

AZURE POLICY

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12thDec2019

About me

Developer | Azure Cloud Solution architect | Blogger | Speaker | Vlogger | Microsoft Certified (MCSE) | Docker-Certified | Azure- Expert | Life-Long learner.

Passionate about Azure, .NET and container technologies.

Find me here.. <https://rupesh.blog/>

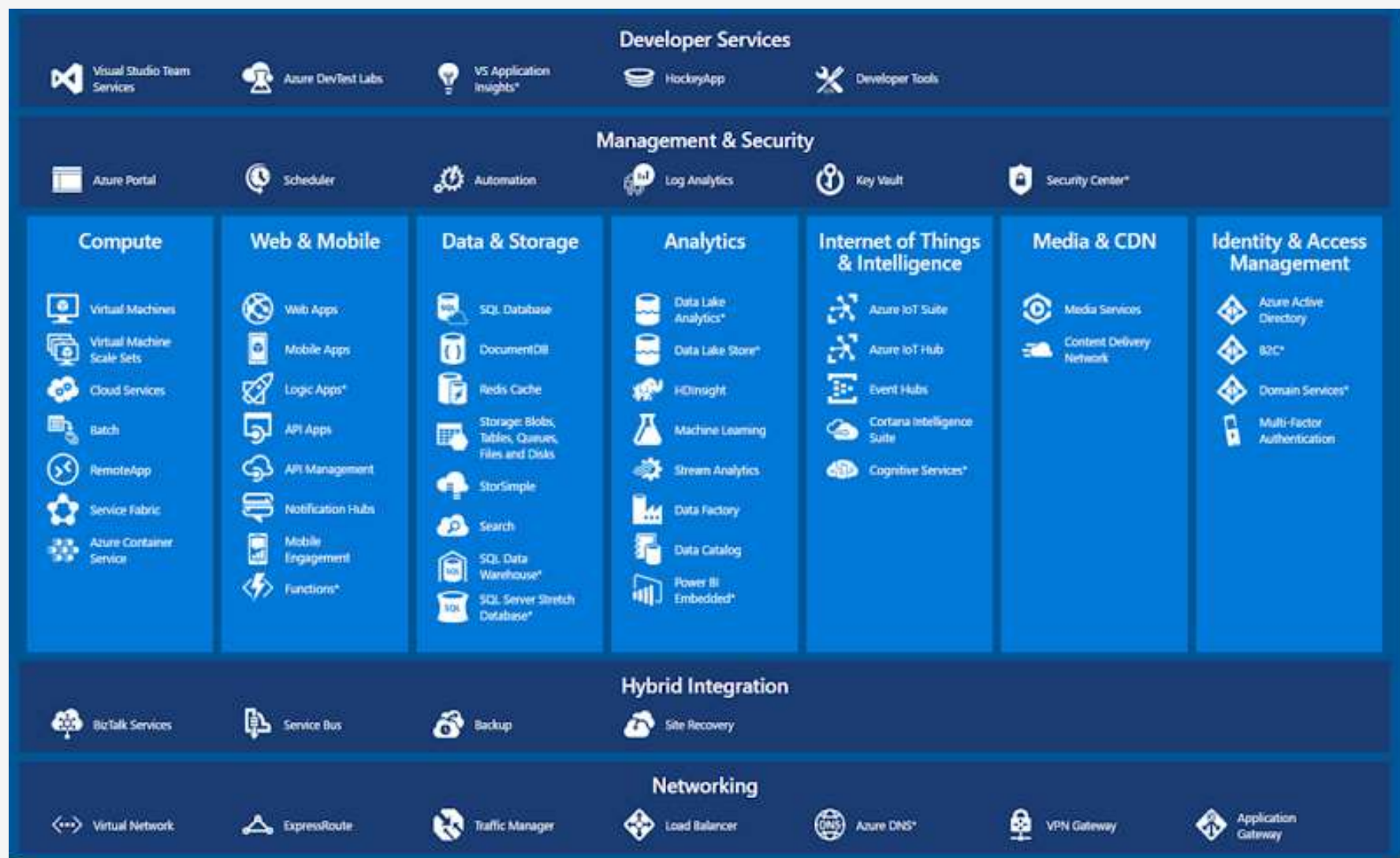
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54 Regions



More than 100 Azure Services

For each resource options are

- Many regions
- Many configurations
- Cost varies with each configuration
 - From free till few thousand euros



At SnelStart

- More than 5 millions lines of code
 - Close to 100k Azure resources
 - All resources are deployed thru ARM templated
 - Most of the resources are deployed multiple times
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Challenges



HOW TO KEEP IT
SAFE?



HOW TO ENFORCE
LAW OF THE LAND?



HOW TO ENFORCE
COMPLIANCE
POLICIES?



HOW TO ENFORCE
UNEXPECTED
COSTS?

