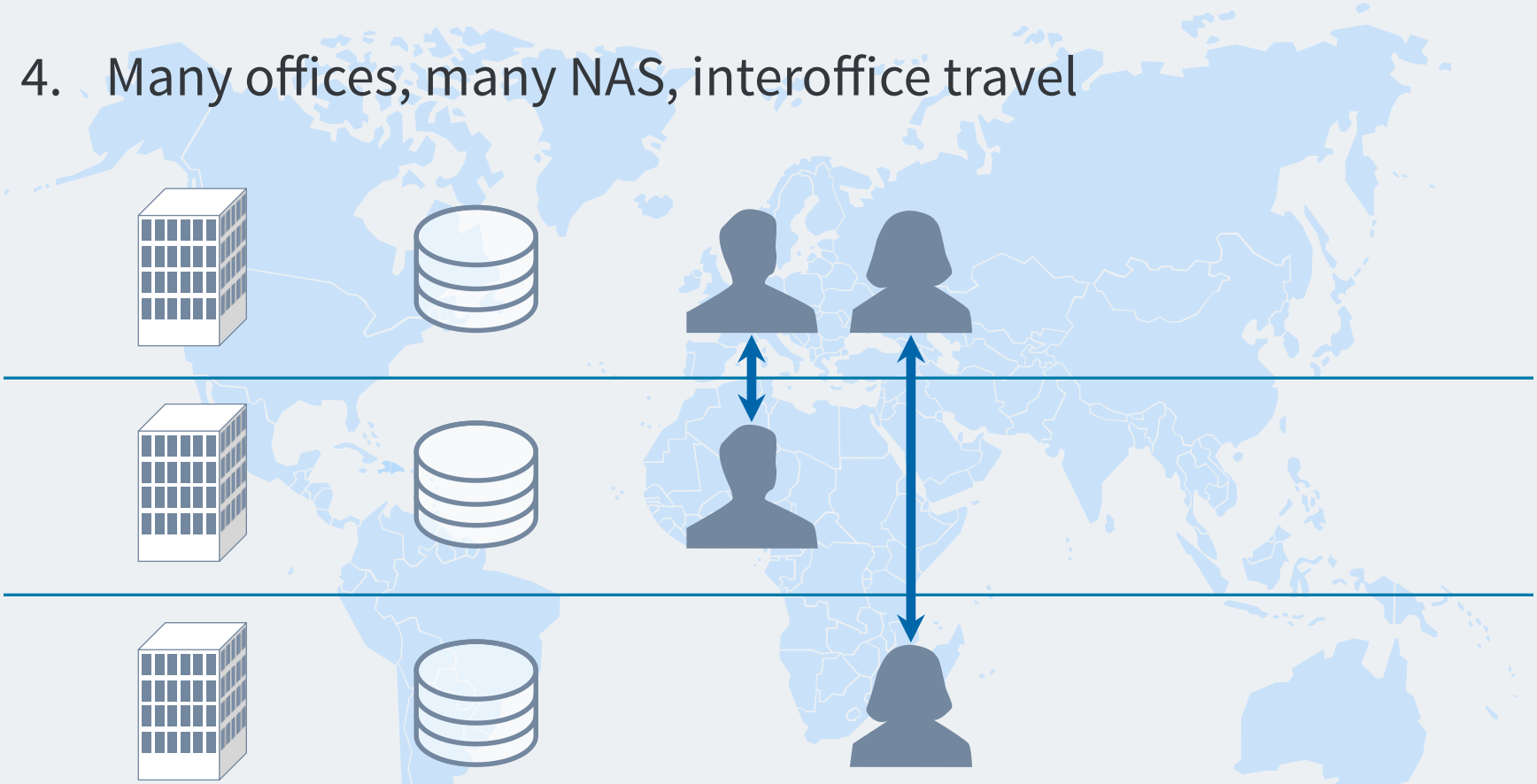


80% YoY Growth in Unstructured Data

75% of the Workforce Needs Mobile Access

MagFS:
File System for the Ultra Distributed World

4. Many offices, many NAS, interoffice travel

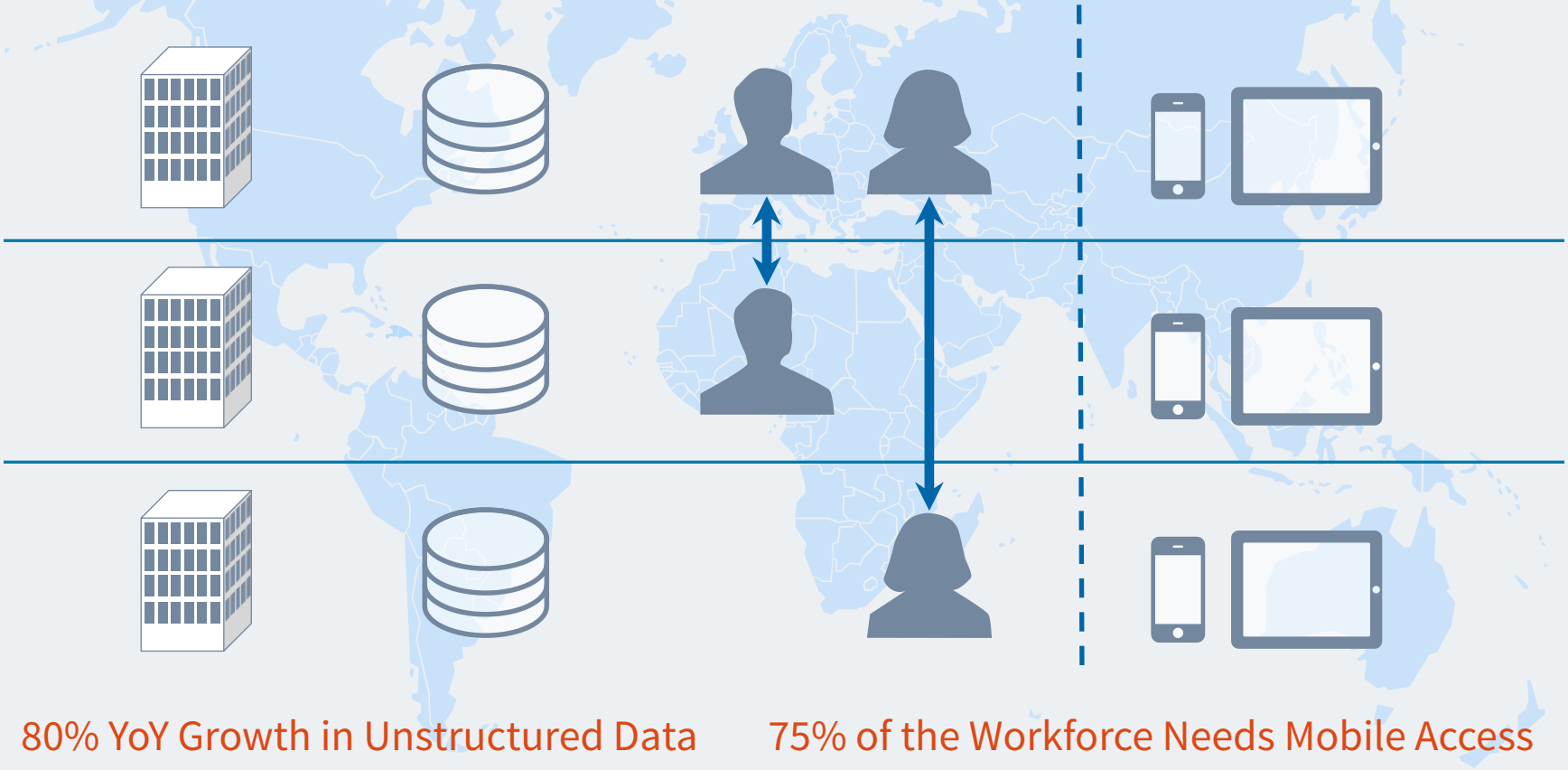


80% YoY Growth in Unstructured Data

75% of the Workforce Needs Mobile Access

MagFS:
File System for the Ultra Distributed World

5. Many offices, many NAS, interoffice travel, mobile access

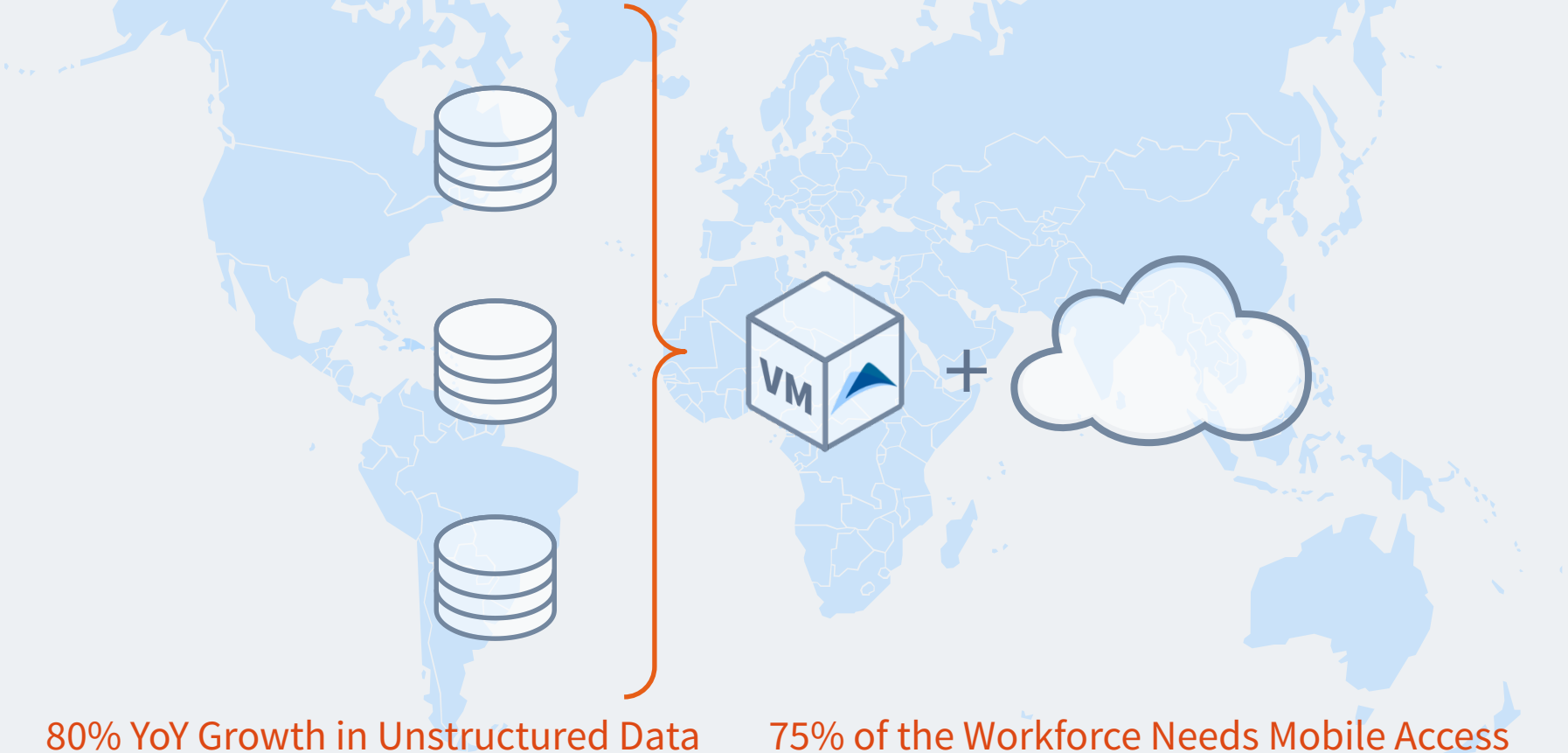


80% YoY Growth in Unstructured Data

