



ARM Templates

Dorian Vallecillo Calderon
App Service Senior Support Engineer Dev-OSS/Perf-Config

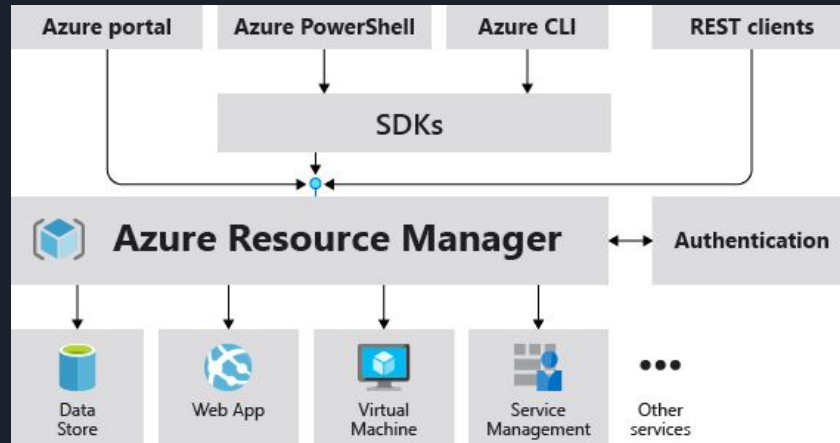
Have you ever wonder how deployments of services and infrastructure is made within Azure Cloud?



ARM

- Azure Resource Manager
- Deployment of Infrastructure
- Developing ARM's Templates

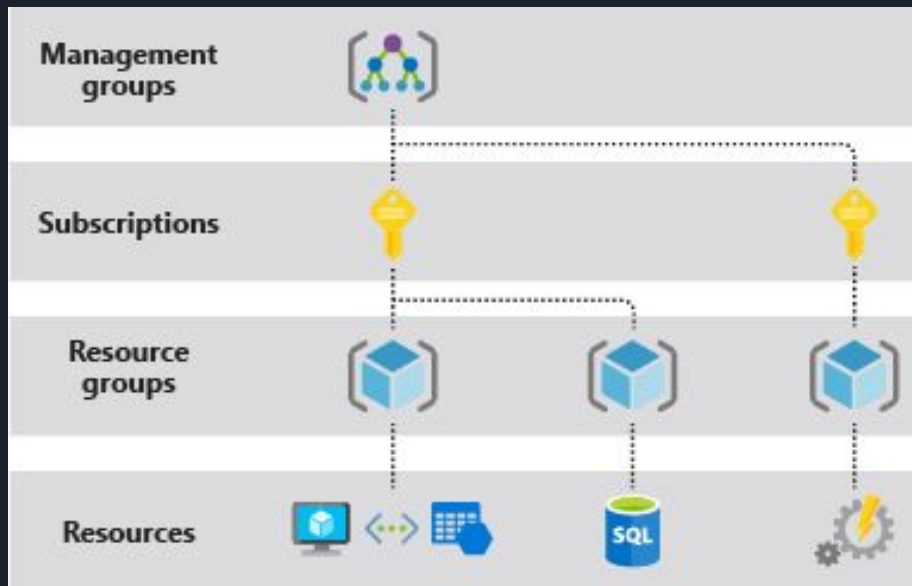
¿How does Azure Resource Manager works?



What benefits do I get of using ARM Templates?

- Manage your infrastructure through declarative templates rather than scripts.
- Deploy, manage, and monitor all the resources for your solution as a group, rather than handling these resources individually.
- Redeploy your solution throughout the development lifecycle and have confidence your resources are deployed in a consistent state.
- Define the dependencies between resources so they're deployed in the correct order.
- Apply access control to all services because Azure role-based access control (Azure RBAC) is natively integrated into the management platform.
- Apply tags to resources to logically organize all the resources in your subscription.
- Clarify your organization's billing by viewing costs for a group of resources sharing the same tag.

Scope of the ARM



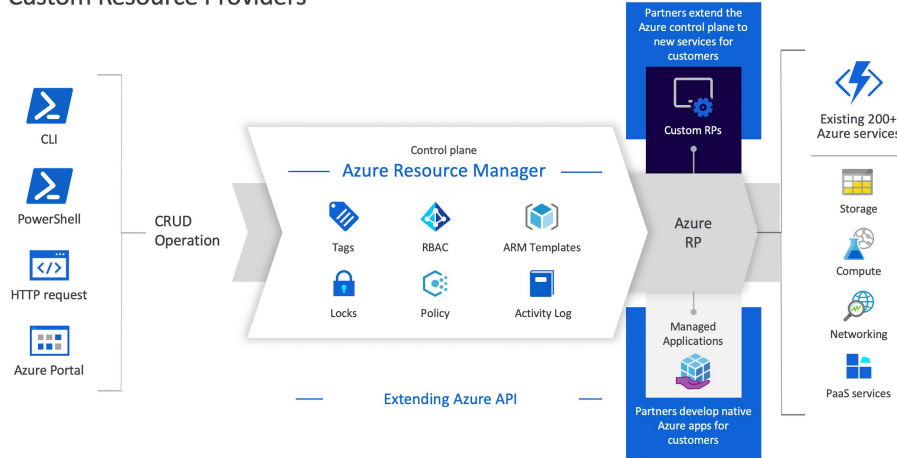


What are the components of an ARM Template

- `$schema` = API used to define resources
- `contentVersion` = Versioning control variable
- `parameters` = Input Parameters
- `functions` = customized functions
- `variables` = re-usage of parameters or values
- `resources` = Resource Provider
- `outputs` = customized outputs

What is a resource provider?

