Achieve High Resiliency

With Automation through RESTful APIs

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My Network Places

My Shared Folder

AceClub Casino Online

Grokster

Vegas Red Casino

Recycle Bin

Downloads

AceNotes 2000d

My Grokster Files

Nici

Internet Explorer

Pop-Up Stopper Fr...

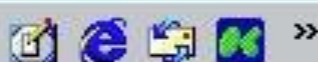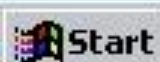Harmony Hollow on t...

Casino

Kazaa Media Desktop

Pop-Up Control Center

BonziBUDDY

Golden Spur

Start

7:39 PM

Jaap Brasser

Tweets   @ jaap_brasser
Blogs   @ jaapbrasser.com
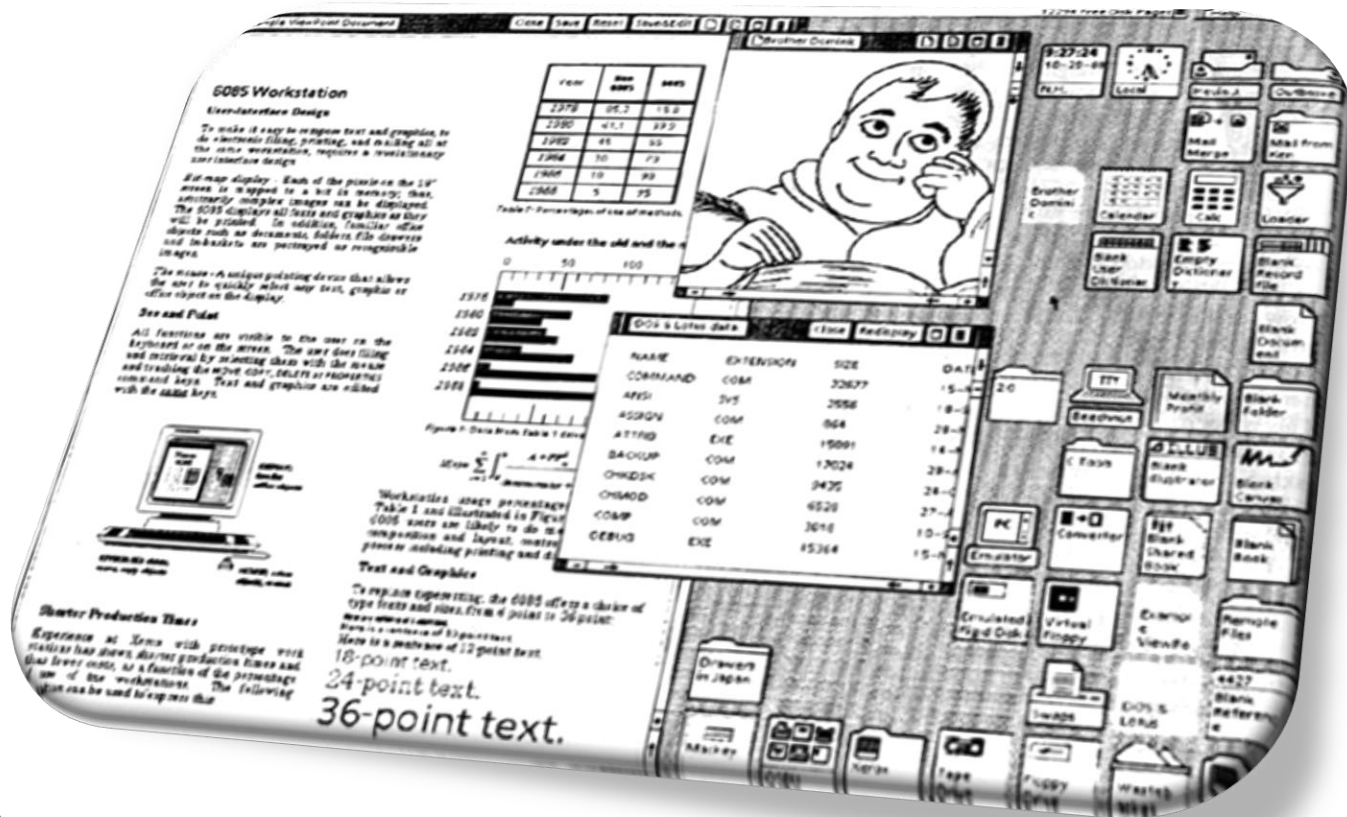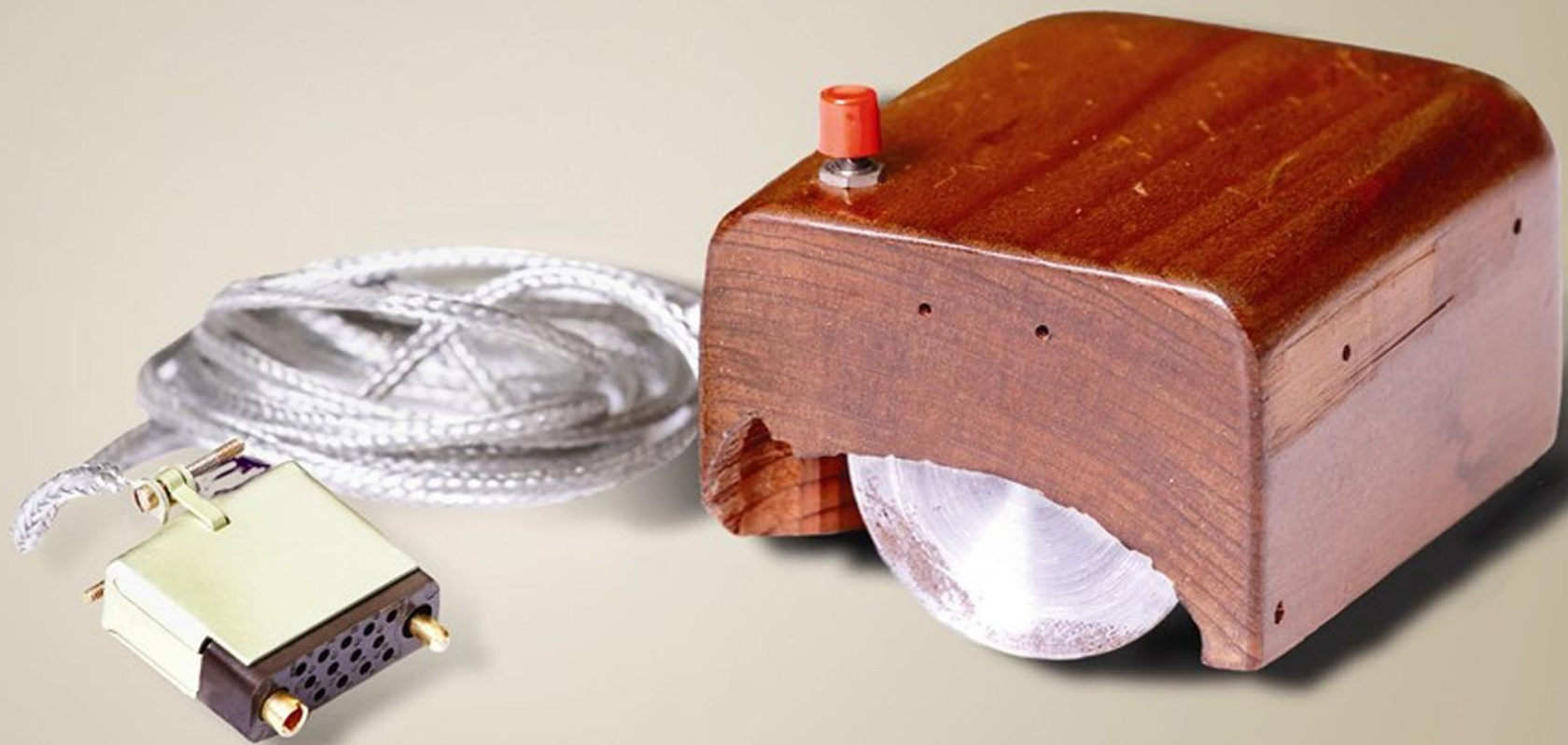**Works**   Tech Marketeer @ Rubrik.com
Does   Blogger, Speaker, Tech Enthusiast
Likes   Cloud Automation, Scripting & Security