75% of the Workforce Needs Mobile Access

MagFS:
File System for the Ultra Distributed World

MagFS consolidates your NAS securely in the cloud:

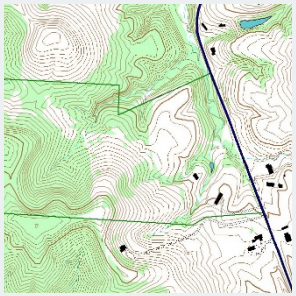


80% YoY Growth in Unstructured Data

75% of the Workforce Needs Mobile Access

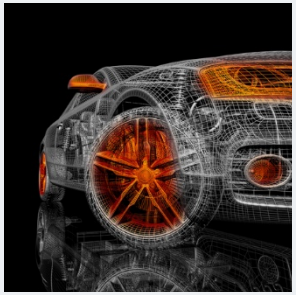
MagFS:
File System for the Ultra Distributed World

MagFS Workloads

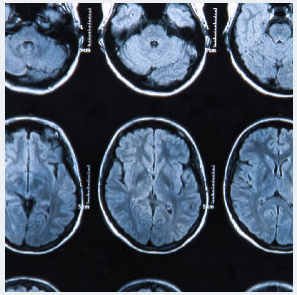


GIS

Web Servers



CAD



Life Science

Financial

Scale from 1 VM

To many VMs

...

