

Microsoft Power Bl Application Landscape

KPMG Tax and Advisory Limited Branch April 2020

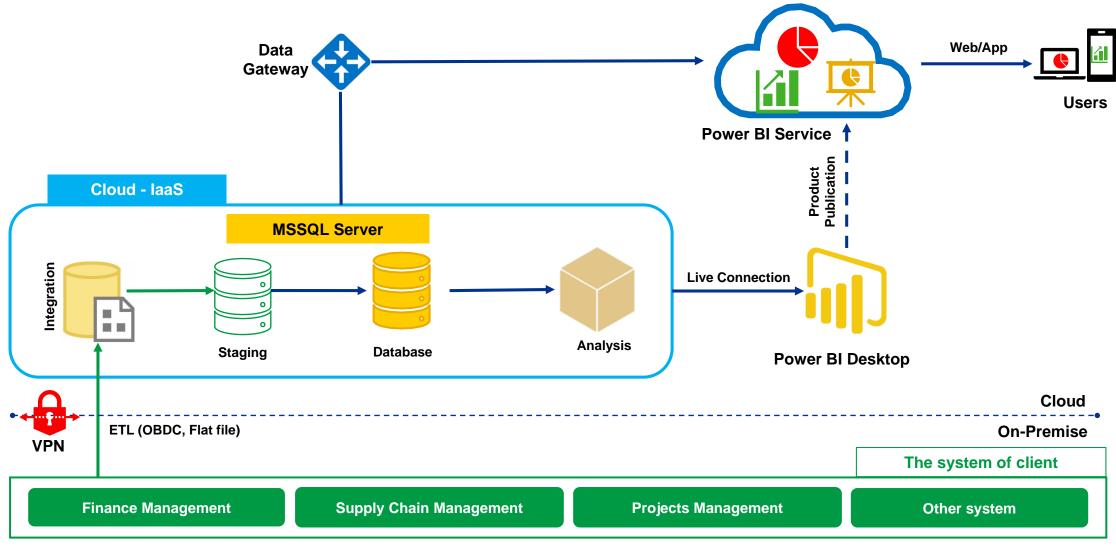
Agenda

- ✓ Microsoft To-be Power BI Architecture On-Cloud Server
- ✓ Hardware Sizing for Data Warehouse with the Optimized shape
- ✓ Cost Components Estimation for reference



Microsoft To-be Power Bl Architecture - On-Cloud Server







Hardware Sizing for Data Warehouse with the Optimized shape

No	Component	Quantity
1	Core of CPU(s) (Processor)	8 Cores
2	Ram (Memory)	64 GB
3	SSD (Storage for OS & Data)	512 GB

The sizing methodology is based on the recommendations of Microsoft sizing document dedicated for data warehouse with Microsoft SQL Server - Enterprise Edition combines with KPMG's experience with the below following assumptions:

- Data Sources and Data Models:
- ✓ Total number of Users: <= 10
- ✓ Total number of Reports/ KPIs/ Analytics: <= 50
- √ Total number of Dashboards: <= 10
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- ✓ Max rows returns of Analytics: 100,000
- ✓ Max rows returns of unformatted Reports: 1,000,000
- ✓ The available features of Power BI Pro: https://powerbi.microsoft.com/en-us/pricing/#powerbi-comparison-table

- ✓ Optimized shape for implementation phase & 1st year Going live. After 1st year, Data Warehouse may be considered to scale up based on the actual usage.
- ✓ Disaster Recovery & High Availability are not covered
- ✓ Dev/Test and Production environment will be utilized in the same environment.