MVP **Microsoft**®
Most Valuable
Professional
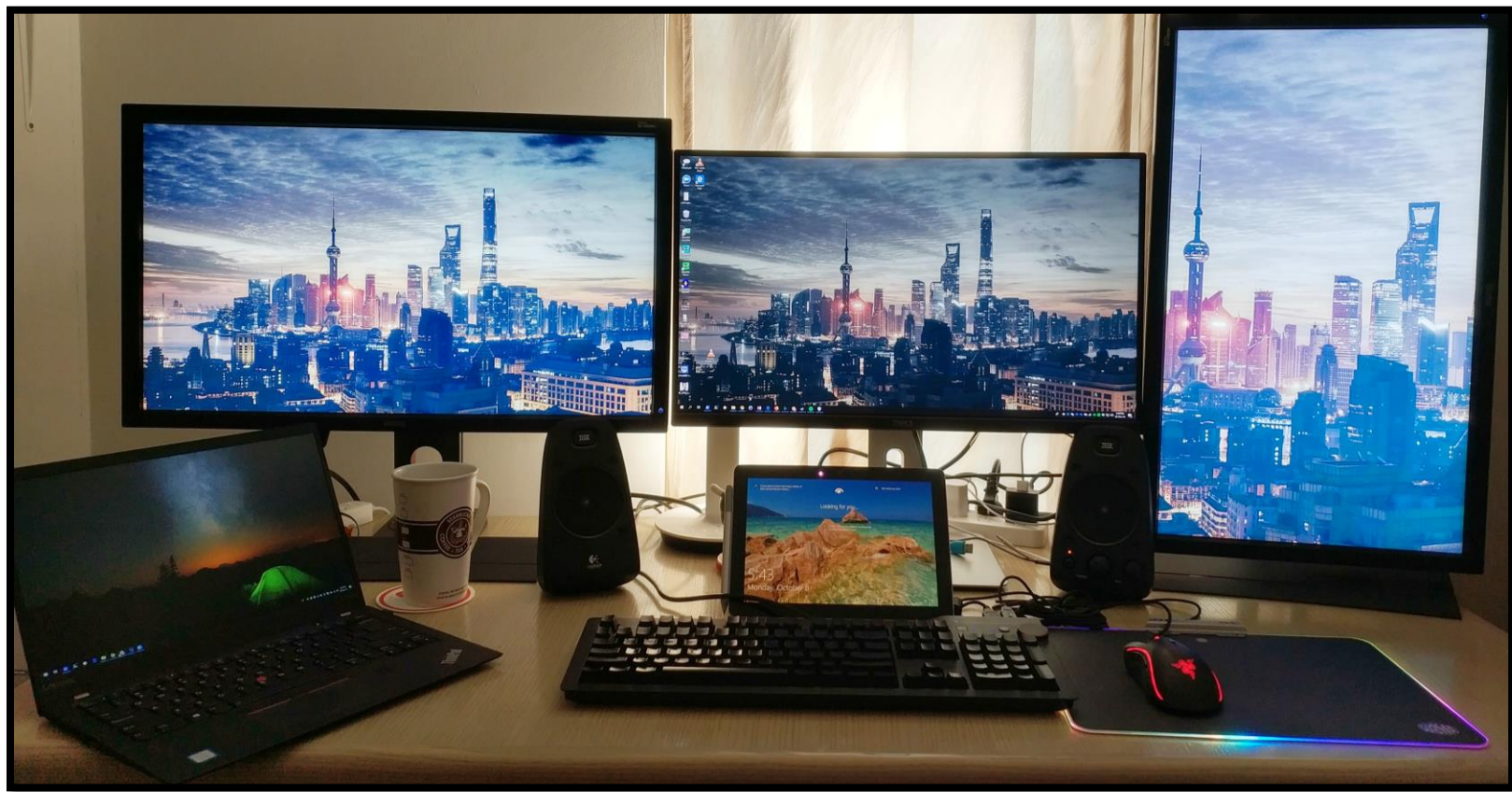
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Integrate ALL the things!!