Fit for In-Cloud Deployments

When MagFS is a good fit	When MagFS is not a good fit
In-cloud shared file system • Parallel Access • Elastic	High performance / high frequency small random IOs (Databases)
Initial Injection	
Large IOs (e.g. video render farms, GIS, Life Sciences, Financial Modeling, etc.)	
Smaller IOs (Large scale Drupal server farms)	

Fit for On Premises Deployments

When MagFS is a good fit	When MagFS is not a good fit
Highly distributed environment	Backup or single stream to the cloud
Support for Windows toolset or applications	
Secure environments: on premises metadata	
Concurrent multi-reader / multi-writer access	Databases and VM farms (and all workloads requiring random small IOs)

Summary of MagFS Use Cases

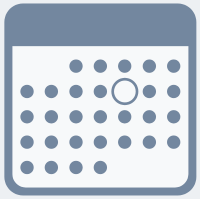
Distributed Enterprise NAS

In Cloud File System

Migration to Cloud

MagFS Pricing

License based, priced by capacity and license duration



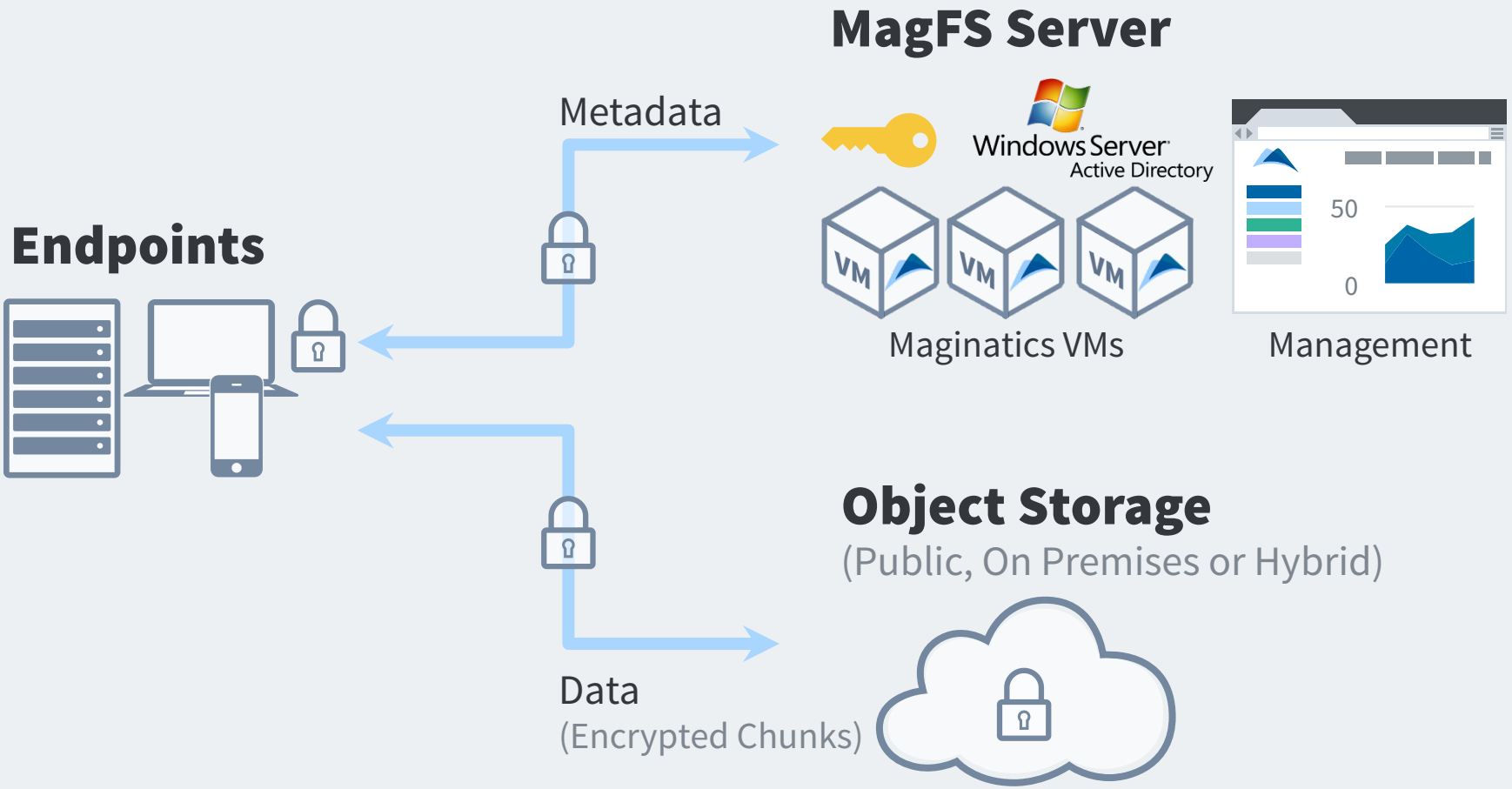
Subscription and perpetual options available

- "Up-to" capacity measured in TB increments (1TB minimum)
- 1 year, 3 year and Perpetual licenses (1 month for SP/CP partners)

Support included with subscriptions

- Perpetual license does not include support

MagFS System Components



Object Storage

openstack
amazon web services
EMC²
rackspace
Google
at&t
TELECOM ITALIA
hp Cloud
basho
Cloudian
SCALITY
Azure

