TECHMENTOR
IN-DEPTH TRAINING FOR IT PROS

GEEK OF THRONES

T15 – Making the Most Out of the Azure Labs

Mike Nelson

Level: Beginner - Intermediate

Change is ~~Coming~~ HERE. Are You Ready?

Mike Nelson

Technical Marketing Engineer @ Rubrik

@nelmedia
mike@geektweakers.com

Microsoft MVP - CDM
Microsoft Azure Advisor
Citrix CTP
VMware vExpert

Contents

> What it is and what it is not

> Key features

> Integrations

> Tips

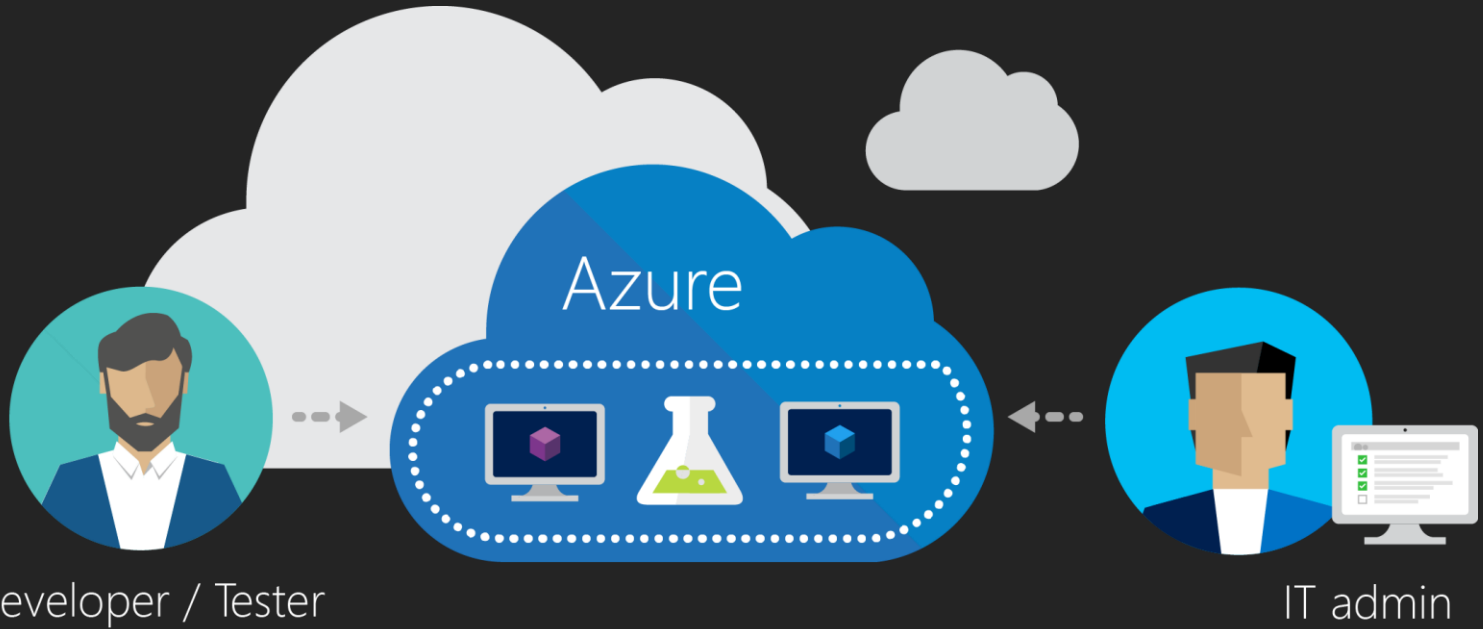
> Demos

PACKER
PACKERS

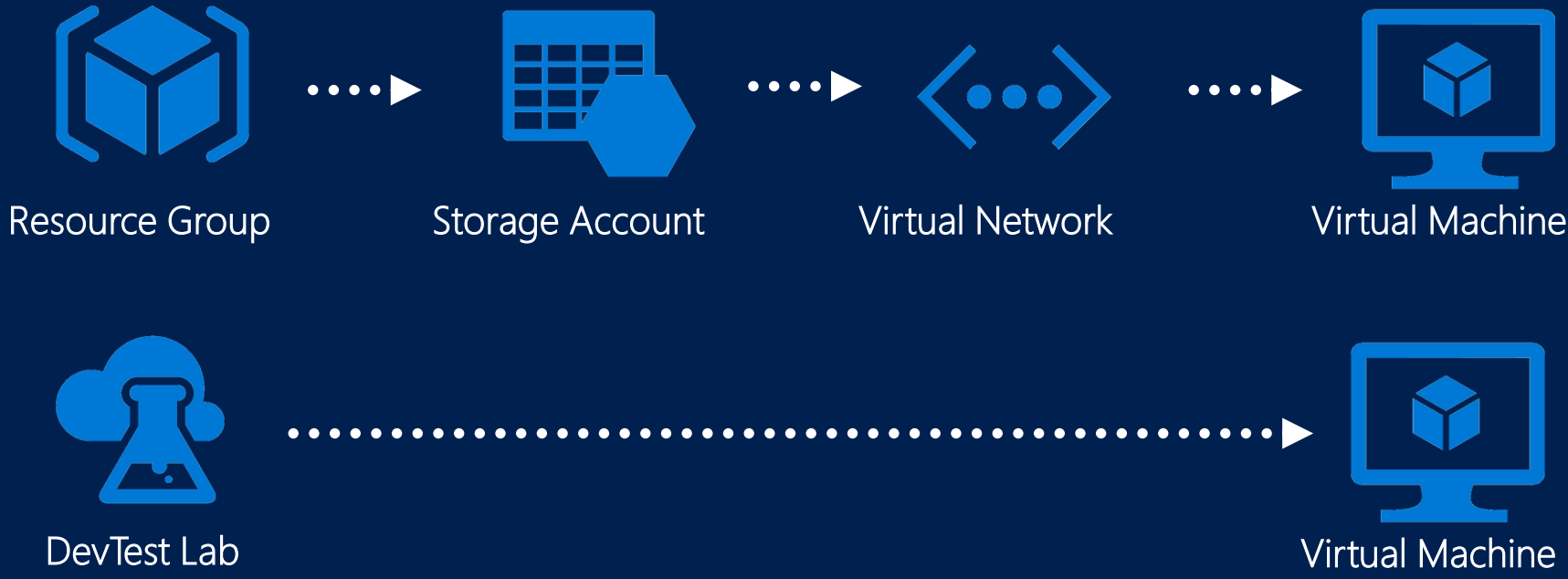
Azure DevTest Labs

Fast, easy, and lean dev-test environments in Azure.

