Hardware & System Software Recommendation CBAS-SLIK

1. PLAN A: Target Maksimal handling 2 ribu request per hari

Application Server		
Function	Detail Specification	
Windows Server	Server Type	App Server
IIS 8	Processor Brand	Intel
JDK 1.8	Processor Speed	2.2 GHz
.NET Framework 4.5.2	Total Cores	14
	Total Memory	16 GB
	Internal disk	2 TB
	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Database Server	_	
Function	· ·	ecification
	Server Type	DB Server
	Processor Brand	Intel
	Processor Speed	2.2 Ghz
	Total Cores	14
Mindows Comer	Total Memory	20 GB
Windows Server Microsoft SQL Server	Internal disk	2 TB
wicrosojt SQL Server	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Desktop Agent	1	
Function		ecification
	Server Type	PC Desktop
	Processor Brand	Intel
.NET Framework 4.5.2	Processor Speed	Core i5
SQL Express 2012	Total Cores	
JRE 1.8	Total Memory	<mark>8 GB</mark>
SLIK Retrieval Engine (Desktop app)	Internal disk	512 GB
	Operating System	Windows 7
	Ethernet Card	100 Mbps
	SAN Storage	

2. PLAN B: Target Maksimal handling 5 ribu request per hari

Application Server		
Function	Detail Specification	
Windows Server	Server Type	App Server
IIS 8	Processor Brand	Intel
JDK 1.8	Processor Speed	2.2 GHz
.NET Framework 4.5.2	Total Cores	14
	Total Memory	20 GB
	Internal disk	2 TB
	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Database Server		
Function	Detail Specification	
	Server Type	DB Server
	Processor Brand	Intel
	Processor Speed	2.2 Ghz
	Total Cores	14
	Total Memory	24 GB
Windows Server	Internal disk	2 TB
Microsoft SQL Server	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Desktop Agent		
Function	<u> </u>	ecification
	Server Type	PC Desktop
	Processor Brand	Intel
.NET Framework 4.5.2	Processor Speed	Core i5
SQL Express 2012	Total Cores	
JRE 1.8	Total Memory	<mark>8 GB</mark>
SLIK Retrieval Engine (Desktop app)	Internal disk	512 GB
	Operating System	Windows 7
	Ethernet Card	100 Mbps
	SAN Storage	

3. PLAN C: Target Maksimal handling 10 ribu request per hari

Application Server		
Function	Detail Specification	
Windows Server	Server Type	App Server
IIS 8	Processor Brand	Intel
JDK 1.8 .NET Framework 4.5.2	Processor Speed	2.2 GHz
.NET Frumework 4.5.2	Total Cores	14
	Total Memory	24 GB
	Internal disk	2 TB
	Operating System	Windows Server
		(support for
		Windows Server
	Ethernet Card	2016) Gigabit
	SAN Storage	- Cigabit
Database Server	3, 3 to . age	
Function	Detail Specification	
	Server Type	DB Server
	Processor Brand	Intel
	Processor Speed	2.2 Ghz
	Total Cores	14
	Total Memory	28 GB
Windows Server	Internal disk	2 TB
Microsoft SQL Server	Operating System	Windows Server
		(support for
		Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	- 0
Desktop Agent		
Function	Detail Spe	cification
	Server Type	PC Desktop
	Processor Brand	Intel
.NET Framework 4.5.2	Processor Speed	Core i5
SQL Express 2012	Total Cores	
JRE 1.8	Total Memory	<mark>8 GB</mark>
SLIK Retrieval Engine (Desktop app)	Internal disk	512 GB
	Operating System	Windows 7
	Ethernet Card	100 Mbps
	SAN Storage	

4. PLAN D : Target Maksimal handling 20 ribu request per hari

Application Server		
Function	Detail Spe	ecification
Windows Server	Server Type	App Server
IIS 8	Processor Brand	Intel
JDK 1.8	Processor Speed	2.2 GHz
.NET Framework 4.5.2	Total Cores	14
	Total Memory	32 GB
	Internal disk	2 TB
	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Database Server		
Function	Detail Specification	
	Server Type	DB Server
	Processor Brand	Intel
	Processor Speed	2.2 Ghz
	Total Cores	14
	Total Memory	32 GB
Windows Server	Internal disk	2 TB
Microsoft SQL Server	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Desktop Agent		
Function	Detail Spe	T
	Server Type	PC Desktop
	Processor Brand	Intel
.NET Framework 4.5.2	Processor Speed	Core i5
SQL Express 2012	Total Cores	
JRE 1.8	Total Memory	<mark>8 GB</mark>
SLIK Retrieval Engine (Desktop app)	Internal disk	512 GB
	Operating System	Windows 7
	Ethernet Card	100 Mbps
	SAN Storage	