MagFS Server

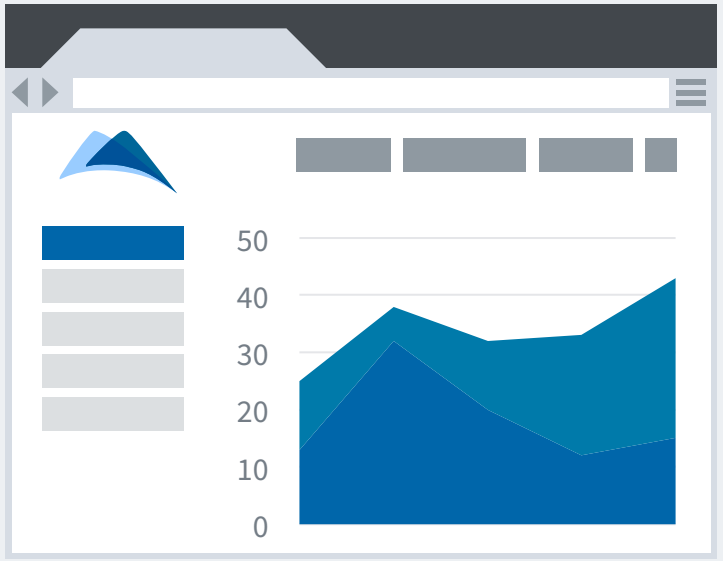
System Administration

Metadata

Keys

AD Integration

Maginatics VMs

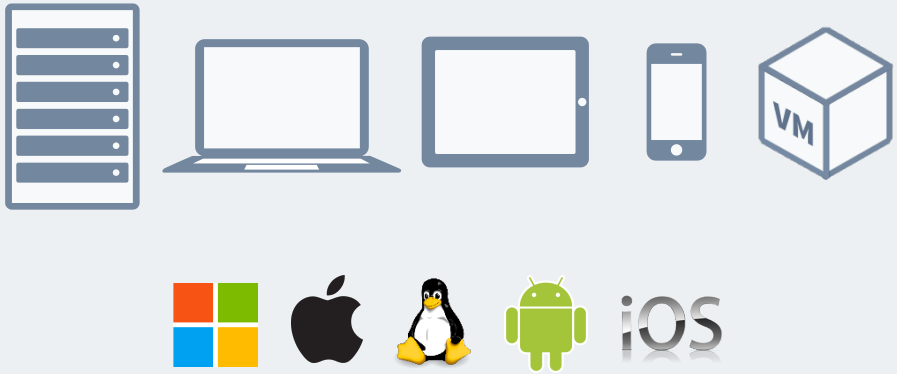


Management Console

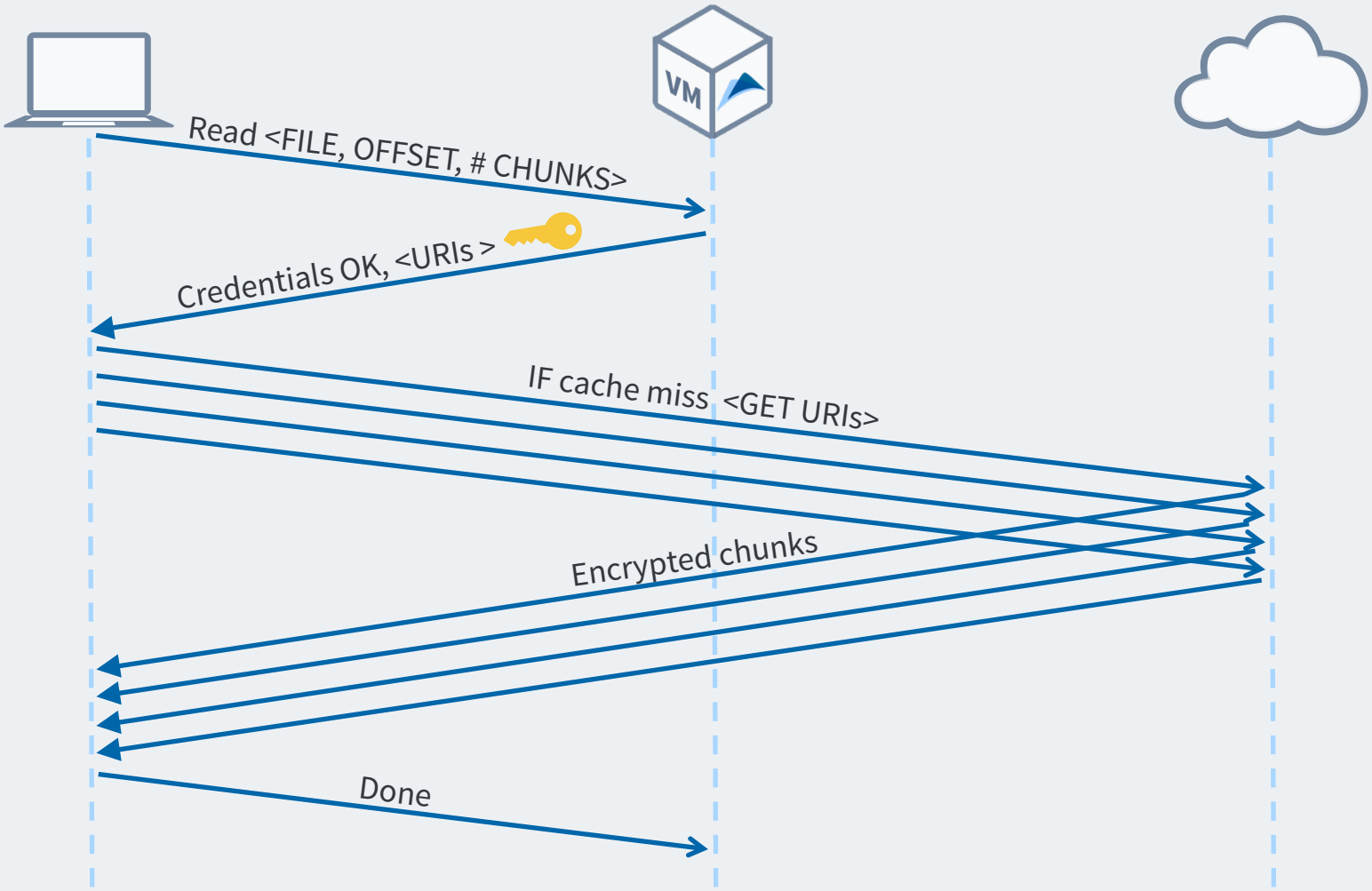
Endpoints

Protocol Translation

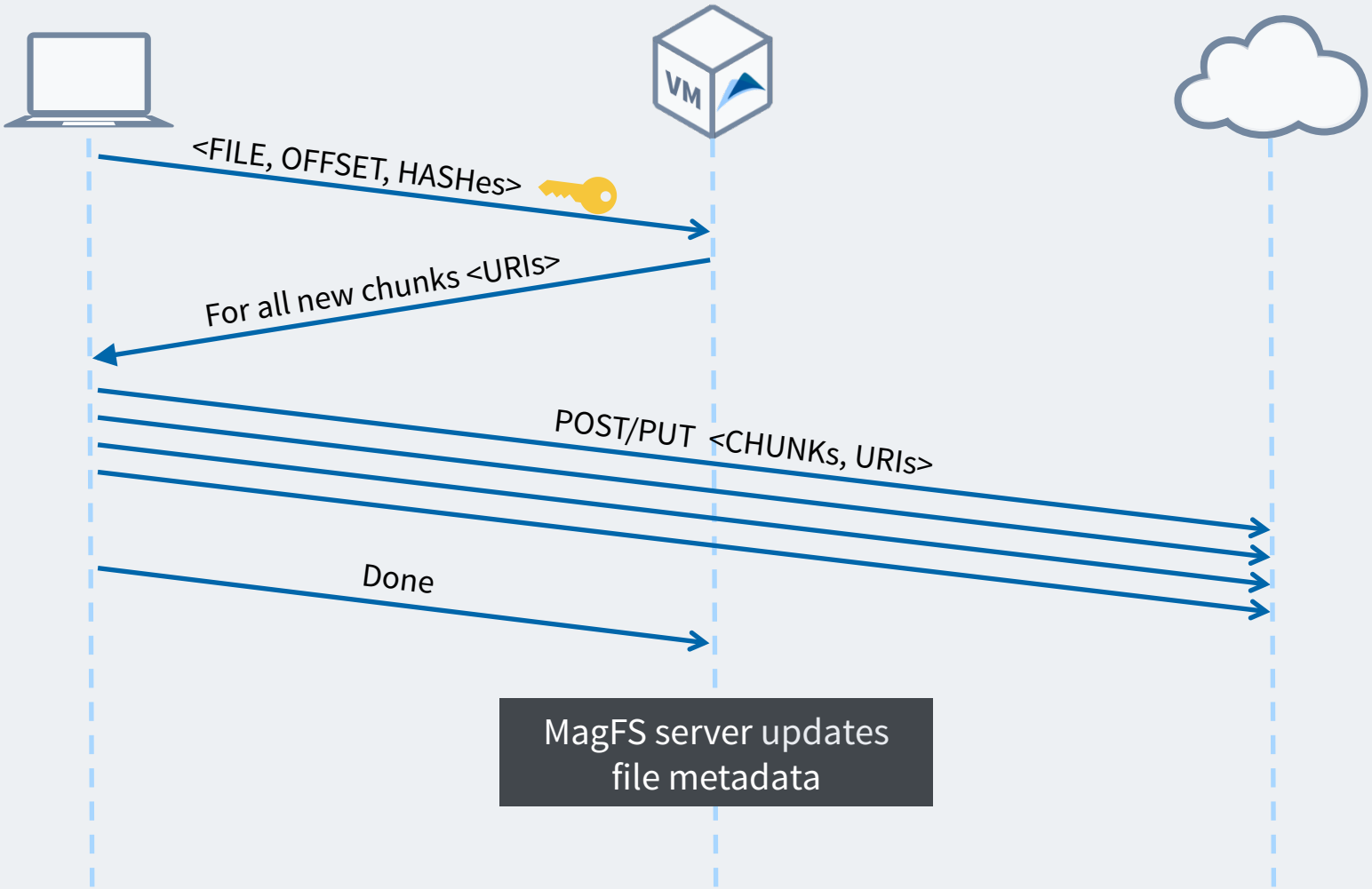
Data Operations



MagFS: Simplified Read



MagFS: Simplified Write



Thank you.

QUESTIONS

The Team

CO-FOUNDERS:

Amarjit Gill

Co-founder of SiByte (Broadcom), P.A. Semi (Apple), Agnilux (Google)

Jay Kistler

Carnegie Mellon PhD, VP R&D at Yahoo!, Akamai, DEC

TEAM:

Expertise

Distributed File Systems, Big Data Analytics, WAN Optimization, Virtualization and Mobile Computing

Background

75% Eng., 80% holding advanced degrees. Microsoft, Google, Ericsson, Aster Data, Akamai, Yahoo!, HP, VMware, Riverbed, Cisco

ADVISORS:

M. Satyanarayanan — PhD/Professor CMU

Prem Jain — SVP Engineering Insieme

Mike Kail — VP of IT Operations Netflix

Limitations of Existing Technologies

