## Nicole Welch cloud first

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## Azure Design Considerations–Enrollments, Subscriptions, and Resource Groups

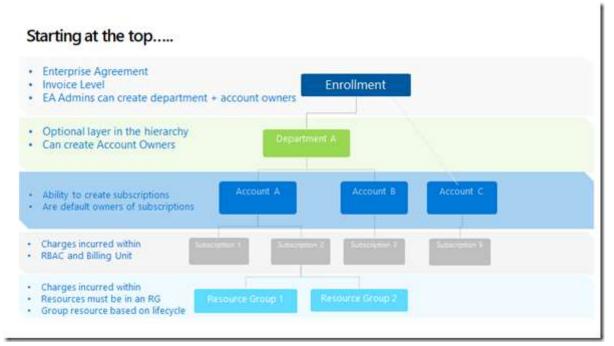
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When I first meet with new Azure EA customers, one of their first topics is "how do I set this up?" Azure is very flexible, but this means you have design decisions to make:

- how many enrollments do I need?
- should I use departments?
- should I separate teams using subscriptions or resource groups?
- where do I apply RBAC (define access)?

While there are wrong answers, there is no one right answer. Each organization will need to evaluate their needs, organizational structure, and use case(s) to see what works best for them now. And if things change in the future, this design should change too.

Let's break down the different control points.



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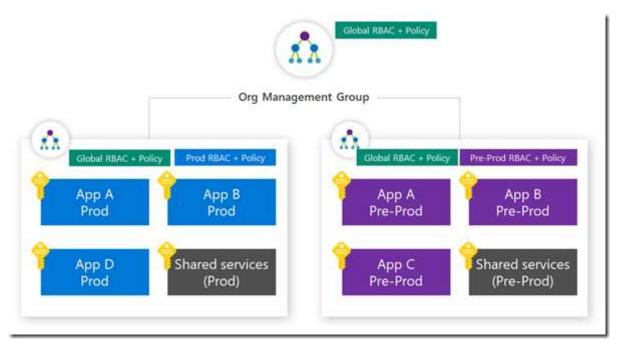
First off, consider if multiple enrollments are needed or if multiple subscriptions within a single enrollment will suffice.

	Subscriptions	Enrollments
Separate Invoice		X
Able to view charges at this level	X	X
Can use unique AAD Tenant	X	X
Can view charges in EA Portal	X	X
Can share an ExpressRoute	X	X
Simple to Administer	X	

Then consider how to further separate resources leveraging subscriptions and resource groups:

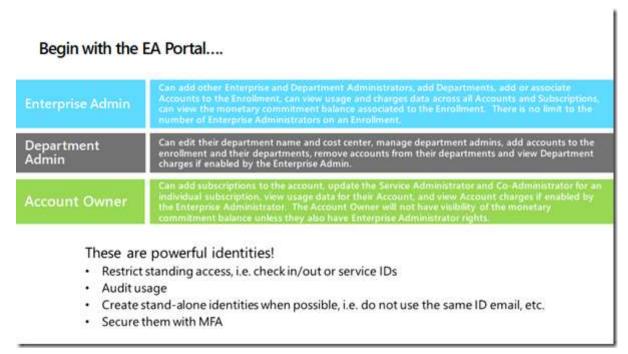
	Resource Groups	Subscriptions
RBAC supported	X	X
Easy to view Billing	X (in Azure portal only)	X (in EA and Azure portal)
Resource can be shared across	X (natively)	Requires additional configuration and only some resources are supported
Azure Policy supported	Х	X
Best for Sandbox		X
Best for restricting access in a common environment (i.e. PROD)	Х	
Simpler to Administer	Х	Multiple subscriptions create administrative overhead
Can share a single ExpressRoute	X	X

Keep in mind subscriptions can be grouped and administered in a hierarchy using Azure Management Groups (<a href="https://docs.microsoft.com/en-us/azure/governance/management-groups/">https://docs.microsoft.com/en-us/azure/governance/management-groups/</a>(<a href="https://docs.microsoft.com/en-us/azure/governance/management-groups/">https://docs.microsoft.com/en-us/azure/governance/management-groups/</a>)). Management groups allow you to set Azure Policy and RBAC centrally for governance with low overhead support.



(https://nicolewelchblog.files.wordpress.com/2019/05/image-1.png)

Finally, in the EA portal itself make sure you are thoughtful in how roles are assigned and controlled.:



(https://nicolewelchblog.files.wordpress.com/2019/05/image-2.png)

That's my two cents on how to get started, but keep in mind this is a journey. I recommend lots of whiteboard sessions to play with the different options and then test them out again real-world use cases. The best designs appropriately limit access but are easy to implement and maintain.

Posted by Nicole Welch in Azure

Tagged: Azure, design, ea, enrollment, subscription

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