* Does WordPress use Apache Web Servers?
* Either use AppServices (PaaS) or ScaleSets + LoadBalancer for scalability
* Kubernetes (AKS specifically) was considered, but discarded afterwards due to lack of experience with it and to finish the assignment quicker
* Azure MySQL instances with failover groups; PaaS
* Deployment of new applications should be easy enough, it is just a matter of adding a new AppServices and creating a new pipeline for it. Infrastructure deployment is automated with ARM templates + PowerShell scripts; Pipelines can be based of .yml templates from existing pipelines.
* Network Security Group to act as a “soft” firewall; can restrict network access;
* Virtual Network should be divided into different subnets (one for each Wordpress Application) so different NSG rules can be applied to each one of them
* Azure Key Vault is being used to store database connection strings
* Release pipeline will manage to fetch the database connection string of the correct environment and render its value to the application’s .config file. This can be done using powershell scripts.
* ARM templates for all resources; PowerShell scripts to deploy the said resources using the templates
* Three environments: Development - QA - Production. Could have a Staging environment but see no need for it at the moment
* One resource group per application (eg: WpApp1Dev - WpApp1QA - WpApp1Production)
* Database will be hosted in a shared resource group which all applications can access
* Final infrastructure and CI/Cd designs looks simple but it gets the job done. Simplicity is good.
* I am awful with PowerPoint presentation slides; will stick to text documents for as long as I can

Results:

* Applications can scale at will as long as one set up the right parameters on AppServices
* No need for infrastructure management
* Flexibility due to the nature of Cloud environments
* Can control which application has to scale out the most
* Can monitor applications with AppInsights and LogAnalytics (now part of Azure Monitor services)
* Reliability on cloud services backed up by SLAs given by the cloud provider
* Ease of deployment of new infrastructure for future applications; can be done within minutes after running scripts, and can even be automated using pipelines
* New applications can be working within minutes of first deployment