	Enterprise NAS (e.g. NetApp)	**Cloud Gateway** (e.g. Panzura, Nasuni, CTERA)	**In-Cloud File System** (e.g. Gluster, Luster)	**Sync File Sharing** (e.g. Box, Egnyte, SugarSync)
General-Purpose	✓	✓		
Application Compatible	✓	✓	✓	
Cloud Capacity & Agility		✓	✓	✓
Linear Scalability			✓	
Native WAN Opt.		✓		
Mobile Support		*		✓
Offline Access				✓
DC Security	✓		✓	

MagFS Use Cases

Enterprise Secure File Sharing

Cloud File System

ROBO NAS Consolidation

In Cloud Archival

Accelerated Data Transfer

HPC / Big Data Analytics

Inside Enterprise Firewall

Outside Enterprise Firewall

Users DB, Metadata, Encryption Keys

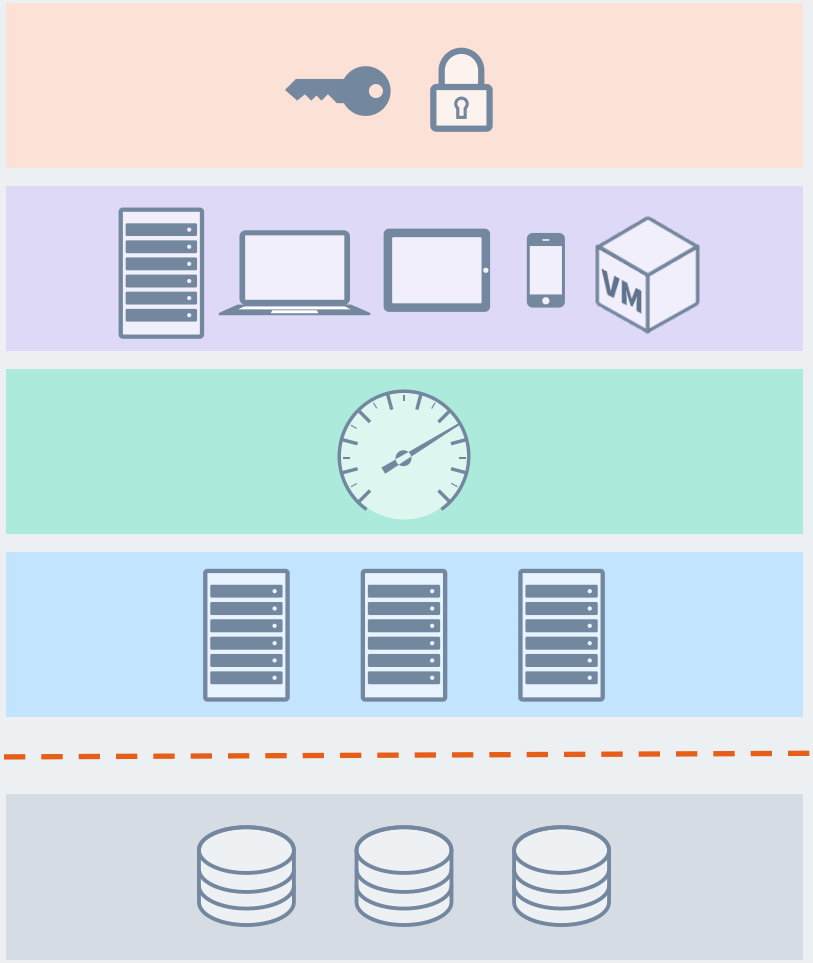
Elastic File System:
Software only, Highly Scalable, Lightweight and Secure

Endpoints

Object Storage on Commodity Servers

Public Cloud Storage

MagFS Software Platform Stack



End-to-End Encryption and Key Management

Any-Device Access to Data

WAN Optimization

Distributed/Elastic File System

Maginatics MagFS

Customer Provided

Scale-Out Object Storage

Supplemental materials

APPENDIX

This is the table template,
Copy this slide to create a new table slide.