Azure policy



Azure service (Free)



Define rules



Enforce policies



Get Compliance report



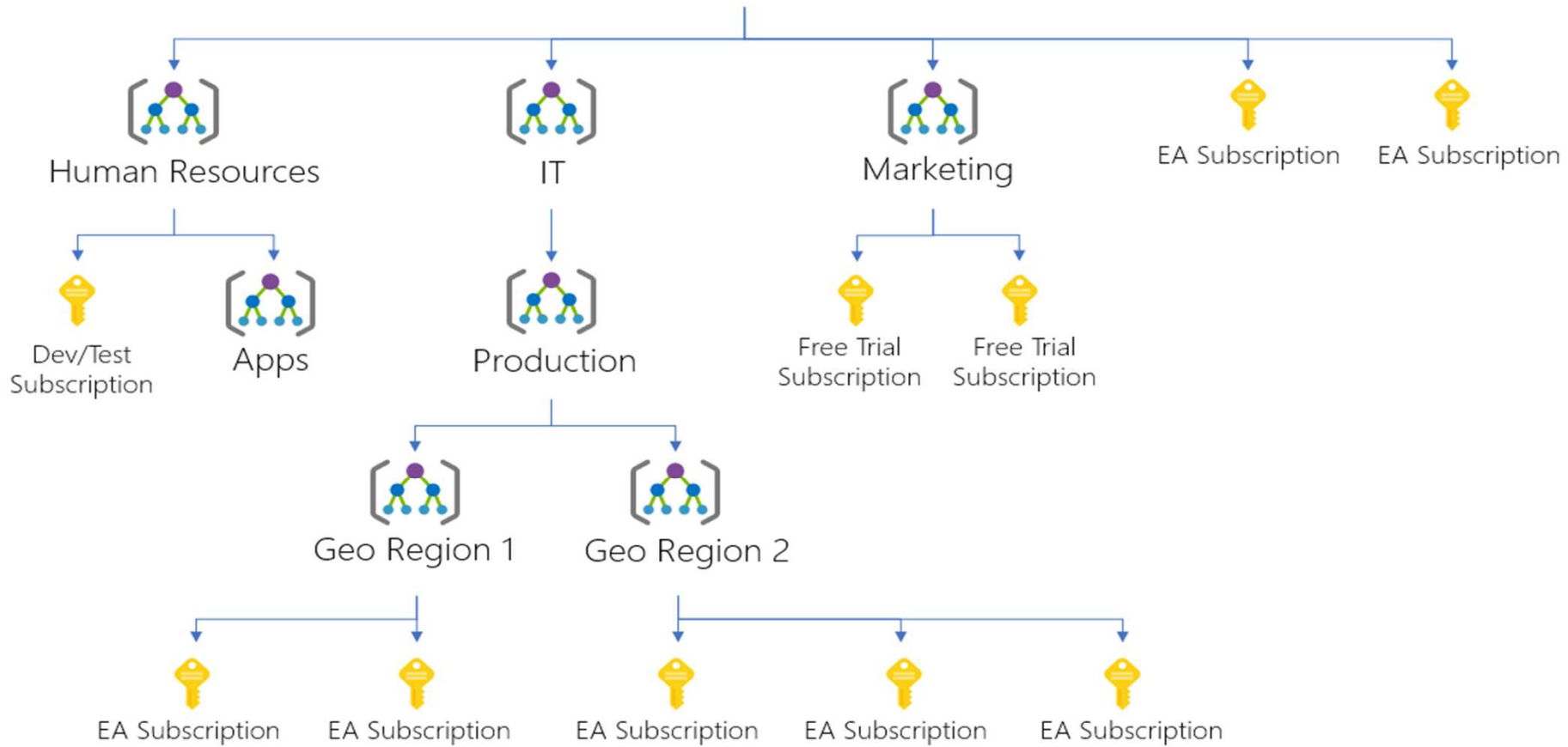
Save Cost



Stay Compliant



Root Management Group




Effects

- Append
- AuditIfNotExists
- Deny
- DeployIfNotExists
- EnforceRegoPolicy(Preview)
- EnforceOPAConstraint(Preview)

**Since it is a Free resource, effects takes time to realize
Which is not good for Live Demo

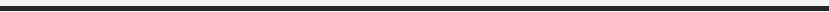
Use Cases

- How to save unexpected cost
 - Apply Security Policy and the law of land
 - How to get compliance report
 - How to be complaint (Enforce)
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- Cost varies with different Tier
- Resources can be of Basic or Standard tier in Dev & Test
- It is quite possible to choose wrong tier (or configuration)

How to save unexpected cost

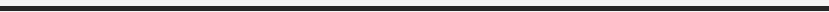
DEMO



- Almost all property in configuration has enable/disable options
- Default settings for some properties are DISABLED
- So they are deployed with less secure configurations (if not explicitly set)

Apply Security & compliance policies

DEMO



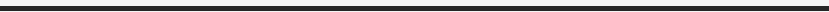
- Deny is used to prevent a resource request that doesn't match defined standards through a policy definition and fails the request.

Apply Security & compliance policies

Get Compliance Report



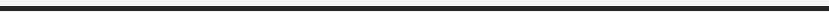
DEMO



- Deploys the resource (thru ARM template) if there are no related resources

Be Compliant

DEMO



Thanks

