



activeimage protector

PERFORMANCE COMPARISON

Scenario 1: Backups stored on a local disk

SOFTWARE	Activeimage Protector 2018 M2			Arcserve UDP 6.5			ShadowProtect 5.2.7	System Recovery 16	Backup Advanced 12.5	
Vendors	ActiveImage			ARCserve			StorageCraft	Veritas	Acronis	
Encryption	non	non	non	non	non	non	non	non	non	non
Compression ratio	–	–	High	Standard	Standard	Max.	High	Software	Max.	–
De-duplication feature	Level 1	Level 2	–	ON	ON	–	–	–	–	ON
Block size	2KB	4KB (default)	–	16KB (default)	4KB	–	–	–	–	4KB
BACKUP										
Time to complete Backup task (hh:mm:ss)	2:54:55	2:19:51	2:01:29	2:52:41	3:27:26	2:05:38	3:34:30	7:32:11	1:58:48	4:56:18
Relativization of backup time (when setting AIP Level 2 as 1)	1,25	1,00	0,87	1,23	1,48	0,90	1,53	3,23	0,85	2,12
Backup speed (MB/sec.)	97,70	122,04	140,49	98,83	82,28	135,85	79,56	37,74	143,66	57,60
Image file size	519 GB	550 GB	730 GB	705 GB	623 GB	720 GB	743 GB	796 GB	552GB	611GB
Relativization of image file size (when setting AIP Level 2 as 1)	0.94	1,00	1,33	1,28	1,13	1,31	1,35	1,45	1,00	1,11
RESTORE										
Time to complete Restore task (hh:mm:ss)	2:09:22	1:55:52	1:35:38	3:37:31	4:21:18	1:40:08	3:04:52	5:48:26	4:25:01	9:34:08
Relativization of restore time (when setting AIP Level 2 as 1)	1,12	1,00	0,83	1,88	2,26	0,86	1,60	3,01	2,29	4,96
Restore speed (MB/Sec.)	131,92	147,30	178,46	78,46	65,31	170,44	92,32	48,98	64,40	29,73

* Test Data: 1TB (does not include system) 1,099,610,255,360 bytes 83,469 files 7,447 folders. ActiveImage Protector vs the Competitors as of January 30, 2018.

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Scenario 2: Backups stored on a network shared folder

SOFTWARE	Activeimage Protector 2018 M2			Arcserve UDP 6.5			ShadowProtect 5.2.7	System Recovery 16	Backup Advanced 12.5	
Vendors	ActiveImage			ARCserve			StorageCraft	Veritas	Acronis	
Encryption	non	non	non	non	non	non	non	non	non	non
Compression ratio	–	–	High	Standard	Standard	Max.	High	Software	Max.	–
De-duplication feature	Level 1	Level 2	–	ON	ON	–	–	–	–	ON
Block size	2KB	4KB (default)	–	16KB (default)	4KB	–	–	–	–	4KB
BACKUP										
Time to complete Backup task (hh:mm:ss)	3:29:08	2:54:01	3:21:48	2:49:37	2:47:48	2:52:54	6:11:56	16:45:46	10:26:18	5:01:01
Relativization of backup time (when setting AIP Level 2 as 1)	1,20	1,00	1,16	0.97	0.96	0.99	2,14	5,79	3,60	1,73
Backup speed (MB/sec.)	81,61	98,07	84,57	100,62	101,71	98,71	45,89	16,97	27,25	56,70
Image file size	519 GB	550 GB	730 GB	705 GB	623 GB	721 GB	744 GB	796 GB	527GB	610GB
Relativization of image file size (when setting AIP Level 2 as 1)	0,94	1,00	1,33	1,28	1,13	1,31	1,35	1,45	0.96	1,11
RESTORE										
Time to complete Restore task (hh:mm:ss)	3:06:11	2:46:57	2:21:37	5:12:18	5:44:30	2:45:35	3:27:11	8:37:31	6:09:05	16:40:25
Relativization of restore time (when setting AIP Level 2 as 1)	1,12	1,00	0,85	1,87	2,06	0,99	1,24	3,10	2,21	5,99
Restore speed (MB/vSec.)	91,67	102,23	120,51	54,65	49,54	103,07	82,37	32,98	32,98	17,06

* Test Data: 1TB (does not include system) 1,099,610,255,360 bytes 83,469 files 7,447 folders. ActiveImage Protector vs the Competitors as of January 30, 2018.

OS: Windows Server 2012 R2
CPU: Intel Core i5-5600 3.2GHz
MEMORY: 64GB
HDD interface: SATA
 Disk0 : system; Disk1 : backup source 1TB; Disk2 : backup target
NIC: Gigabit



OS: Free NAS 11.0
CPU: AMD Turion II Neo N54L DualCore
MEMORY: 16GB
HDD interface: SATA Raid0 (HP Smart Array P212)
NIC: Gigabit

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