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Your Data Center Today

Production Servers

Backup Proxy

Backup Server

Search Server

Disk-Based Backup

Tape Archive

Offsite Tape Vault

SAN
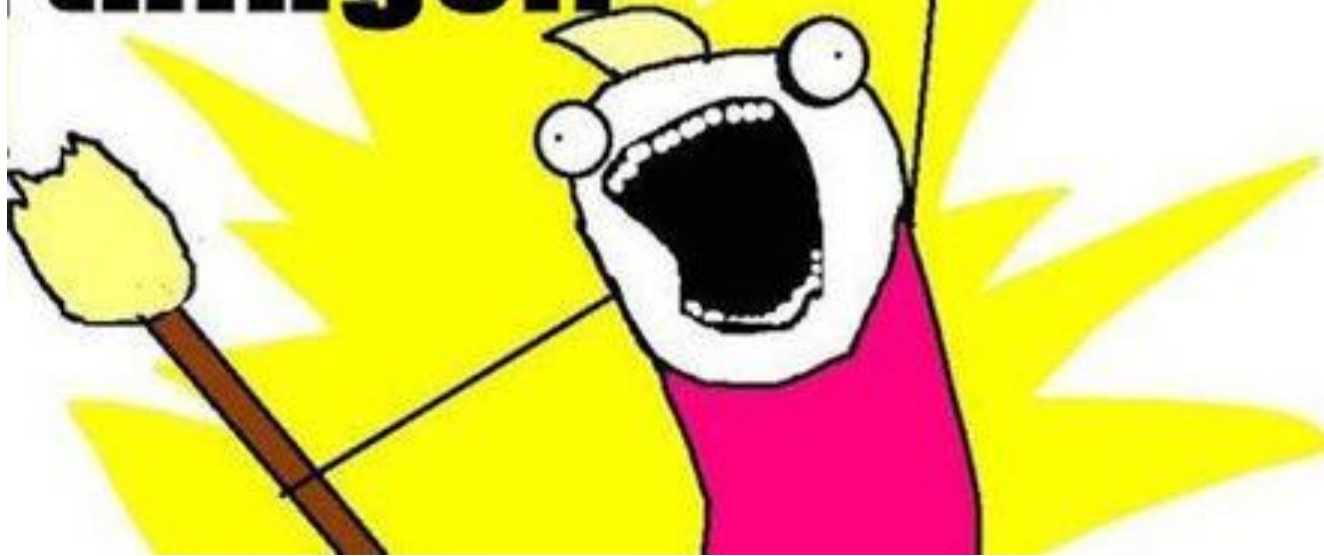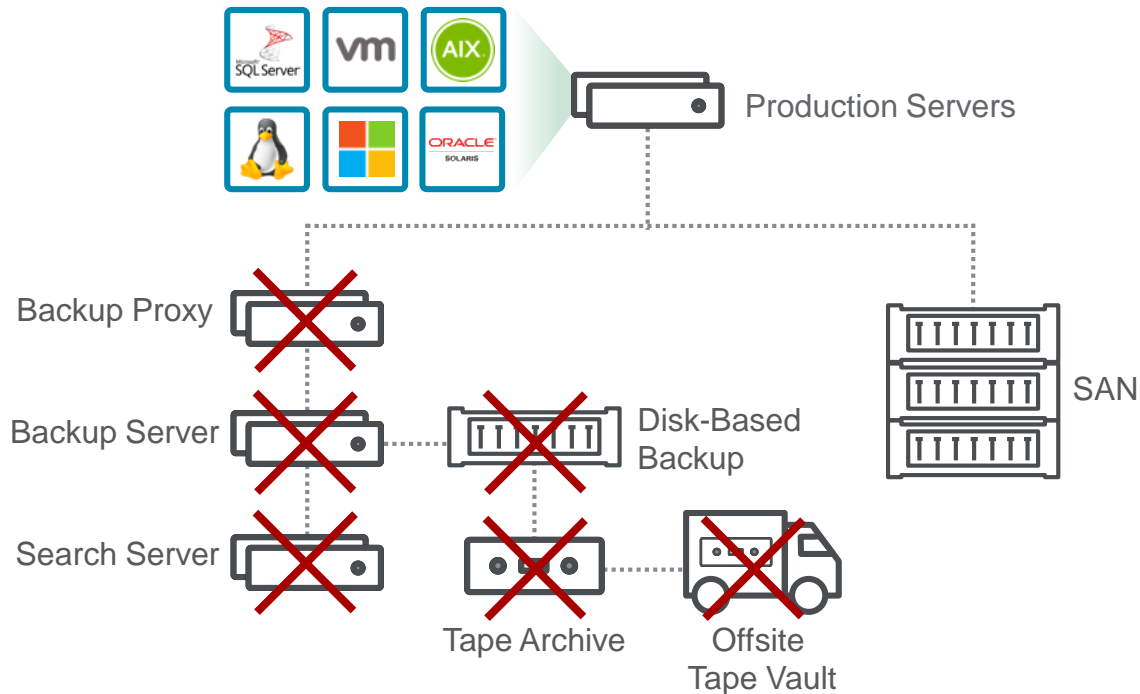
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Rubrik Simplifies Your Data Center

