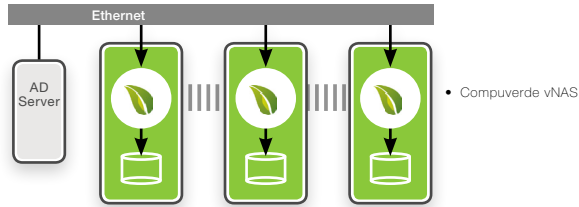


# SMB Protocol Compatibility Tests

January 2017

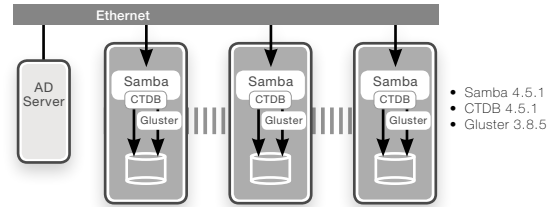
Test results comparing Compuverde Scale-out Storage with the compatibility found in storage solutions based on Samba.

## Compuverde Storage Cluster



Compuverde scale-out storage in one package, built from ground up in C++. No open source.

## Storage Cluster based on Samba



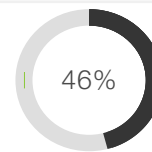
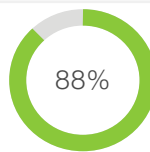
Using Samba for SMB, CTDB for cluster and Gluster for a CTDB clustered file system.

Compuverde 1.4.21

Samba 4.5.1

SMB

2.0 / 2.1 / 3.0 / 3.1.1



## SMB Features

	Total	Compuverde		Samba		WinServer	
		Passed	Passed	Passed	Passed		
<b>Remote Shared Virtual Disk</b>							
Version 1	17	0	0%	0	0%	17	100%
Version 2	11	0	0%	0	0%	11	100%
<b>Storage Quality of Service</b>	13	1	8%	1	8%	11	85%
<b>Authentication &amp; Authorization</b>							
Kerberos	15	0	0%	0	0%	1	7%
File Access	6	4	67%	4	67%	6	100%
Folder Access	6	6	100%	0	0%	6	100%
Share Access	7	7	100%	4	57%	4	57%
Claim Based Access	11	0	0%	0	0%	0	0%
<b>SMB 2&amp;3</b>							
Negotiate	107	107	100%	99	93%	107	100%
Replay	575	526	91%	85	15%	568	99%
Credit	53	53	100%	53	100%	53	100%
Signing	96	96	100%	96	100%	96	100%
Encryption	88	88	100%	88	100%	88	100%
MultipleChannel	8	8	100%	0	0%	8	100%
Session	223	222	100%	87	39%	223	100%
Tree	16	13	81%	12	75%	15	94%
CreateClose	32	30	94%	29	91%	32	100%
Oplock	341	329	96%	53	16%	341	100%
Directory Leasing	18	12	67%	2	11%	18	100%
Lease V1	276	254	92%	188	68%	276	100%
Lease V2	138	103	75%	9	7%	138	100%
DurableHandle	225	216	96%	169	75%	225	100%
Compound	2	2	100%	2	100%	2	100%
AppInstanceId	74	74	100%	58	78%	74	100%
AppInstanceVersion	7	7	100%	0	0%	7	100%
FSCTL / IOCTL	201	190	95%	97	48%	191	95%
CombinedFeature	12	11	92%	5	42%	11	92%
OperateOneFileFromTwoNodes	29	29	100%	29	100%	29	100%
MixedOplockLease	24	24	100%	24	100%	24	100%
ChangeNotify	1	1	100%	1	100%	1	100%
LockUnlock	1	1	100%	1	100%	1	100%
QueryAndSetFileInfo	1	1	100%	1	100%	1	100%
File Server Failover	10	0	0%	0	0%	9	90%
File Server Remote VSS	14	0	0%	0	0%	14	100%
Service Witness	26	2	8%	2	8%	20	77%
Distributed File System Referral	43	27	63%	27	63%	33	77%
File System Algorithms	465	351	75%	254	55%	452	97%
<b>Total</b>	<b>3192</b>	<b>2795</b>	<b>88%</b>	<b>1480</b>	<b>46%</b>	<b>3113</b>	<b>98%</b>

Tests made with Fileserver Family Test Suite version 1.0.5142.0 developed by Microsoft. Microsoft Windows Server 2016 version 10.0.14393.

Update: 2017-01-23