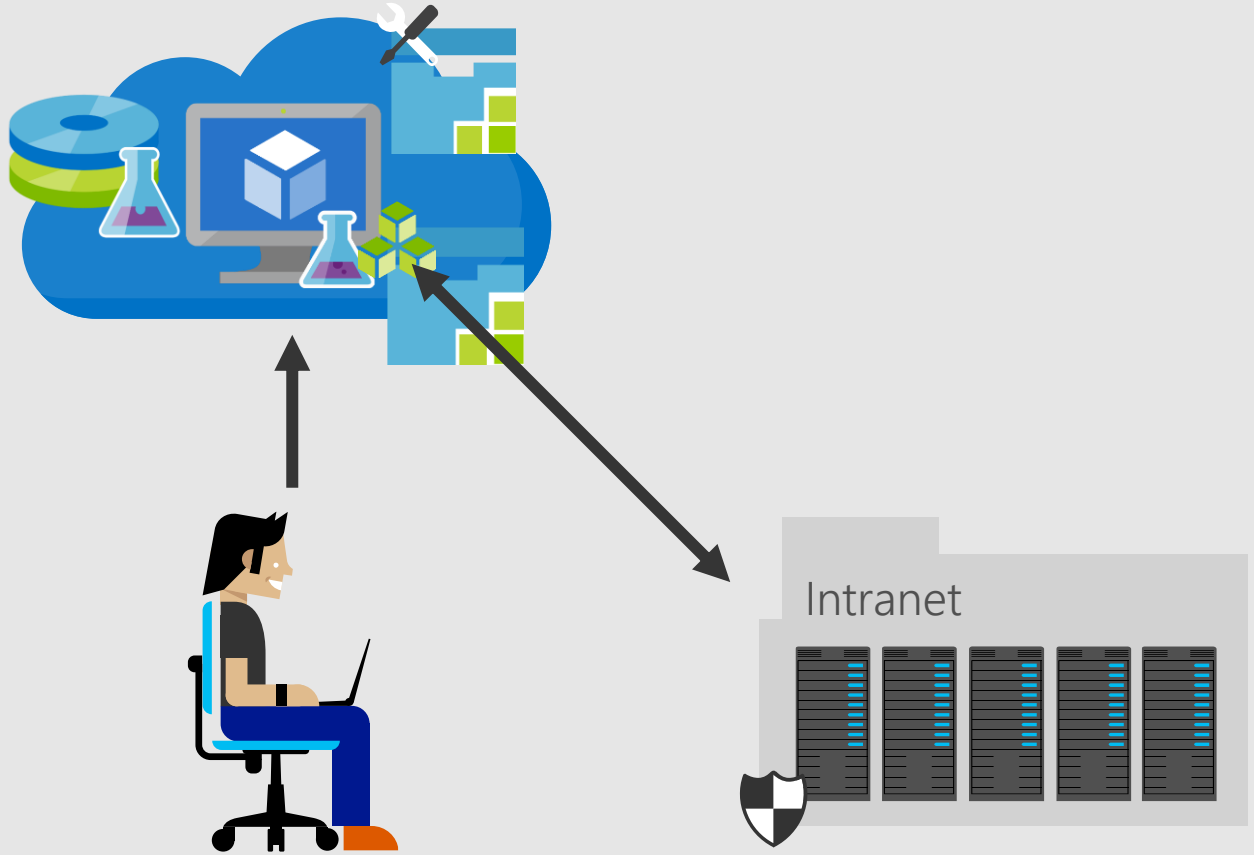
Specifically for your team. On demand.