Production Servers

Scale Out

Rubrik

SAN

Scale Out

Google Cloud Platform

aws Microsoft Azure

Private

Replication + Long-Term
Retention + Search
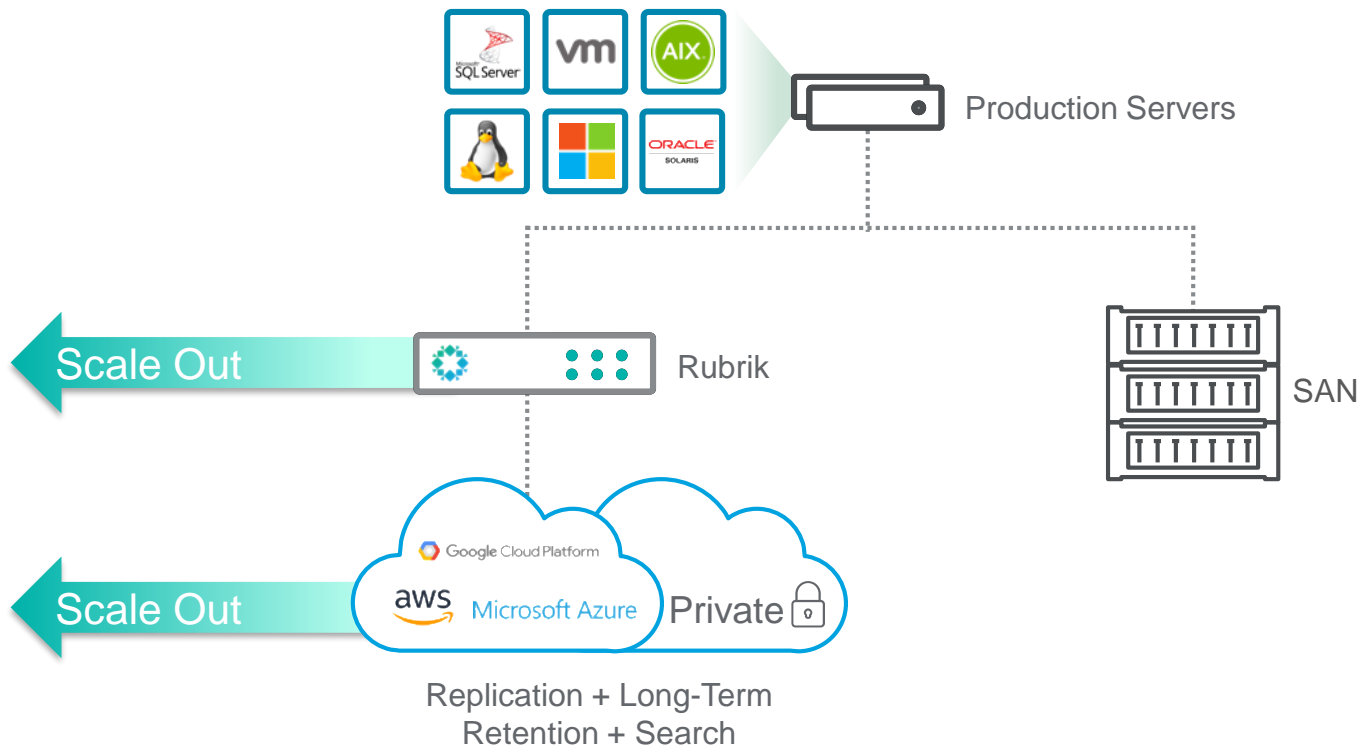
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Rubrik API set

Powerful

Query, configure, and control nearly all operations across our suite of use cases: backup and recovery, search, analytics, DR, and more.

Native

Gain access to any of the operations that are available through the Rubrik web UI; we use the same RESTful API that you do.

Extensible

Perform bulk-type operations that might otherwise be difficult or impossible to perform by hand.

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API – Integrate with anything

GUI (HTML5)

PowerShell*

vRO / vRA*

REST API

ServiceNow

Any console, or shell

Python SDK

Ansible, Puppet, Chef, Salt

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12
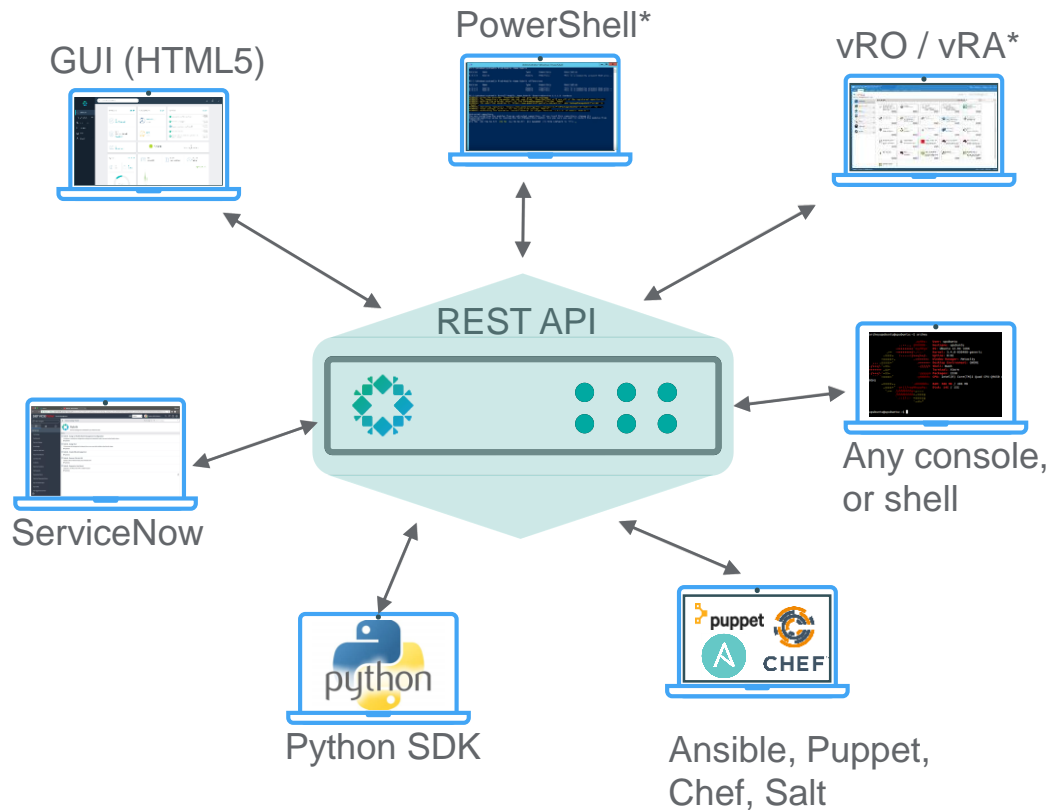
Vmware API and SDK

