



Cloud Expo 2020

Lorna Crawford
Performance Expert



Windows Virtual Desktop



Windows 10

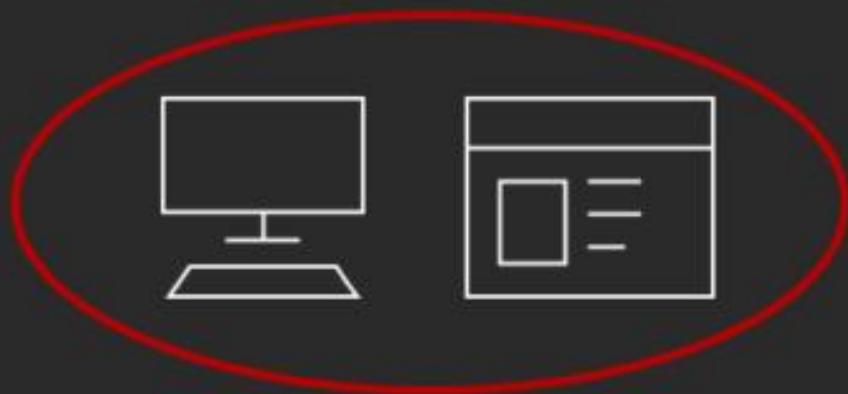
Windows 10 – Multi-User

Windows 7

Windows Server 2012 R2

Windows Server 2016

Windows Server 2019

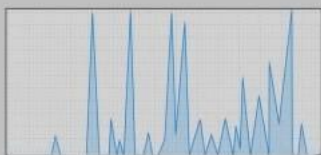




The only full multi-session
Windows 10 experience

Resource
Utilization

2vCPU/4GB RAM



2vCPU/4GB RAM



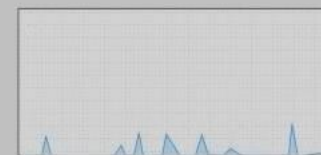
2vCPU/4GB RAM



2vCPU/4GB RAM



2vCPU/4GB RAM

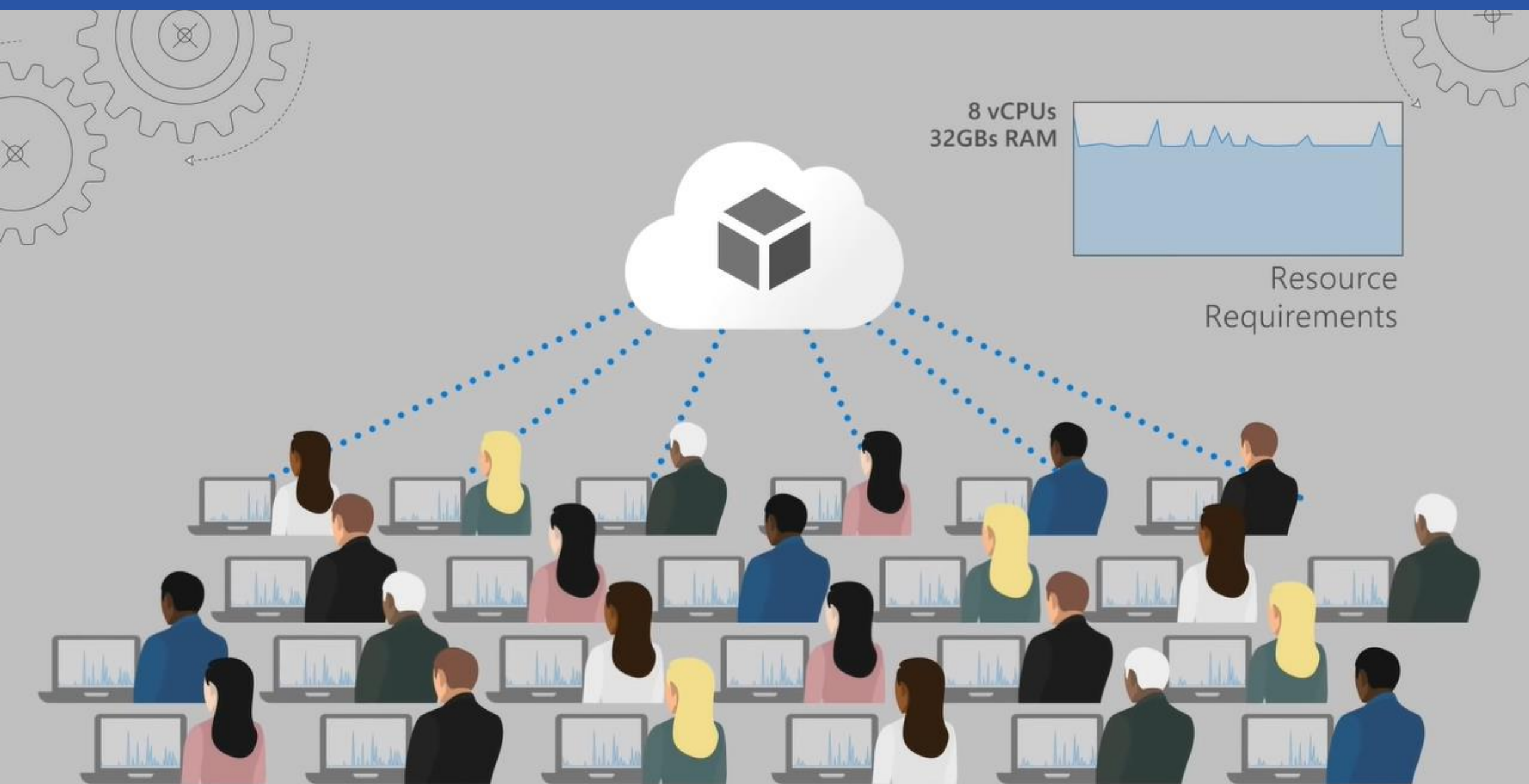


VMs



Users







Established in 2011



Dutch Company –
Offices in Amsterdam,
Boston, Glasgow &
Munich



Sold in 50+ Countries



1700+ Customer



“The industry standard
performance testing
solution for VDI”
Gartner

Technology that



performs for you.

Filter by title

Windows Virtual Desktop

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▼ Concepts

Windows Virtual Desktop environment

Determine user connection latency

Delegated access in Windows Virtual Desktop

Host pool load-balancing methods

FSLogix profile containers and Azure files

Storage options for FSLogix profile containers

Partner integrations

Windows 10 Enterprise multi-session FAQ

Data locations

> Troubleshoot

> Reference

> Resources

Windows Virtual Desktop partner integrations

02/13/2020 • 16 minutes to read •

This article lists approved partner providers and independent software vendors for Windows Virtual Desktop.

Login VSI



Login VSI is a Windows Virtual Desktop value-added services provider and Microsoft partner delivering software for application performance testing in Windows Virtual Desktop environments. Customers moving their on-premises business services to Windows Virtual Desktop use Login VSI Enterprise Edition to evaluate and maintain optimal performance, scalability, and availability of Windows 10 Enterprise multi-session, Windows 10 Enterprise, and Windows 7 enabled with their business critical applications.

- [Go to the partner website.](#)