Custom Resource Providers



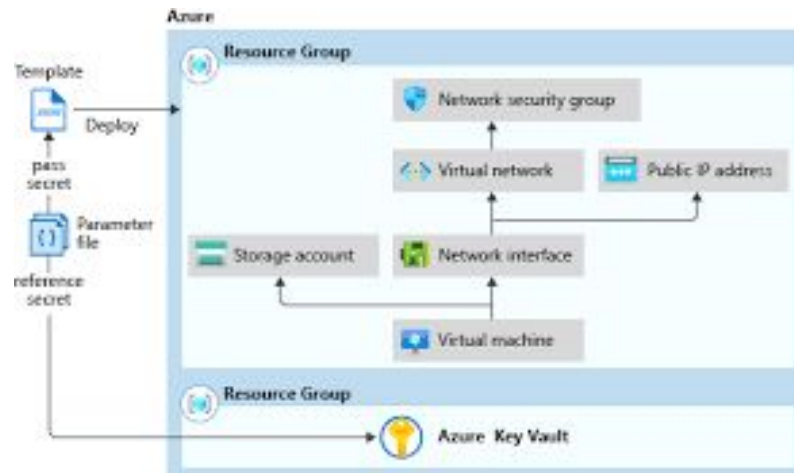
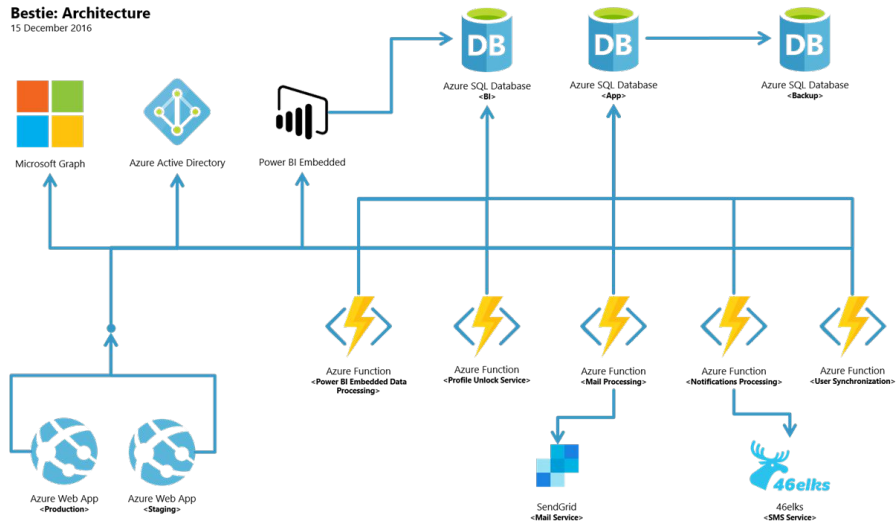
Clean ARM Template

```
{  
  
    "$schema":  
    "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",  
  
    "contentVersion": "1.0.0.0",  
  
    "parameters": {},  
  
    "functions": [],  
  
    "variables": {},  
  
    "resources": [],  
  
    "outputs": {}  
}
```




Bestie: Architecture

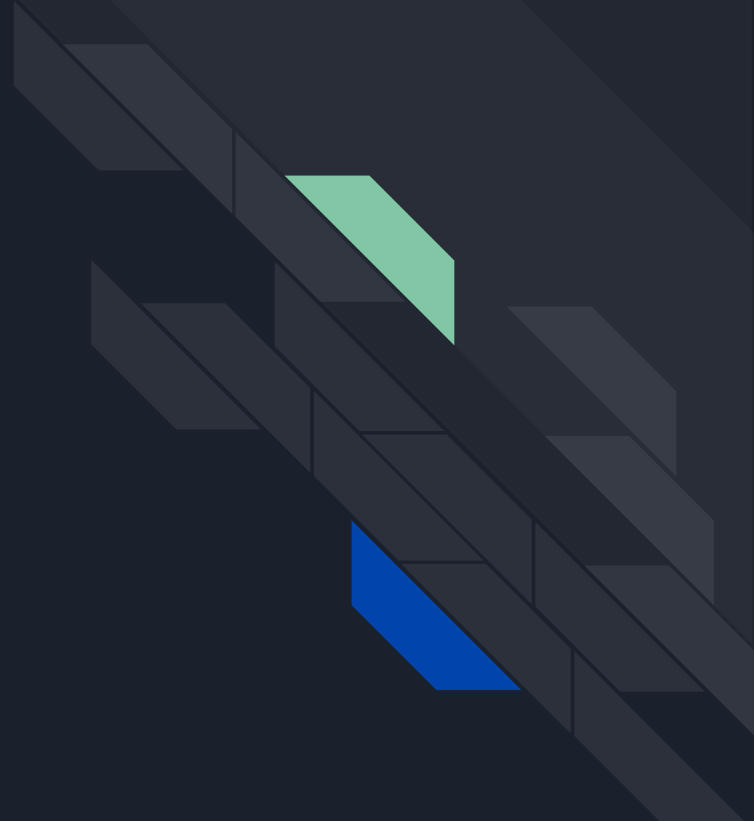
15 December 2016



Let's go to VS Code and
let's get started with
Coding Infrastructure.

Repository:

<https://github.com/dorianivc/ARM-templates-training-for-WebApps>





VS Code

- ARM Introductions:
 - App Service Plan
 - App Service
- ARM Paramatrization
 - App Service Plan
 - App Service
 - Allowed & Default Values
- ARM Variables & Output
 - ARM variables
 - ARM outputs
- ARM parameters file
 - Let's create it on VSCode

**Robots don't make
mistakes -- but data
DOES!**

Have a nice day