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사이징 방법 #1 (일반) – Veeam Backup Server

항목	Small <= 250VM (120 물리서버)	Medium <= 500VM (250 물리서버)	Large < = 1000VM (500 물리서버)
Veeam Backup Server			
CPU	Intel Dual Xeon Processor 8 Cores	Intel Dual Xeon Processor 16 Cores	Intel Dual Xeon Processor 20 Cores
Memory	8GB	16GB	24GB
OS Disk	RAID 1 (15K SAS)	RAID 1 (SSD \ 15K SAS)	RAID 1 (SSD)
동시 작업 개수	20	Based on Proxy Sizing	
소프트웨어 설치 공간	40GB		
로그 파일	7.5GB	15GB	30GB
vPower NFS 폴더	Instant 복구할 VM의 메모리 사이즈 + 200 MB (**Minimum 10GB Free**) Example: (32GB + 200MB = 32.2GB)		
운영체제	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019		
소프트웨어	Microsoft .NET Framework 4.6, Microsoft Windows Installer 4.5, Microsoft SQL Server Management Objects, Microsoft SQL Server System CLR Types, Microsoft Report Viewer Redistributable 2015, Microsoft PowerShell 2.0		
SQL Database	SQL Express (<10GB)	SQL Standard	SQL Standard

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사이징 방법 #1 (일반) – Veeam Backup Proxy

항목	물리 서버 Proxy	가상 VM Proxy
CPU	2 x 8 Core CPU (16 Core)	4vCPU
Memory	16GB	8GB
OS Disk	10GB	10GB
동시 작업 개수	8	4
작업 당 VM 개수 (Number of VM Count & Size)	70VM (8TB in Size)	40VM (4TB in Size)
네트워크	2 x 10Gbps	10Gbps
Fiber Channel	2 x 16Gbps FC (Reading)	NA
운영체제	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019	
소프트웨어	For a vSphere 5.5 or later backup proxy server running on Microsoft Windows Server 2008 or earlier: Microsoft Visual C++ 2008 SP1 Redistributable Package (x64). Installation package can be downloaded from http://vee.am/runtime.	
Compression Level	Optimal	
Storage Optimization	Local Target (1,024 Block Size) -> Backup Jobs with Maximum of 16TB Source Data LAN Target (512KB Block Size) -> Replication Jobs with Maximum of 8TB Source Data	

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사이징 방법 #1 (일반) – Repository 서버 & 기타

항목	Backup Repository Server	VBR Console	WAN Accelerator	Gateway Server
CPU	x86-64 Processor	x86-64 Processor	x86-64 Multi Core Processor	x86-64 Processor
Memory	32GB	2GB	8GB	8GB
OS Disk	40GB	5GB	100GB -> Global Cache 10GB Per OS Type SSD Disk Type	40GB
네트워크	10 Gbps	1 Mbps to Veeam Backup Server	10 Gbps	10 Gbps
운영체제	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019 Linux (bash shell, SSH and Perl are required).	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019 / 10	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019
비고	Ratio of 3 Proxy to 1 Repository Servers =~1500VM Count	VBR Server와 같이 사용 또는 별도 콘솔	Required WAN/LAN, MBs = ([Amount of total daily changes, MB/replication window, hours]/3600) x 8	Dedupe Appliance 연결 필요

사이징 방법 #1 (일반) – 기타 서버

항목	Veeam Enterprise Manager	Veeam One Server	Microsoft SQL Server	Veeam One UI (Web & Monitor)
CPU	x64 Processor	8 – 12 vCPUs for 100 – 500 hosts	8 – 12 vCPUs for 100 – 500 hosts	x64 Processor (4 Cores)
Memory	4GB	32GB	32GB	16GB
OS Disk	2GB	OS Drive: 50GB Application drive: 50GB	OS Drive: 50 GB Application Drive - Primary Tables: 20% - Secondary Tables: 80%	40GB
네트워크	1 Gbps	1 Gbps	1 Gbps	1 Gbps
운영체제	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019
SQL Server	SQL Server 2014 \ 2016	NA	SQL Server 2014 \ 2016 Enterprise Edition Microsoft SQL Server Reporting Services 2014 or 2016	NA

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사이징 방법 #1 (일반) – All-In-One (Backup + Proxy + Repository)

항목	Small <= 250VM (120 물리서버)	Medium <= 500VM (250 물리서버)	Large < = 1000VM (500 물리서버)
Veeam Backup Server + Veeam Proxy + Veeam Repository			
CPU	Intel Dual Xeon Processor 16 Cores	Intel Dual Xeon Processor 24 Cores	Intel Dual Xeon Processor 32 Cores
Memory	32GB	64GB	128GB
OS Disk	RAID 1 (15K SAS)	RAID 1 (SSD \ 15K SAS)	RAID 1 (SSD)
동시 작업 개수	20	Based on Proxy Sizing	
소프트웨어 설치 공간	40GB		
로그 파일	7.5GB	15GB	30GB
vPower NFS 폴더	Instant 복구할 VM의 메모리 사이즈 + 200 MB (**Minimum 10GB Free**) Example: (32GB + 200MB = 32.2GB)		
운영체제	Microsoft 64 Bit Windows 2012 R2 / 2016 / 2019		
소프트웨어	Microsoft .NET Framework 4.6, Microsoft Windows Installer 4.5, Microsoft SQL Server Management Objects, Microsoft SQL Server System CLR Types, Microsoft Report Viewer Redistributable 2015, Microsoft PowerShell 2.0		
SQL Database	SQL Express (<10GB)	SQL Standard	SQL Standard

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