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👍 Yes 👎 No

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Managed by Microsoft



Web access



Diagnostics



Gateway



Management



Broker



Load balancing



Windows 7
Enterprise



Windows 10
Enterprise



Windows 10 Enterprise
multi-user

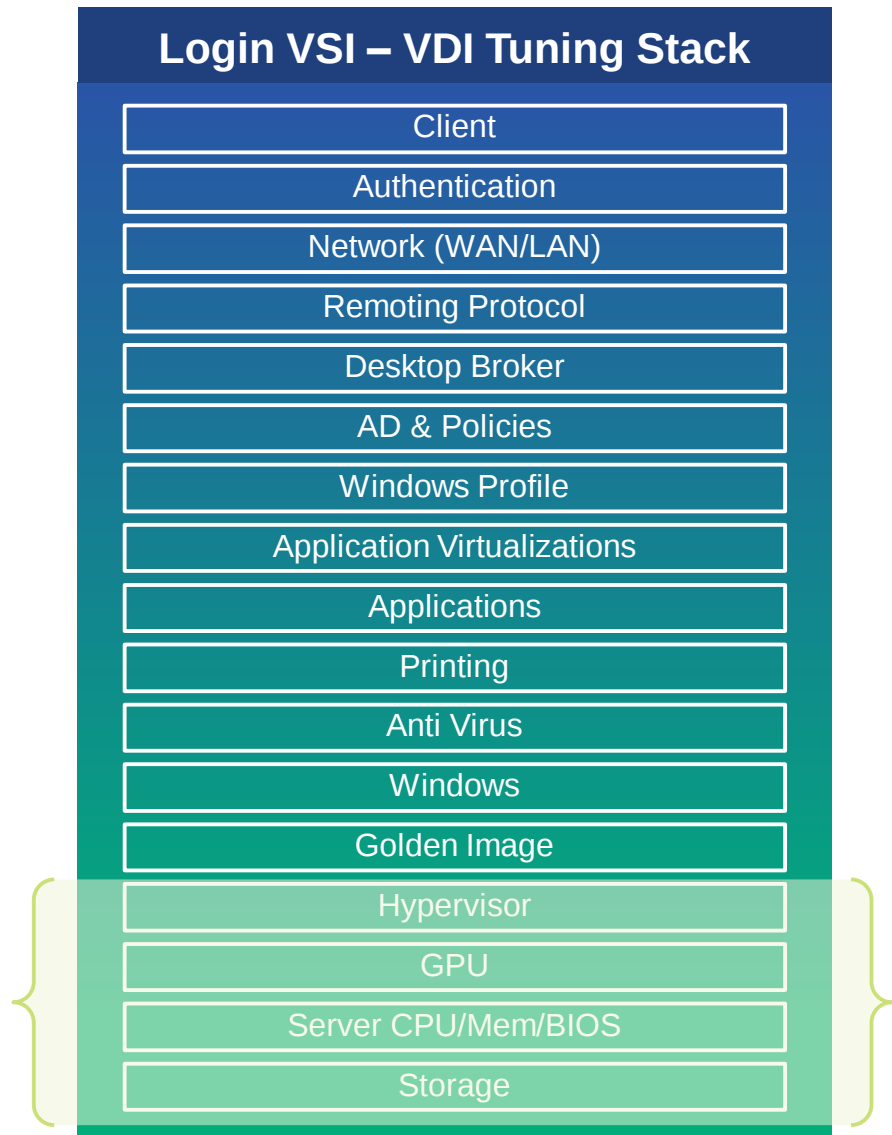


Windows Server
2012 R2 and up



RemoteApp

Your VMs



Planned Changes

4 per year
2 per year
2 per year
2 per year
4 per year
12 per year
2 per year
2 per year
1 per application per quarter
8 per year
1 per week
2 per year and 12 cumulative monthly updates
2 per year
2 per year
4 per year
2 per year
2 per year



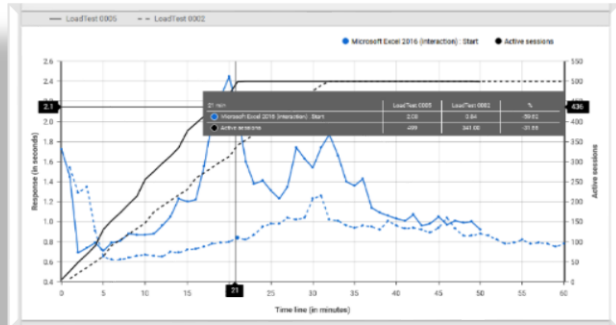
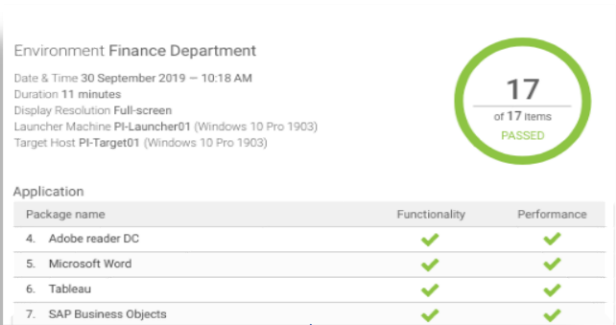
Office 365



How?