VMware API and SDK Documentation

VMware offers release notes, developer guides, API references, and other documentation for current and past versions of API and SDK sets.

You can explore APIs and download SDKs at VMware {code}.

- Infrastructure Management

- Appliances, Backup, and Virtual Disk

- Guest Virtual Machines

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Dashboard

SLA Domains

Virtual Machines

vSphere VMs

vCD vApps

Hyper-V VMs

AHV VMs

Servers & Apps

Cloud Workloads

vSphere VMs ⌄

See All ▸

102
Protected

0
Unprotected
Protect Now ▸

3
Live Mounts

SLA Domains

See All ▸

1
Day
1d-30d-NoArchive
113 Protected Objects

4
Hours
4hr-30d-Azure
60 Protected Objects

12
Hours
12hr-30d-Azure
57 Protected Objects

✓ System

3
Incoming Snapshots

Activity

See A

✓ Finished refreshing metadata for host 'em2-teremuno-w1'   11/06/2
11:45

✓ Replicated logs for Microsoft SQL Server Database   11/06/2
'AdventureWorks2014' on 'em2-davifart-w1.r...   11:44

✓ Replicated logs for Microsoft SQL Server Database 'model'   11/06/2
on 'em1-sql12-1\MSSQLSERVER' from ...   11:40

✓ Replicated vSphere VM 'em1-sql16-1' from 'emea1-rbk01' to   11/06/2
'emea2-rbk01'   11:40

✓ Replicated logs for Microsoft SQL Server Database 'model'   11/06/2
on 'em2-davifart-w1.rubrikdemo.com...   11:40

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Search by Name

jaco ✕

Filter Fileset ▼   Filter SLA ▼

☐	Name ▼	Volumes and Filesets	SLA Domain	Status	OS Type
☐	em2-**jaco**bras-w1.rubri…	--	--	✓ Connected	Windows Server 2016 D…

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Search by Name or Location

em2-jacobras-l1   Local

Take On Demand Snapshot

Manage Protection

Dashboard

SLA Domains

Virtual Machines

vSphere VMs

vCD vApps

Hyper-V VMs

AHV VMs

Servers & Apps

Cloud Workloads

Unmanaged Objects

Live Mounts

Cloud Mounts

Overview

emea2-vcsa.rubri...
vCenter

Disabled
Cloud Conversion
Configure

4hr-30d-AWS
SLA Domain

0
Live Mounts

9/15/18 10:58 PM
Oldest Snapshot

11/6/18 10:52 AM
Latest Snapshot

49
Total Snapshots

0
Missed Snapshots

Snapshots

Search by File Name

Today

Year   Month   Day

← November 2018 →

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

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Rubrik REST API

/cluster : Cluster configuration and health	Show/Hide	List Operations	Expand Operations
/fileset : File system filesets	Show/Hide	List Operations	Expand Operations
/fileset_template : File system fileset templates	Show/Hide	List Operations	Expand Operations
/host : Linux hosts and Windows hosts	Show/Hide	List Operations	Expand Operations
/ldap_service : LDAP services	Show/Hide	List Operations	Expand Operations
/mssql : SQL Server instances and databases	Show/Hide	List Operations	Expand Operations
/session : User session management	Show/Hide	List Operations	Expand Operations
/sla_domain : SLA Domains	Show/Hide	List Operations	Expand Operations
/vmware/host : VMware hypervisor hosts	Show/Hide	List Operations	Expand Operations
/vmware/vcenter : VMware vCenter	Show/Hide	List Operations	Expand Operations
/vmware/vm : **VMware virtual machines**	Show/Hide	List Operations	Expand Operations

GET	/vmware/vm	Get list of VMs

Implementation Notes
Get summary of all the VMs

Response Class (Status 200)   ❗
Virtual machine summary.