First column heading	Second column heading
First row, column 1	First row, column 2

“This is a quote from a very satisfied customer about how MagFS is the best thing since sliced bread and other compliments.”

John Jacob Jingleheimer Schmidt

Madrigal Elektromotoren GmbH

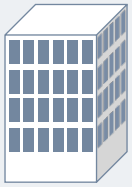
Maginatics

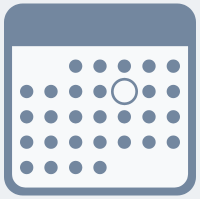
Maginatics

Maginatics

Maginatics

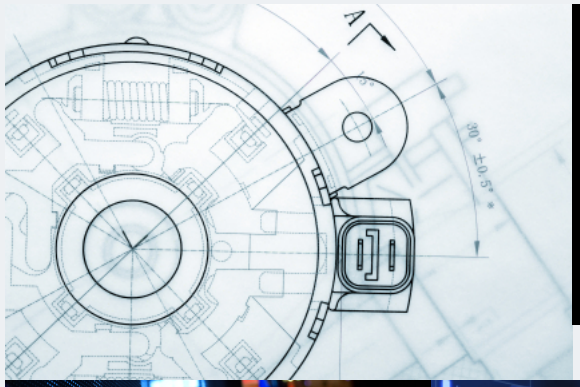
VM
50
40
30
20
10
0

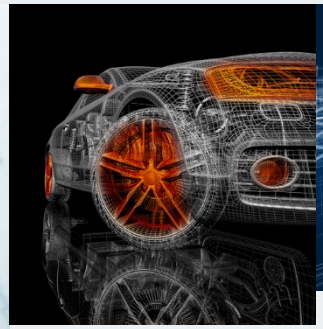


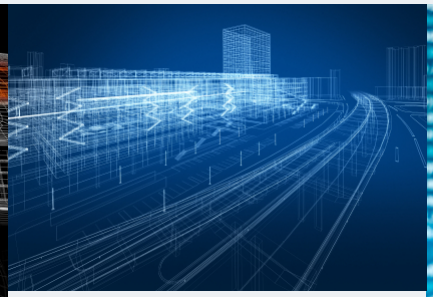
License


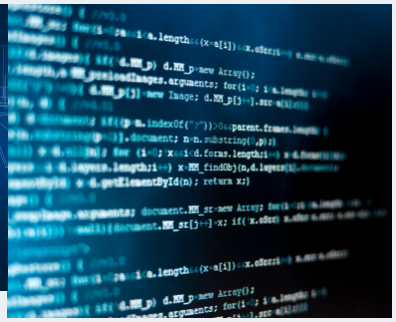
Windows Server®
Active Directory

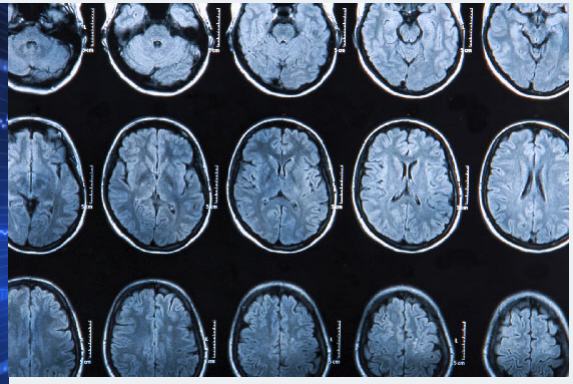
Purchased Stock Photography



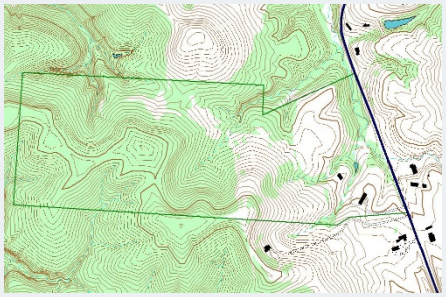








Creative Commons Imagery



Section Divider with Big Photo

Section Divider with Big Photo

Section Divider with Big Photo

Title with a white background

Title with a dark background

Usage and style

GUIDELINES

Maginatics Slide Template Getting Started

1. Install all 12 weights of Source Sans Pro. (Type specimen)
    1. Download files
        1. Install TTF for Windows
        2. Install OTF files for Mac
2. Turn off AutoFit:
    1. Windows: File → Options → Proofing → AutoCorrect Options → AutoFormat As You Type → Uncheck “AutoFit title…” and “AutoFit body…”
    2. Mac: Tools → Autocorrect… → Uncheck “Autofit body…”
3. Use the “Light_Maginatics” slide style as default.
4. Start new slides by choosing a slide layout.
5. Start new tables and diagrams by copying template slides.

Maginatics Imagery Style Guide

1. All photography usage must be cleared.
    1. Correct license must be acquired. The photograph must be purchased through a stock photography vendor or correctly licensed by the author with a Creative Commons license. (*Google image search results are not acceptable in almost all cases.*)
    2. Approved for style consistency and included in image library.
2. All icons must be from the icon library.
    1. The icon library is a collection of vector images for slides.
    2. If you need a new icon, request it. This maintains visual cohesion.
3. All diagrams must use the official colors and shapes.