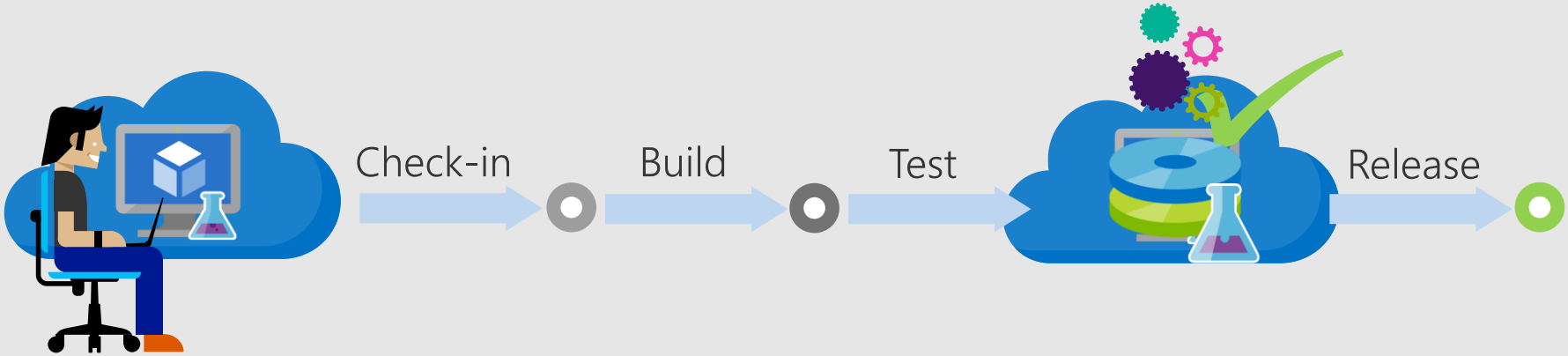
Regular VM vs DevTest VM



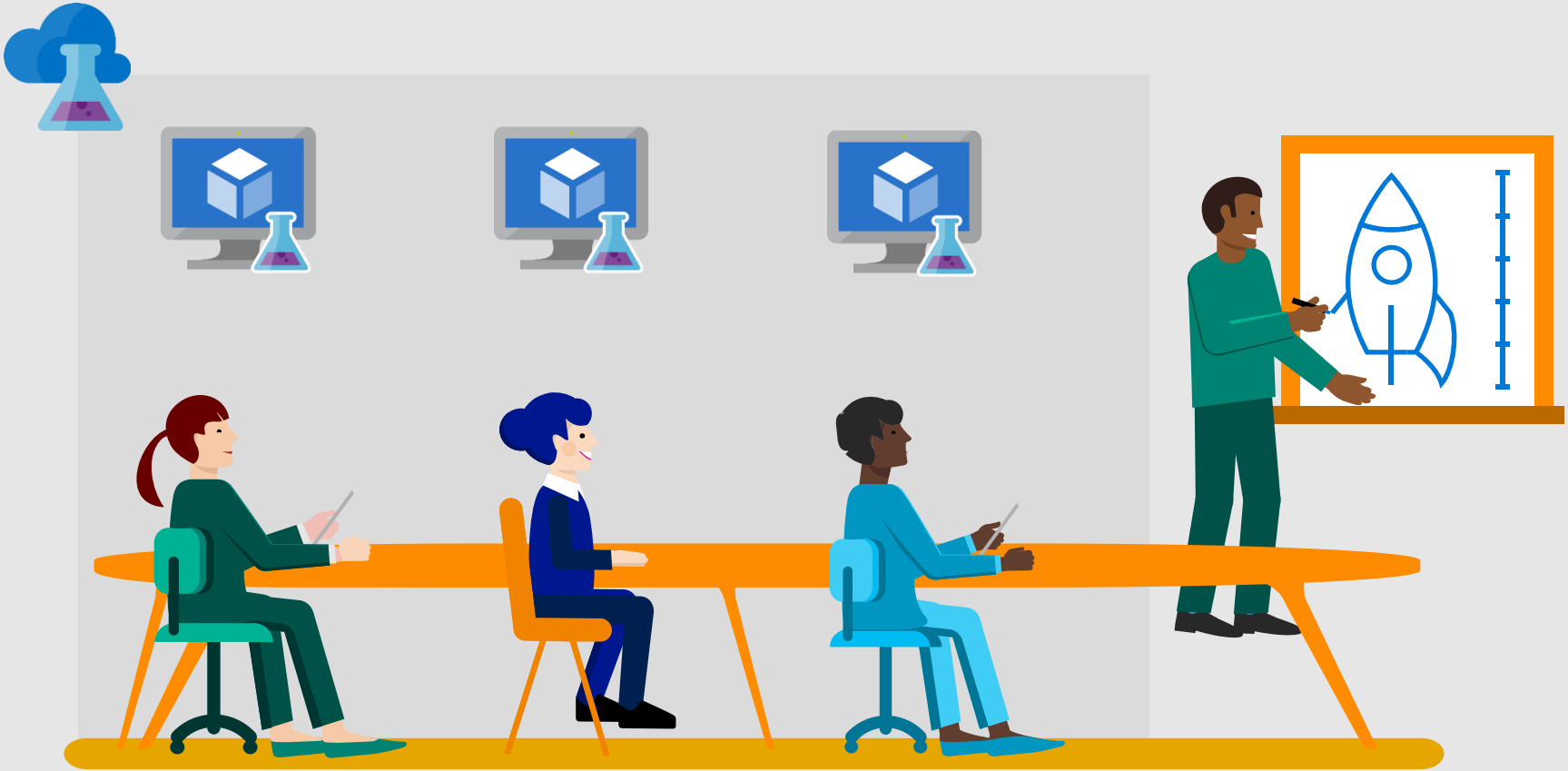
Developer Machines