Model | **Example Value**

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File   Edit   View   Help

New   Import   Runner   My Workspace ▼   Invite   No Environment

Filter

History   Collections

[CONFLICT] GET Demo 1   ×   GET Demo 2   +   ...

▶ Demo 1

GET ▼   https://emea2-rbk01.rubrikdemo.com/api/v1/vmware/vm?name=em2-jacobras-w1   Send ▼

Params ●   Authorization   Headers   Body   Pre-request Script   Tests

	KEY	VALUE	DESCRIPTION
☑	name	em2-jacobras-w1	
	Key	Value	Description

Rubrik Demo
3 requests

VMWorldDemo
2 requests

GET   Demo 1
GET   Demo 2

Body   Cookies   Headers (11)   Test Results   Status: 401 Unauthorized   Time: 187 ms   Size: 612 B   Save

Pretty   Raw   Preview   Auto ▼

1   Request needs authentication!

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File   Edit   View   Help

New   Import   Runner

My Workspace ▾   Invite

No Environment

[CONFLICT] GET Demo 1   GET Demo 2   +   ...

▾ Demo 2

Get VM Info

GET ▾   https://emea2-rbk01.rubrikdemo.com/api/v1/vmware/vm?name=em2-jacobras-w1   Send

Params ●   Authorization ●   Headers (1)   Body   Pre-request Script   Tests

	KEY	VALUE	DESCRIPTION
☑	name	em2-jacobras-w1	
	Key	Value	Description

Filter

History   Collections

▸ 🗀 Rubrik Demo
    3 requests

▾ 🗀 VMWorldDemo
    2 requests

GET   Demo 1
GET   Demo 2

Body   Cookies   Headers (12)   Test Results

Status: 200 OK   Time: 601 ms   Size: 1.31 KB   Save

Pretty   Raw   Preview   JSON ▾

```
 1   {
 2       "hasMore": false,
 3       "data": [
 4           {
 5               "hostName": "emea2-esx02.rubrikdemo.com",
 6               "effectiveSlaDomainId": "5226f655-e1c1-4ba7-94fb-95e2bdbb1dd3",
 7               "primaryClusterId": "a294485c-99ba-4738-8693-34c763e78f66",
 8               "infraPath": [
 9                   {
10                       "id": "vCenter:::337201d6-a856-4d01-8097-9facc55bf45b",
11                       "managedId": "vCenter:::337201d6-a856-4d01-8097-9facc55bf45b",
12                       "name": "emea2-vcsa.rubrikdemo.com"
```

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POWERSHELL

```
PS C:\Windows\system32> Connect-Rubrik -Server emea2-rbk01.rubrikdemo.com -Credential (Import-CliXml C:\temp\jaap.cred)

Name                          Value
----                          -----
id                            972331ae-2c2f-49c3-9a54-8db624723689
time                          06-Nov-18 10:58:03 AM
userId                        93656d34-1c6b-4aeb-87fe-e775b453088b
version                       4.2.0-p4-1220
header                        {Authorization}
api                           1
server                        emea2-rbk01.rubrikdemo.com
```

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```
PS C:\Windows\system32> get-rubrikvm em2-jacobras-w1