Typography and color palette

Header is Source Sans Pro Light 33pt #33373b

Body is Source Sans Pro Regular 24pt #33373b

Link color is #00bcf2 and followed link color is #006699

#005299
Logo
Blue
Dark

#006699
Logo
Blue
Medium

#99ccff
Logo
Blue
Light

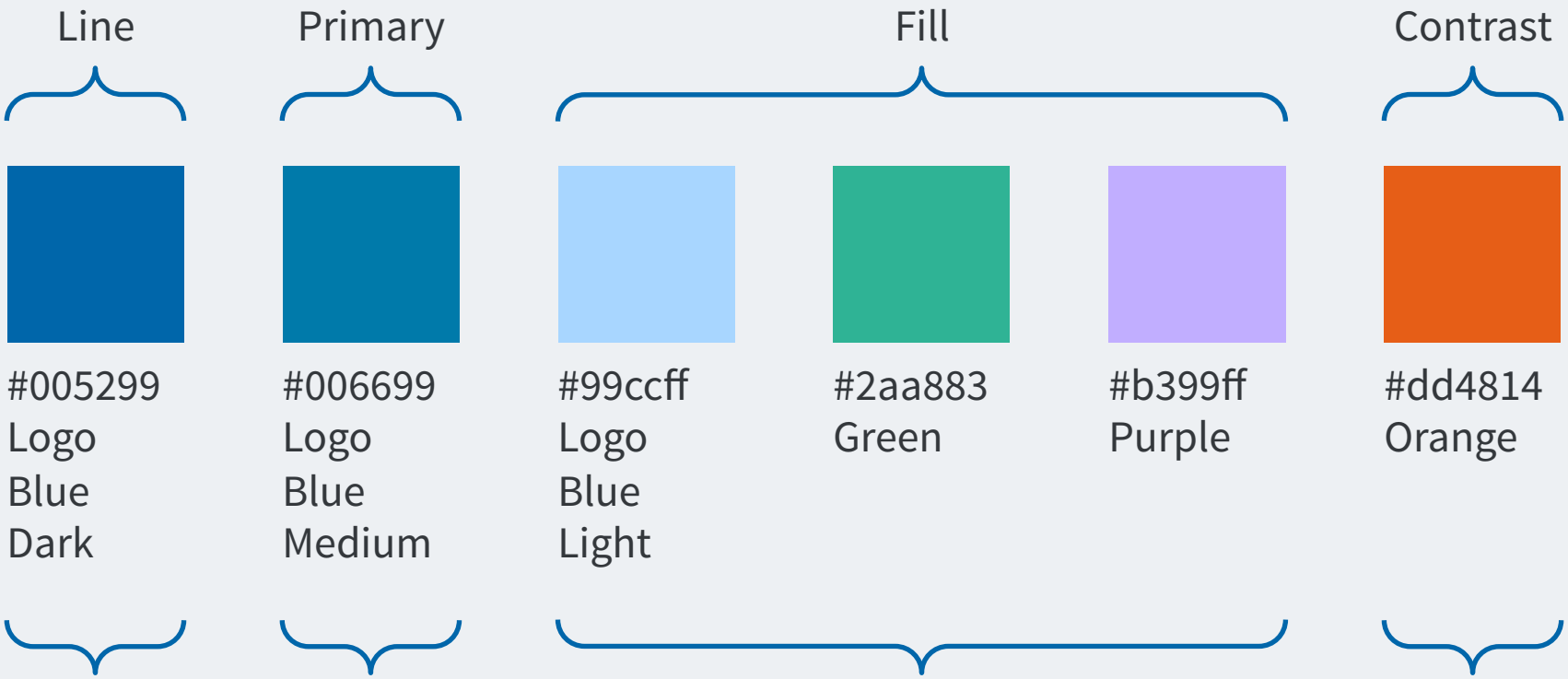
#2aa883
Green

#b399ff
Purple

#dd4814
Orange

Background color is #e9ecf0

Color palette usage



Maginatics Typography Style Guide

1. Header and body styles are defined by the theme.
2. Left-aligned text is preferred in most cases. Reasonable exceptions are labels and table body cells.
3. Use only **bold** for emphasis and only use it rarely.
    1. Never use both **bold** and *italic*. It looks ***gross***.
    2. Never use underline. It's too easy to confuse it for a hyperlink.
4. When in doubt, consult practicaltypography.com.

Use these useful typographic glyphs

Trademark: Type (tm) to get ™

Copyright: Type (c) to get ©

All rights reserved: Type (r) to get ®

Ellipsis: Type ... to get …

Money: €,£,¥

Checks: ✓,☑,❑

Math: ≈,≠,∑,∞,±, ‖

Konami: ↑ ↑ ↓ ↓ ← → ← → B A start

The dark blue lines show the top and bottom borders for the header and footer.

Space inside the light blue box is safe for content.

The space outside is not safe for content.

Please do

Do ask for new icons for the icon library.

Do ask for guidance on appropriate photography and images.

Do suggest additional layouts and templates.

Do share the slide decks you create and ask for team feedback.

Do let us know what is and isn’t working while using the theme.

Do submit feedback to improve our slides and presentations.

Do respect others’ brands when incorporating them into our slides by asking for and using official assets and guidelines.

Please don’t

Don’t change the size of the font to fit more words.

Don’t stretch the text box to fit more words.

Don’t do anything to fit more words, you need less not more.

- See how many words are on this slide? It’s *way too many*.

Don’t use animations as they fail to transmit on video conf.

Don’t add new colors in addition to the ones from the theme.

Don’t add new fonts.

Don’t edit the master slides or the theme.

Don’t change the aspect ratio of the slides.

Don’t drag images into slides unless you have the correct license and the correct format. (Don’t know? Just ask.)

Q & A

Why not use a pure white background and pure black text?

- Black text on a white background creates maximum contrast and maximum brightness, causing greater visual fatigue for the viewer, especially if the presentation is given in a darkened room.

Why Source Sans Pro?

- System fonts suck. They are generic and technically outdated.
- Source Sans Pro is a typeface family designed for display on screens. It was created by Paul D. Hunt at Adobe and released as their first open source typeface in 2012. The details are ideal for UI.

How can I learn to create better slides and presentations?

- Read Butterick's Practical Typography and his presentation tips.
- Read this Lifehacker post for rules, suggestions and links.

Attribution

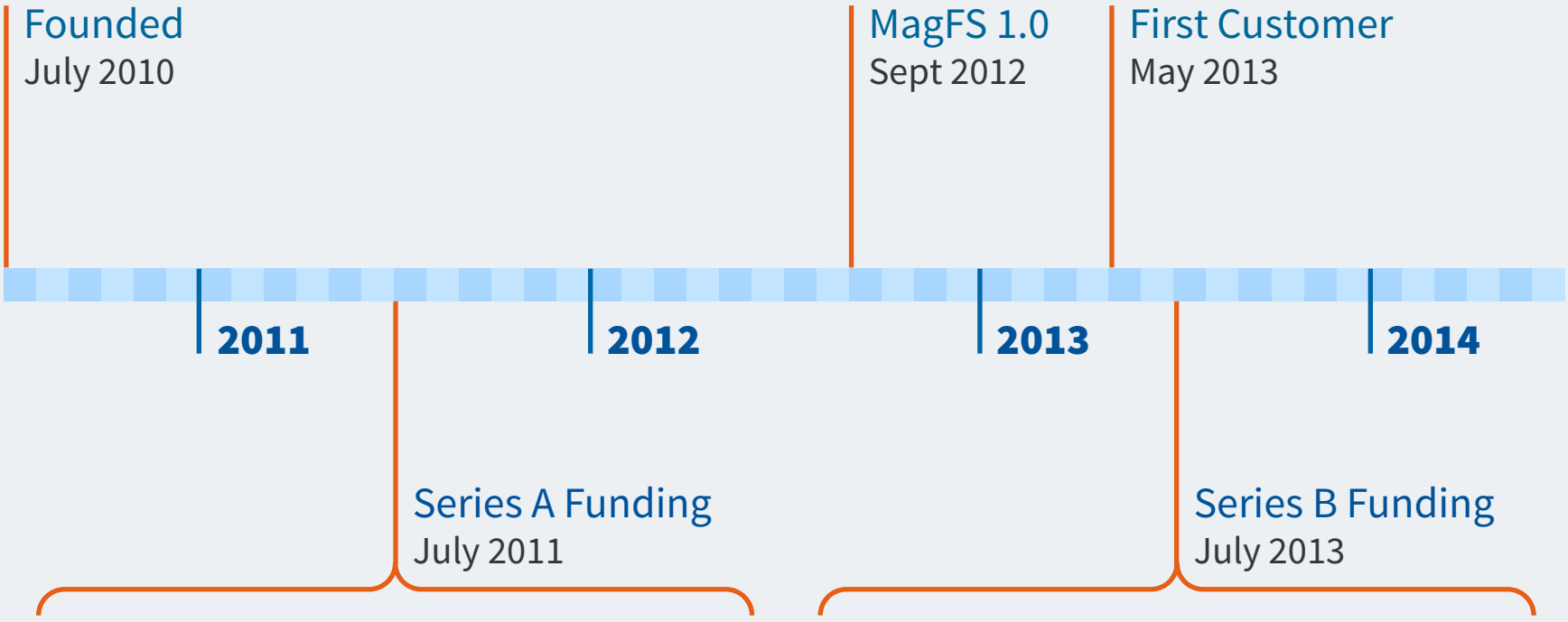
1. World map: http://en.wikipedia.org/wiki/File:World_map_-_low_resolution.svg
2. GIS: http://en.wikipedia.org/wiki/File:Gislayers.jpg