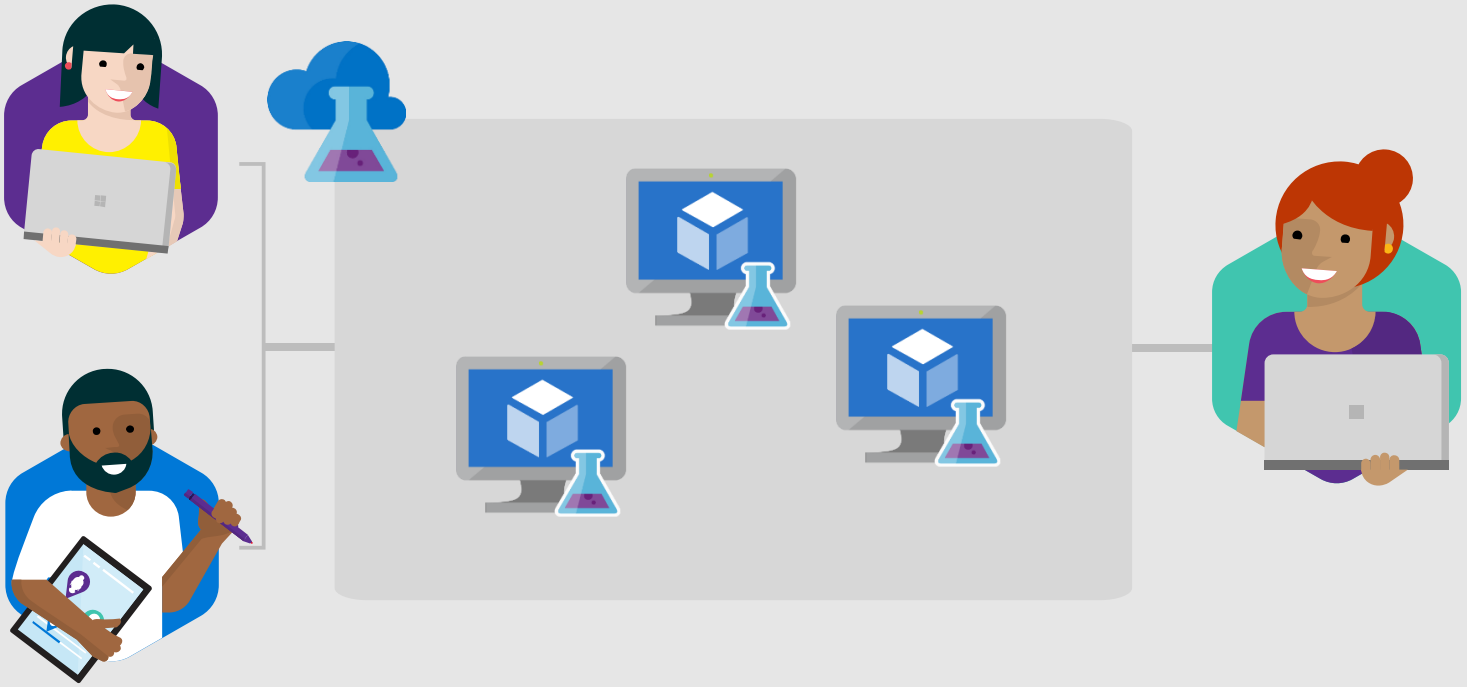
Test Environments



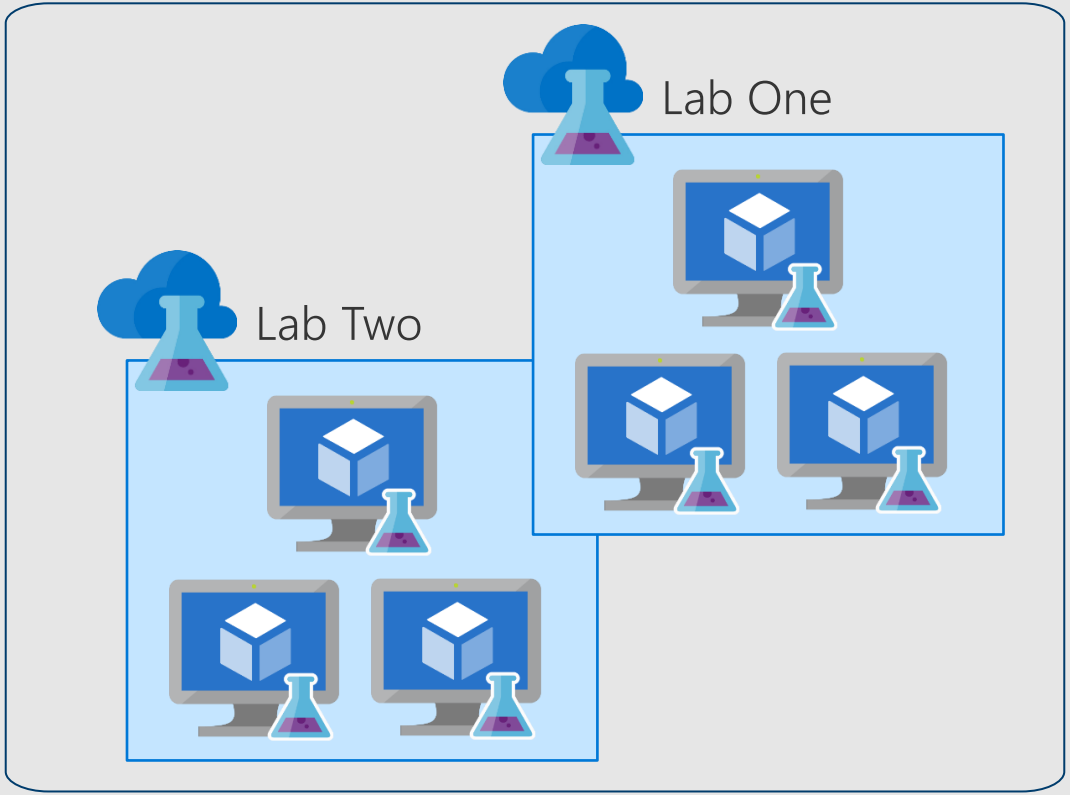
Training / Education