How we tested



Build or update images

Compatibility/Functional Testing

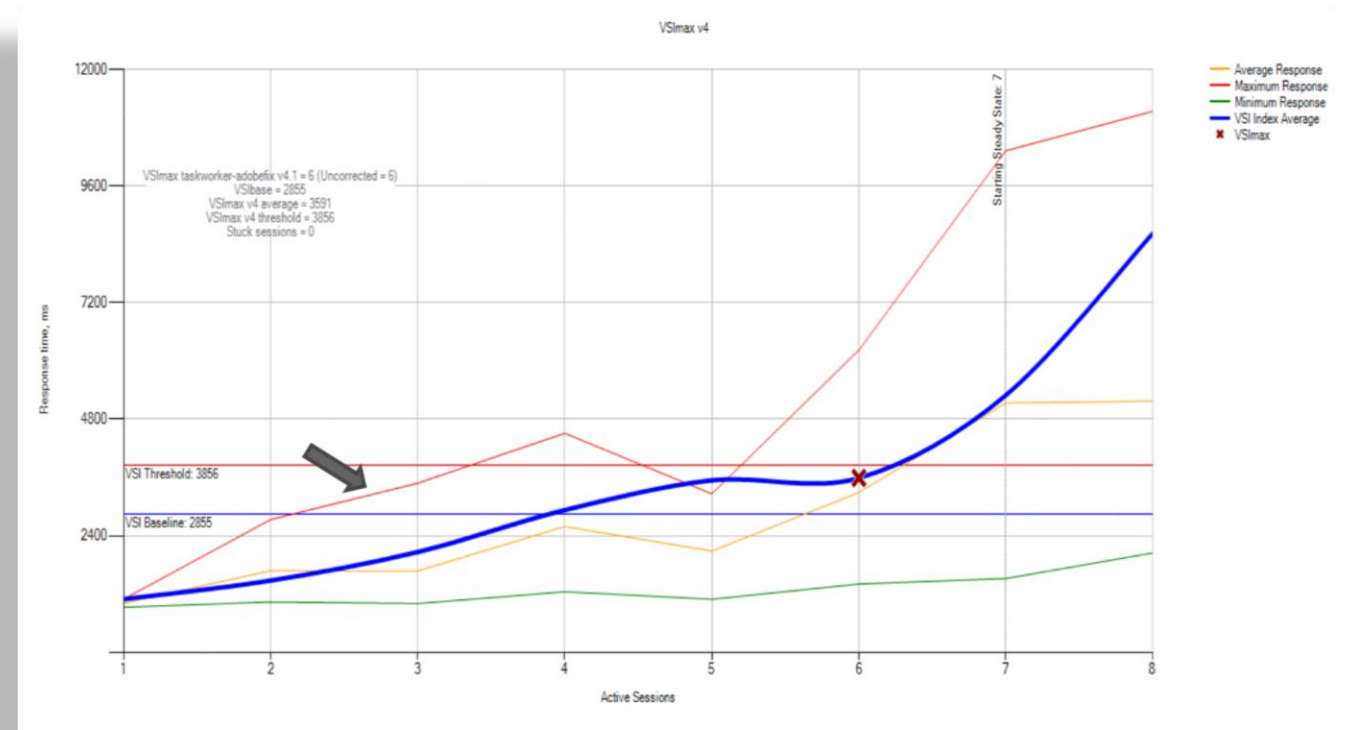
Desktop Load Testing
(For Virtual Environments)

