

High-scale e-Commerce solution with Azure PaaS

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Exam Question 1

You need to develop an eCommerce web application with a huge catalog of SKUs, search features, orders management and few other amenities, how can you do it?

- a) Use a CMS
- b) Write it custom
- c) Assemble existing services
- d) All of the above

Exam Question 2

Solution must be multi-tenant. And scalable. How can we build the end-to-end system using the minimal amount of administrative effort in production?

- a) Configure VMs and deploy them the code
- b) Use PaaS services for each building block we need
- c) Use containers
- d) Ask Siri

📶 TIM 📶

17:11

🔋 45%

Hey Siri can you please
implement a multi-tenant,
scalable, web application with
minimal amount of
administrative effort?

Tap to Edit >

**OK, I found this on the web for
'implement a multi-tenant,
scalable, web application with
minimal amount of
administrative effort?':**



WEBSITES

**Securing DOD Web Applications with
a Scalable ... - Pulse Secure**

DOD IT organizations also need to adapt to
new challenges, such as: Security of

?



📶 TIM 📶

17:13

🔋 45% 🔋

I just want you to do the work
for me

Tap to Edit >

Who, me?



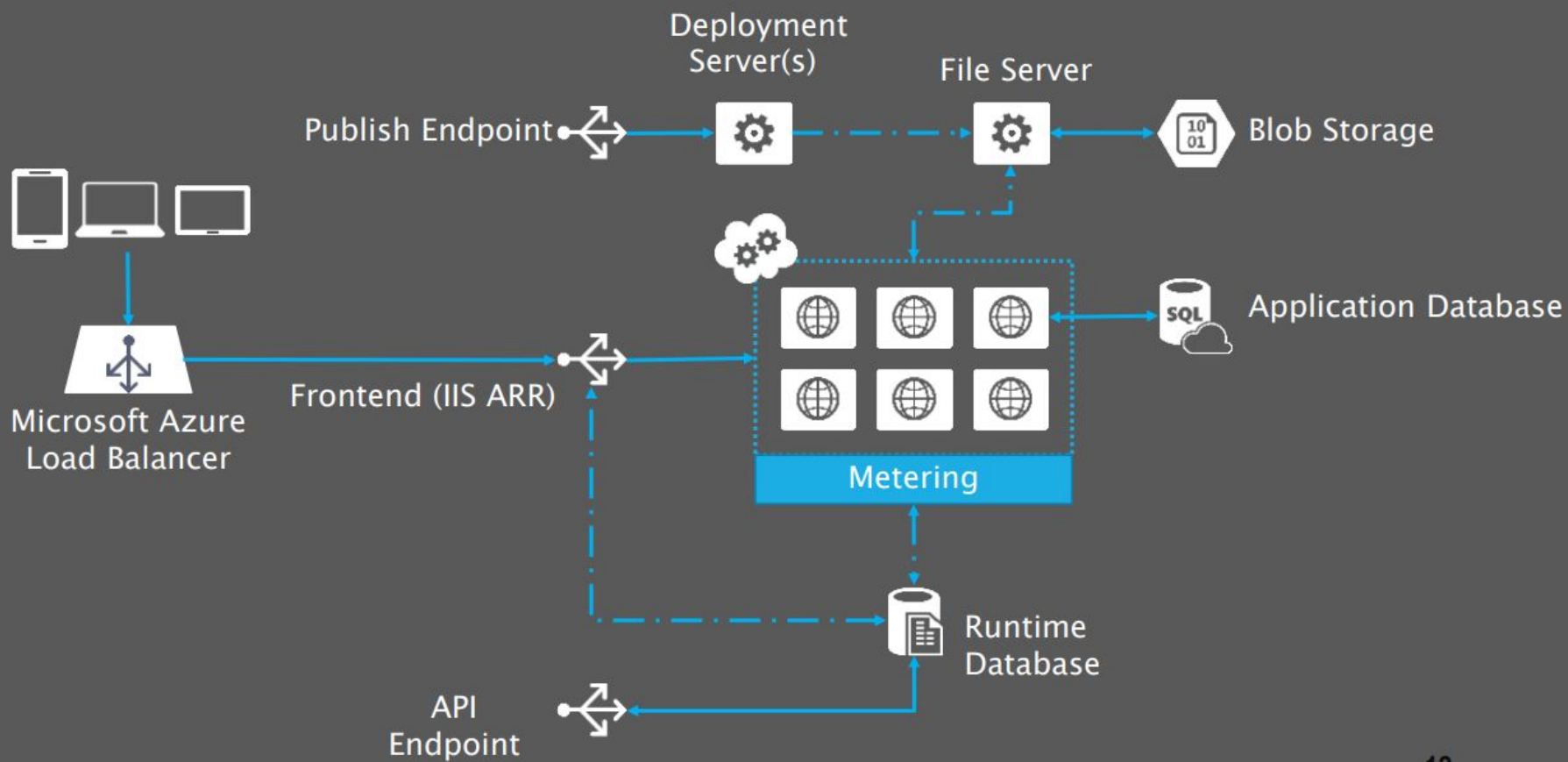
Design for failures

And for scalability, security and robustness

Hosting the web tiers

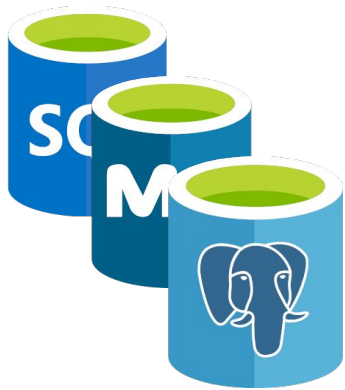
- Web/API tiers should be:
 - Stateless
 - Portable
 - Independent from the underlying OS
 - Scalable
 - Isolated (but pooled)





Managing the state

- Offload relational where possible
- Use NoSQL for evolving features
- Use also «simple» storage for isolated micro-services



Look at features first

Technologies serving the features

Adding search

- Search must be full-text
- Must support:
 - Filters
 - Grouping
 - Ordering
 - Custom analyzer



Reacting to events

Registrations, Orders, state changes

Mediating between parties

- Every (micro-)service should communicate through mediators
 - Events relate to messages
 - Messages relate to subscribers
 - Subscribers relate to actions



Final Exam Question

Is Platform-as-a-Service the most beautiful, elegant, time-saving, nice-looking, politically correct and gluten free way to approach challenging projects?

a) Yes

b) Yes

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