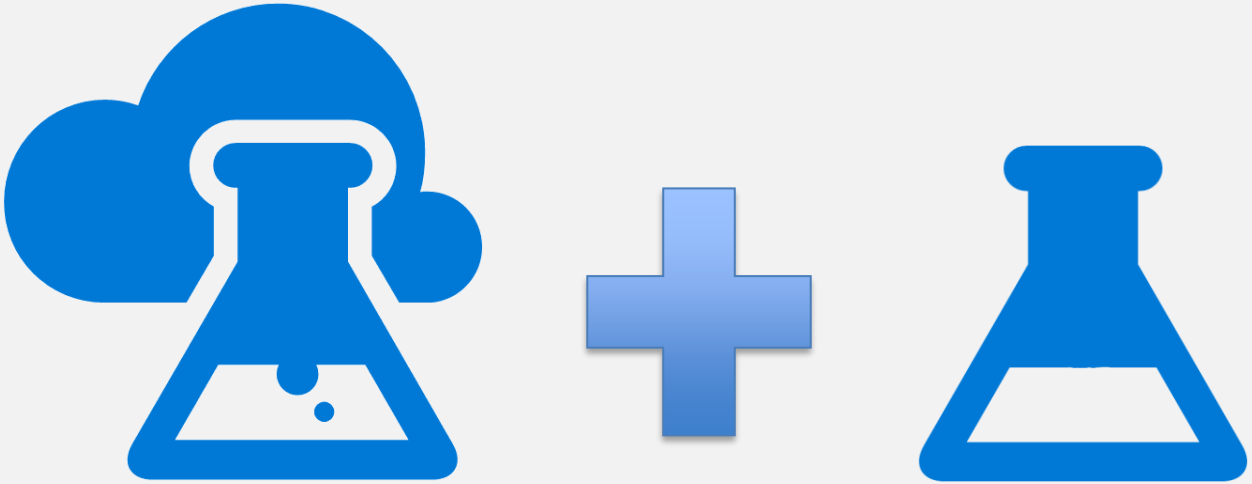


Trial / Hackathon / Demo



How it works currently