Deploy to production environments

Continuous Performance & Availability Testing

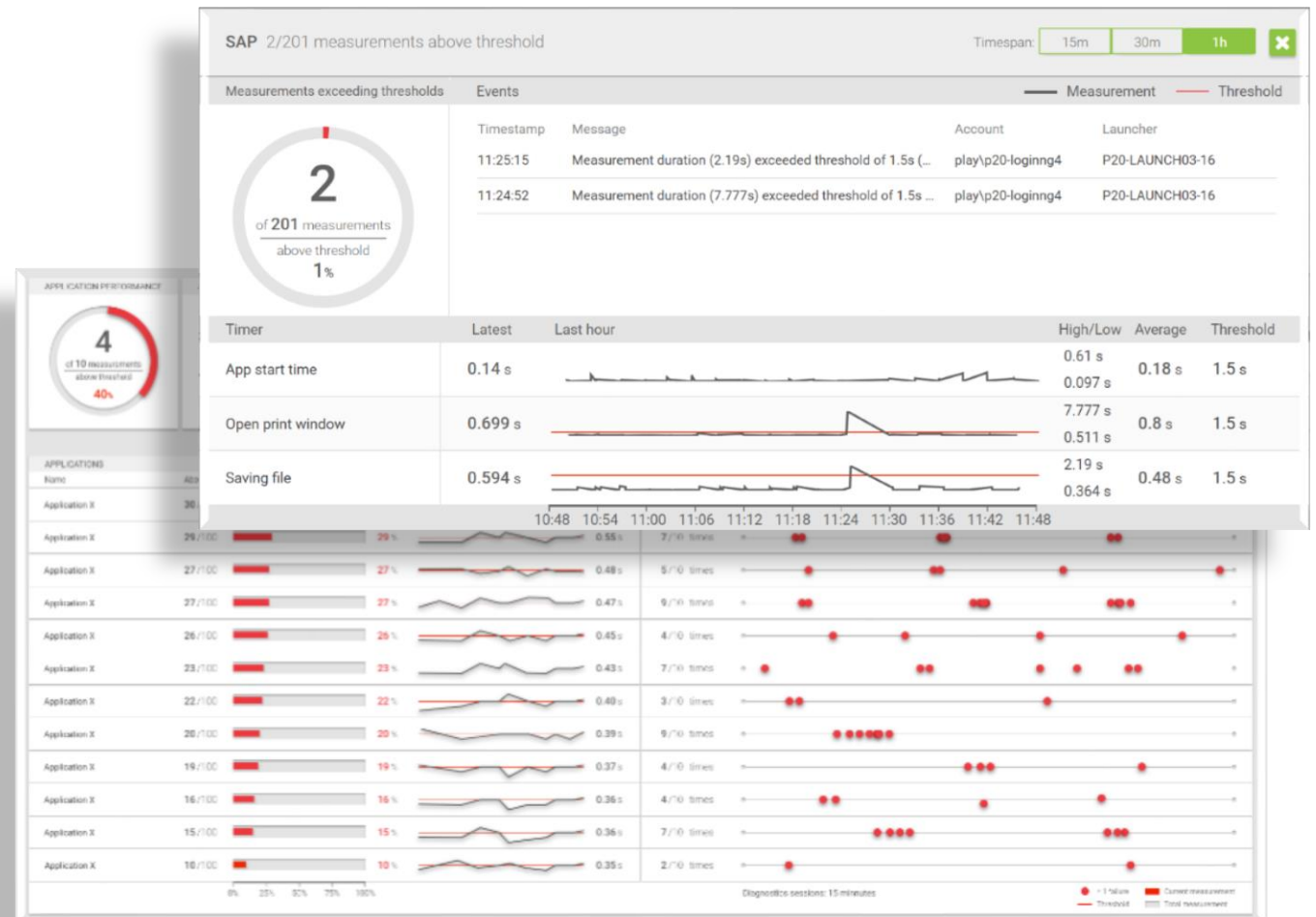
Desktop Load Testing

- End User versus Infrastructure Perspective
- Optimized Deployment
- Realistic Capacity



Continuous Availability & Performance Testing

- Workspace Performance
- Change Impact Validation
- Monitoring Estate Integration



What was tested

Windows 10 Enterprise multi-session



Windows 10 Enterprise multi-session, Version 1903 + Office 365 ProPlus

Microsoft

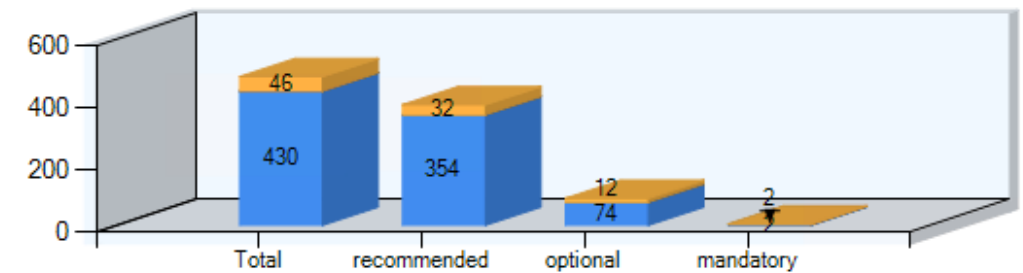
Windows 10 Enterprise multi-session, Version 1903 + Office 365 ProPlus