Alternates

Reconsider these during revisions

MagFS:
File System for the Ultra Distributed World

Company Timeline



ATLANTIC BRIDGE

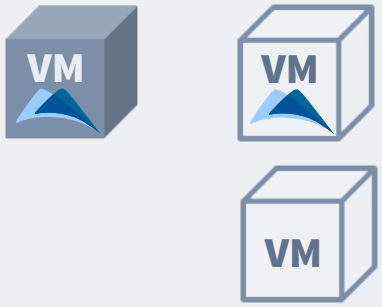
EMC²

vmware

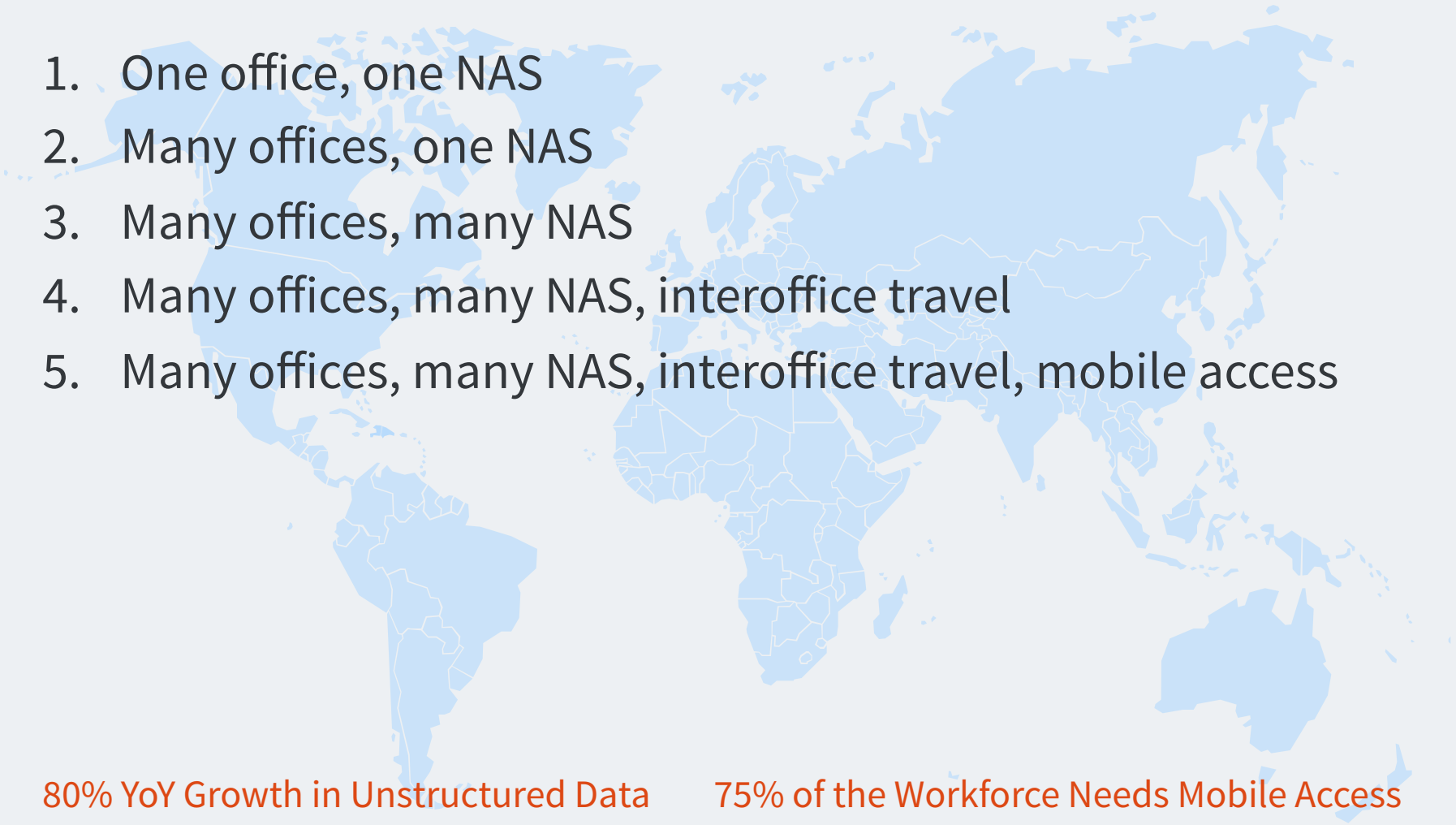
COMCAST VENTURES

intel Capital

华山资本
WESTSUMMIT CAPITAL


VM
VM
VM

MagFS:
File System for the Ultra Distributed World



1. One office, one NAS
2. Many offices, one NAS
3. Many offices, many NAS
4. Many offices, many NAS, interoffice travel
5. Many offices, many NAS, interoffice travel, mobile access

80% YoY Growth in Unstructured Data

75% of the Workforce Needs Mobile Access

MagFS:
NAS for the Distributed Enterprise

CIFS /NFS

Performance
Over
Distance

Device
and OS
Independent

Cloud
Economics,
Scale, Elasticity

Software Only

Not A Service

End-to-end Secure

Integrated with Enterprise Workflows