

Write-up Template

Analyze, choose, and justify the appropriate resource option for deploying the app.

For **both** a VM or App Service solution for the CMS app: **Analyze costs, scalability, availability, and workflow Costs:**

- Costs difference from case to case in general. It depends on the other factors and the real needs. For CMS Test it is enough to have a Free App Service. Later On, on production it depends on real needs usage, needed performance, etc.
- Test Would be free for App Service and would cost around 4 euros for the VM. In Prod the price would be at the lowest 69 Euro for the App Service and you get it for the same money a VM but it depends extremely on your needs!

scalability and availability:

- Auto Scaling and high-availability for the App Service till a certain point like RAM max of 32GB. With VMs you have full flexible options. You can setup multiple machines, group them, have a load balancer, redundancy etc. That will increase the costs heavily but makes sense in some production cases to build complex, High-AV and multi scalable infrastructure.

workflow: workflow is similar in both cases. App Services can be easily deployed by external repos like github without any huge knowledge of installation/running and OS insights.

Choose the appropriate solution (VM or App Service) for deploying the app

- App Service

Justify your choice

- For this project I would choose App Service instead of a VM due to costs, workflow and scalability. It is easy to add the code from an external repo, scale easily without having too much understanding of the OS (and we do not have to take care of). But most important, it's an easy App without any specialties and we should focus on cost efficiency. All what we need esp. for test is given in App service.

Assess app changes that would change your decision.

Detail how the app and any other needs would have to change for you to change your decision in the last section.

- I would switch to a VM if I want to scale up (higher than possible for an app service) or if I want to have the control of the OS for other tasks, update status etc. Also interesting, if I want to have high-AV system with a load-balancer, memory-optimized (or CPU optimized) flexible machines.