Some Nv Series, but mostly D16s_v3

VM Si...↑↓	Offering ↑↓	Family	↑↓	vCP...↑↓	RAM (...↑↓	Data disks↑↓	Max IOPS ↑↓
D15_v2	Standard	Memory optimized		20	140	64	64x500
D16_v3	Standard	General purpose		16	64	32	32x500
D16s_v3	Standard	General purpose		16	64	32	25600
D2	Standard	General purpose		2	7	8	8x500

Optimizations

Analysis Summary



Optimization Not Applied Optimization Applied

Results

Baselines (performance) and VSImax (capacity)

Users	Optimized	VSImax	Baseline	Logon Max	CPU Steady State
60 Test 2	Yes (full)	34	1305		95%
30 Test 1	Yes (full)	-	1270		38%
40 Test 1	Yes (full)	-	1211		50%
40 Test 2	Yes (full)	-	1162		50%
50 Test 1	Yes (full)	42	1206		60%
50 test 2	Yes (full)	47	1181	10	65%
60 Test 1	Yes (full)	46	1220	14	70%
65 Test 1	Yes (full)	43	1205	30	98%
30 Test 1	No	19	1969	28	45%
30 Test 2	No	19	1964	14	40%
40 Test 1	No	33	1283	19	60%
40 Test 2	No	38	1415	13	50%
45 Test 1	No	38	1289	16	65%
45 Test 1	Yes (OD&Cort On)	38	1156	12	55%
45 Test 2	Yes (OD&Cort On)	-	1197	10	58%
50 Test 1	Yes (OD&Cort On)	45	1196	12	65%
50 Test 2	Yes (OD&Cort On)	43	1197	10	65%
60 Test 1	Yes (OD&Cort On)	43	1185	28	95%
55 Test 1	Yes (OD&Cort On)	46	1210	10	75%
60 Test 1	Yes (OD&Cort On)	38	1180	15	90%

WE DID A LOT OF TESTING

D16s v3

A lot of testing goes into discovery of this new platform

Tested up to 160

Rule of 5 and 10?



47

VSImax

1000 Users
\$316,000 / Year

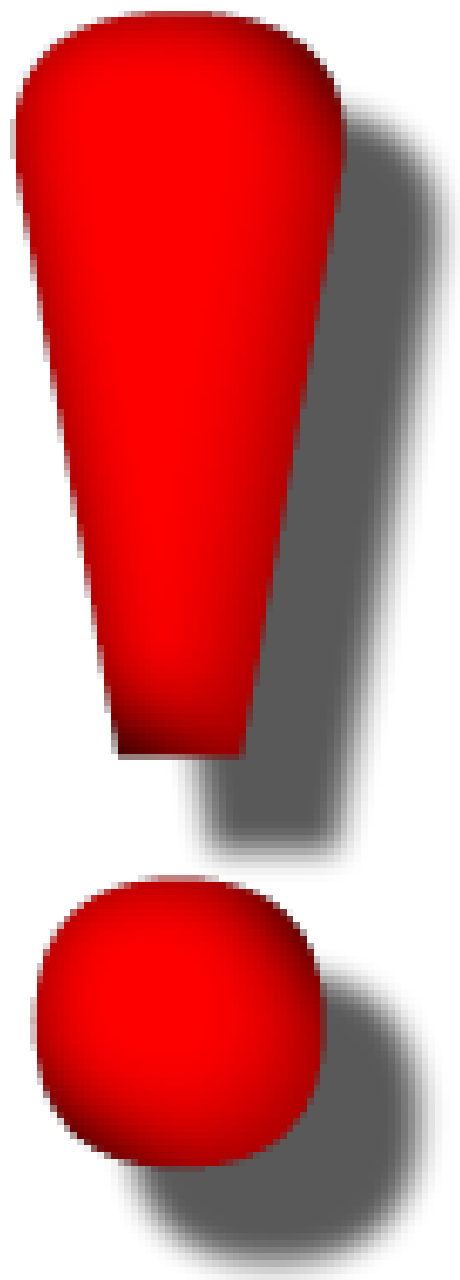


55

Steady State

1000 Users
\$270,000 / Year

\$46,000 savings





Thank You



info@loginvsi.com



LoginVSI.com

