

## Hardware & System Software Recommendation CBAS-SLIK

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

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

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

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

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

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

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

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

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

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

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

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