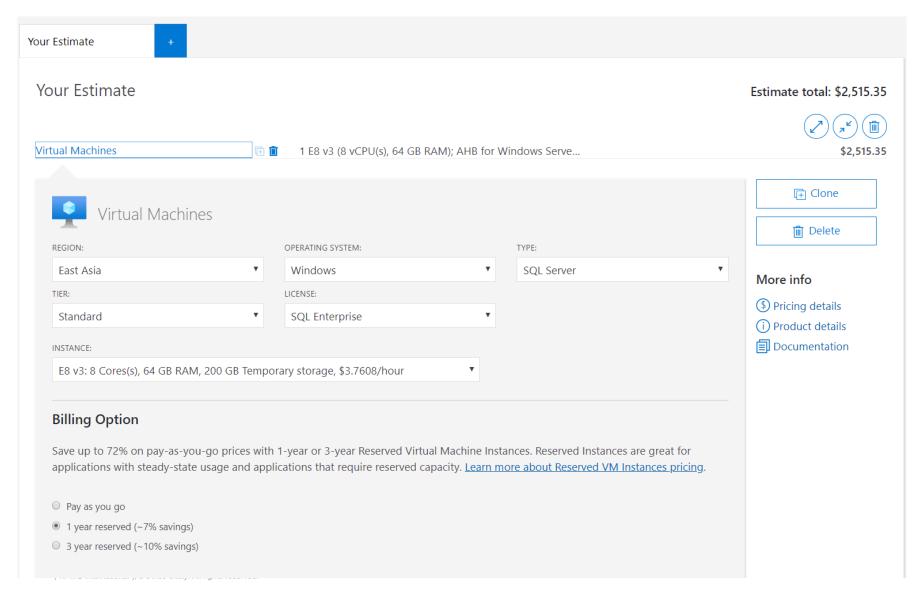


Cost Components Estimation for reference

No	Cost Component	Type	Option 1 (Viettel Cloud)	Option 2 (Azure Cloud)	Note Note Note
1	Subscription Fee for Microsoft Power BI Pro 10 Users	Annual	\$1,200	\$1,200	 ✓ Minimum #Users: 10 ✓ Microsoft Power BI Pricing for reference: https://powerbi.microsoft.com/en-us/pricing/
2	License Fee for Microsoft SQL Server – Enterprise Edition 8 Cores	One time	\$56,000	\$56,000	 ✓ Microsoft SQL Server Pricing for reference: https://www.microsoft.com/en-us/sql-server/sql-server-2019-pricing ✓ This is the list price for license. It could be get high discount during actual negotiation
3	Subscription Fee for Hardware - CPU: 8 Cores - RAM: 64 GB - Storage: 512 GB	Annual	\$6,500	\$30,000	 ✓ Viettel Cloud Server Pricing for reference: https://viettelidc.com.vn/cloud-server ✓ Microsoft Azure Cloud Pricing for reference: https://azure.microsoft.com/en-us/pricing/calculator/
4	License Fee for Microsoft Window Server	Annual	N/A	N/A	✓ Utilize the existing license
5	Professional Fee of 3 rd Vendors development for integration & automation of data source (Bravo, KBH)	Annual	N/A	N/A	✓ It is based on the design of integration & automation of data source and 3 rd Vendors charge rate (Bravo, KBH)
6	Internal IT Development resource	Annual	N/A	N/A	✓ This resources to join the project, coordinate 3 rd resources & KPMG project team, receive the transition from KPMG, etc.

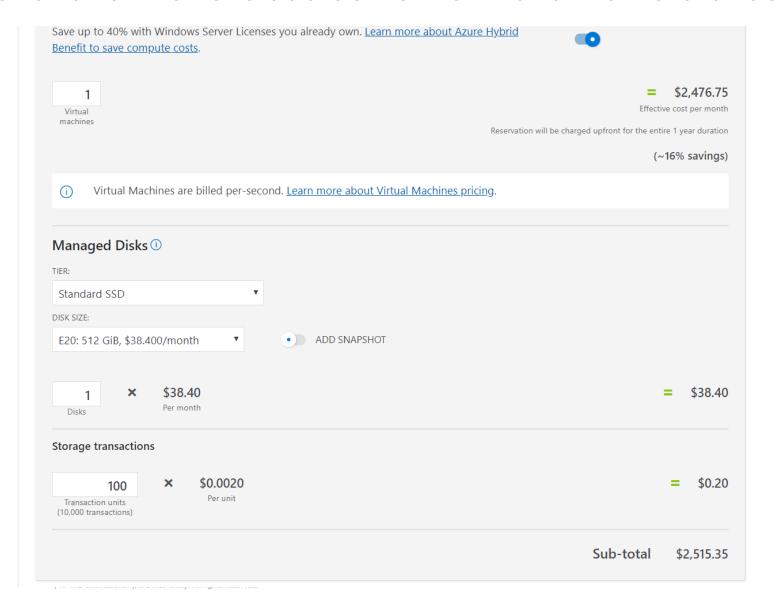


Screenshot of Viettel Cloud Server Estimation for reference



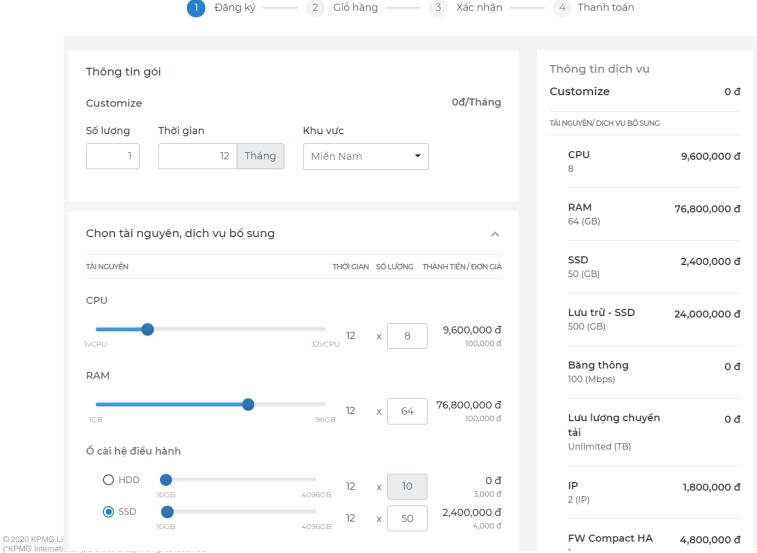


Screenshot of Viettel Cloud Server Estimation for reference



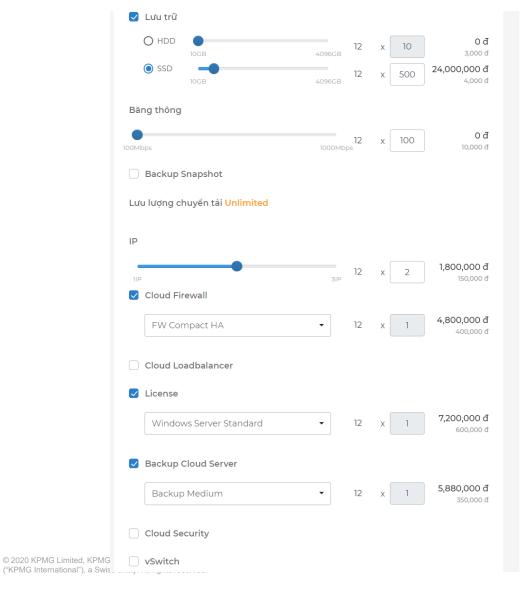


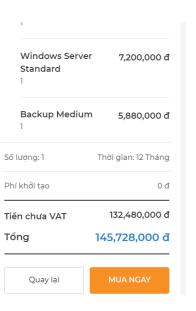
Screenshot of Microsoft Azure Cloud Estimation for reference





Screenshot of Microsoft Azure Cloud Estimation for reference













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