hostName                        : emea2-esx02.rubrikdemo.com
effectiveSlaDomainId            : 5226f655-e1c1-4ba7-94fb-95e2bdbb1dd3
primaryClusterId                : a294485c-99ba-4738-8693-34c763e78f66
infraPath                       : {@{id=vCenter:::337201d6-a856-4d01-8097-9facc55bf45b;
                                  managedId=vCenter:::337201d6-a856-4d01-8097-9facc55bf45b;
                                  name=emea2-vcsa.rubrikdemo.com},
                                  @{id=DataCenter:::337201d6-a856-4d01-8097-9facc55bf45b-datacenter-21;
                                  managedId=DataCenter:::337201d6-a856-4d01-8097-9facc55bf45b-datacenter-21;
                                  name=EMEA-2 Datacenter},
                                  @{id=ComputeCluster:::337201d6-a856-4d01-8097-9facc55bf45b-domain-c26;
                                  managedId=ComputeCluster:::337201d6-a856-4d01-8097-9facc55bf45b-domain-c26;
                                  name=EMEA-2 Cluster},
                                  @{id=VmwareHost:::337201d6-a856-4d01-8097-9facc55bf45b-host-30;
                                  managedId=VmwareHost:::337201d6-a856-4d01-8097-9facc55bf45b-host-30;
                                  name=emea2-esx02.rubrikdemo.com}}
effectiveSlaSourceObjectId      : Folder:::337201d6-a856-4d01-8097-9facc55bf45b-group-v161
effectiveSlaSourceObjectName    : Windows
configuredSlaDomainId           : INHERIT
moid                            : vm-11849
folderPath                      : {@{id=vCenter:::337201d6-a856-4d01-8097-9facc55bf45b;
                                  managedId=vCenter:::337201d6-a856-4d01-8097-9facc55bf45b;
                                  name=emea2-vcsa.rubrikdemo.com},
                                  @{id=DataCenter:::337201d6-a856-4d01-8097-9facc55bf45b-datacenter-21;
                                  managedId=DataCenter:::337201d6-a856-4d01-8097-9facc55bf45b-datacenter-21;
                                  name=EMEA-2 Datacenter},
                                  @{id=Folder:::337201d6-a856-4d01-8097-9facc55bf45b-group-v22;
                                  managedId=Folder:::337201d6-a856-4d01-8097-9facc55bf45b-group-v22; name=vm},
                                  @{id=Folder:::337201d6-a856-4d01-8097-9facc55bf45b-group-v52;
                                  managedId=Folder:::337201d6-a856-4d01-8097-9facc55bf45b-group-v52; name=Personal
                                  VMs}...}
effectiveSlaDomainName          : 4hr-30d-Azure
powerStatus                     : poweredOn
```

```
PS C:\Windows\system32> get-rubrikvm em2-jacobras-w1 | Get-RubrikSnapshot


date                  : 06-Nov-18 9:33:54 AM
indexState            : 1
slaName               : 4hr-30d-Azure
vmName                : em2-jacobras-w1
slaId                 : 5226f655-e1c1-4ba7-94fb-95e2bdbb1dd3
replicationLocationIds : {297cd5fc-253c-40c5-ad1c-60b090fb2a19}
archivalLocationIds   : {}
isOnDemandSnapshot    : False
cloudState            : 0
id                    : 59059f82-1de7-4493-a4c2-ccb3b24fbc4b
consistencyLevel      : VSS_CONSISTENT

date                  : 06-Nov-18 5:33:45 AM
indexState            : 1
slaName               : 4hr-30d-Azure
vmName                : em2-jacobras-w1
slaId                 : 5226f655-e1c1-4ba7-94fb-95e2bdbb1dd3
replicationLocationIds : {297cd5fc-253c-40c5-ad1c-60b090fb2a19}
archivalLocationIds   : {}
isOnDemandSnapshot    : False
cloudState            : 0
id                    : 3aebb9cd-19cb-4995-a8f9-2ad582ef7d28
consistencyLevel      : VSS_CONSISTENT
```

rUid

```
PS C:\Windows\system32> get-rubrikvm em2-jacobras-w1 | Get-RubrikSnapshot | Select Date

date
----
06-Nov-18 9:33:54 AM
06-Nov-18 5:33:45 AM
06-Nov-18 1:33:40 AM
05-Nov-18 9:33:35 PM
05-Nov-18 5:33:24 PM
05-Nov-18 1:33:18 PM
05-Nov-18 9:33:07 AM
05-Nov-18 5:33:05 AM
05-Nov-18 1:33:02 AM
04-Nov-18 9:32:56 PM
04-Nov-18 5:32:56 PM
04-Nov-18 1:32:43 PM
04-Nov-18 9:32:38 AM
```

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```
PS C:\Windows\system32> get-rubrikvm em2-jacobras-w1 | Get-RubrikSnapshot | Select-Object -First 1


date                  : 06-Nov-18 9:33:54 AM
indexState            : 1
slaName               : 4hr-30d-Azure
vmName                : em2-jacobras-w1
slaId                 : 5226f655-e1c1-4ba7-94fb-95e2bdbb1dd3
replicationLocationIds : {297cd5fc-253c-40c5-ad1c-60b090fb2a19}
archivalLocationIds   : {}
isOnDemandSnapshot    : False
cloudState            : 0
id                    : 59059f82-1de7-4493-a4c2-ccb3b24fbc4b
consistencyLevel      : VSS_CONSISTENT
```

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```
PS C:\Windows\system32> get-rubrikvm em2-jacobras-w1 | Get-RubrikSnapshot | Select-Object -First 1 | New-RubrikMount

Confirm
Are you sure you want to perform this action?
Performing the operation "Create a live mount request with given configuration" on target
"59059f82-1de7-4493-a4c2-ccb3b24fbc4b".
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "Y"): n
```

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Summary

Questions

Don't Backup. Go Forward.

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