

Module 2.4 Assignment

Submission by Group 2
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Define your Business

- We are an e-commerce (B2C) business selling men/women clothings, accessories, shoes, etc.
- We located in Singapore with markets in East Asia and Latin Americas.
- We have now 340 mil monthly visitors.

Define the threats if adopt IaaS

- Difficulty in getting the right technical infra resources due to a shortage or high-competition for talents globally
- Big budget and highly-specialized skills are needed to maintain and keep our ecommerce platform applications secure and safe from cyber-threats on an ongoing basis - the application challenge of secure-by-design requirement since the IaaS provider can only ensure the infra security
- Depending on cloud provider's data storage geographic locations, there may be compliance issue with regards to local data sovereignty laws in markets where we operate

Define the threats if adopt PaaS

- Though PaaS approach can offer quick-time-to-market for our ecommerce platform, it also presents a high dependency on our cloud provider, AWS, who is also our competitor with Amazon.
- Potential cyber attackers exploiting vulnerabilities on the PaaS platform to gain control or steal sensitive data.
- If applications are not built using secure coding practices, it can result in security vulnerabilities within the application.
- As the complexity of the PaaS infrastructure increases, it can become difficult to achieve visibility, detect security threats, and understand how to mitigate them.

Define the threats if adopt SaaS

- SaaS providers generally discourage customization to their ready products. Features might be limited to what providers already have.
- If the SaaS providers do not conform to Industry standards, then users of the system will face difficulty when trying to integrate with other SaaS providers.
- SaaS products are hosted online, making the users dependent on the service providers to up the systems during outage.
- Total Cost of Ownership may not be cheaper than on-prem solutions.
- Security risk if sensitive or classified data are stored on SaaS providers' servers. Need to ensure that providers conform to some form of cybersecurity protocols/standards?