5. PLAN E: Target Maksimal handling 25 ribu request per hari

Application Server		•		
Function	Detail Sp	Detail Specification		
Windows Server	Server Type	App Server		
IIS 8	Processor Brand	Intel		
JDK 1.8	Processor Speed	2.2 GHz		
.NET Framework 4.5.2	Total Cores	14		
	Total Memory	48 GB		
	Internal disk	2 TB		
	Operating System	Windows Server		
	Operating System	(support for		
		Windows Server		
		2016)		
	Ethernet Card	Gigabit		
	SAN Storage			
Database Server				
Function	Detail Specification			
	Server Type	DB Server		
	Processor Brand	Intel		
	Processor Speed	2.2 Ghz		
	Total Cores	14		
Windows Server	Total Memory	48 GB		
Microsoft SQL Server 2017	Internal disk	2 TB		
professional	Operating System	Windows Server		
		(support for		
		Windows Server		
		2016)		
	Ethernet Card	Gigabit		
-	SAN Storage			
Desktop Agent 1 agent = +-2,5 ribu hit per hari (24 jam)				
jika target 25 ribu hit per hari maka butu	h 10 agent (25 ribu / 2,5 ı	ribu)		
Function		ecification		
	Server Type	PC Desktop		
	Processor Brand	Intel		
	Processor Speed	Core i5		
.NET Framework 4.5.2	Total Cores			
JDK 1.8 SUK Patrioval Engine (Dockton ann)	Total Memory	8 GB		
SLIK Retrieval Engine (Desktop app)	Internal disk	512 GB		
	Operating System	Windows 7		
	Ethernet Card	100 Mbps		
	SAN Storage	1		

6. PLAN F: Target Maksimal handling 30 ribu request per hari

Application Server		
Function	Detail Specification	
Windows Server	Server Type	App Server
IIS 8	Processor Brand	Intel
JDK 1.8 .NET Framework 4.5.2	Processor Speed	2.2 GHz
.NET Framework 4.5.2	Total Cores	14
	Total Memory	64 GB
	Internal disk	2 TB
	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Database Server		
Function	·	ecification
	Server Type	DB Server
	Processor Brand	Intel
	Processor Speed	2.2 Ghz
	Total Cores	14
Windows Server	Total Memory	64 GB
Microsoft SQL Server 2017	Internal disk	2 TB
professional	Operating System	Windows Server (support for Windows Server 2016)
	Ethernet Card	Gigabit
	SAN Storage	
Desktop Agent 1 agent = +-2,5 ribu hit per hari (24 jam) jika target 30 ribu hit per hari maka butuh 12 agent (30 ribu / 2,5 ribu)		
Function	Detail Spe	ecification
	Server Type	PC Desktop
.NET Framework 4.5.2 JDK 1.8 SLIK Retrieval Engine (Desktop app)	Processor Brand	Intel
	Processor Speed	Core i5
	Total Cores	
	Total Memory	<mark>8 GB</mark>
The state of the s	Internal disk	512 GB
	Operating System	Windows 7
	Ethernet Card	100 Mbps
	SAN Storage	

Notes:

- 1. Plan yang akan diimplementasikan disesuaikan dengan kebutuhan client handling request checking SLIK per hari. Sehingga Plan mana yang akan dipilih client yang menentukan.
- 2. Server Aplikasi untuk web portal, Server Untuk Database, dan Desktop agent direkomendasikan untuk dipisah.
- 3. Desktop Agent wajib bisa terhubung ke web SLIK melalui internet untuk keperluan checking Web SLIK. Untuk Server Web Portal dan Server Database bisa hanya terhubung melalui intranet saja karena tidak ada keperluan untuk checking ke Web SLIK.
- 4. spesifikasi Desktop Agent di atas hanya untuk per user. Misal akan diimplementasikan concurrent 10 user maka diperlukan 10 Desktop Agent dengan masing-masing spesifikasinya seperti table di atas.