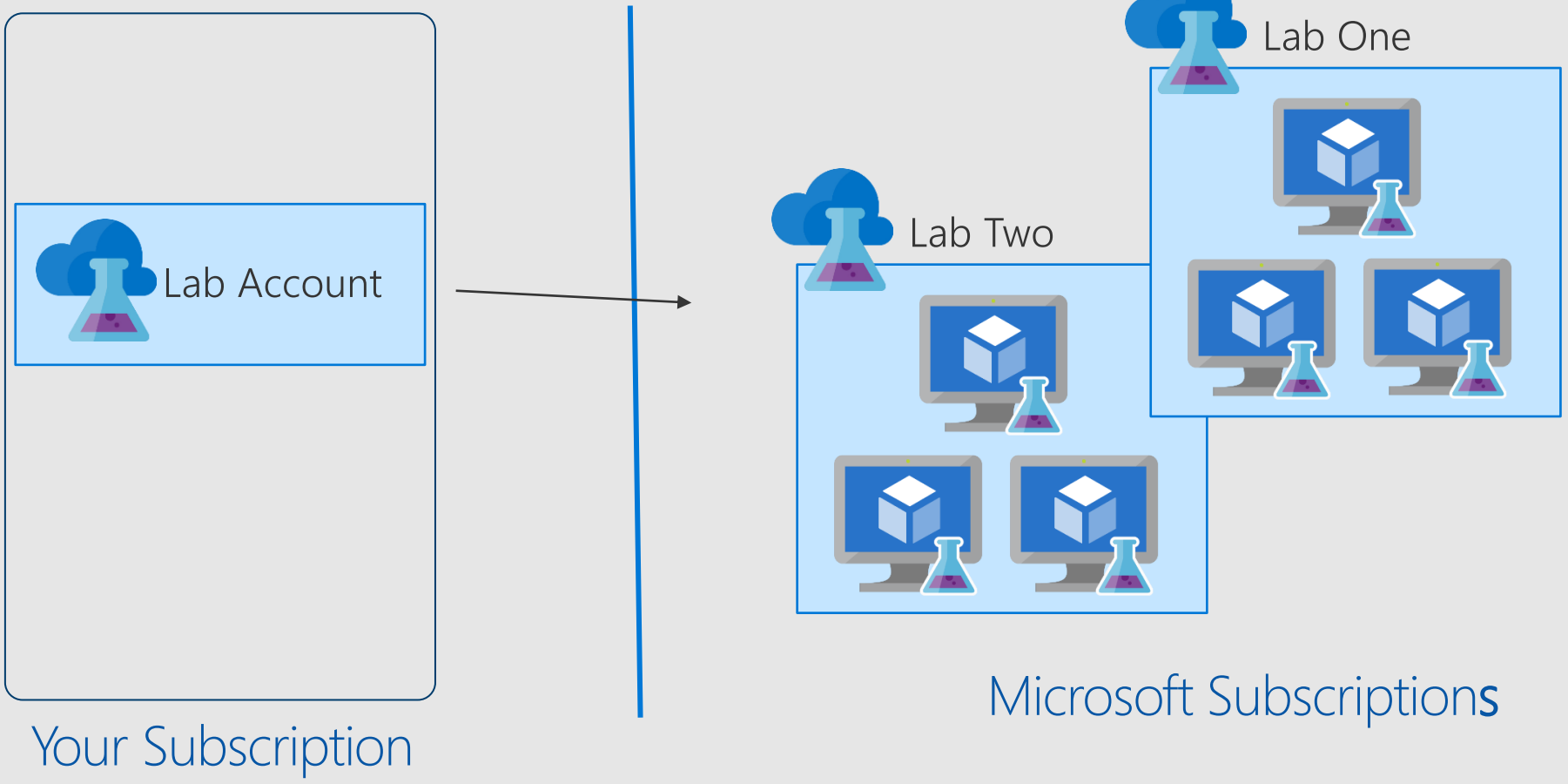




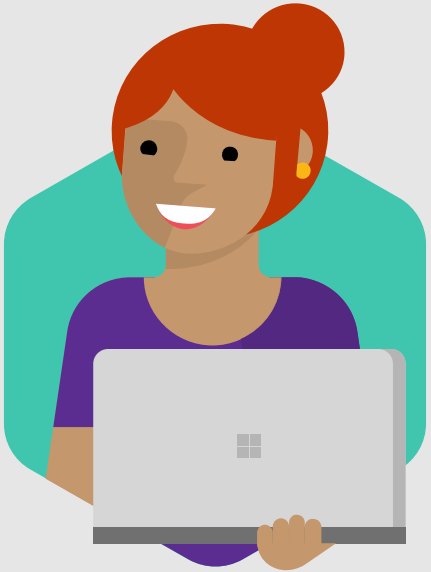
Dev/Test Labs

Azure Lab Services

Managed option (ALS)

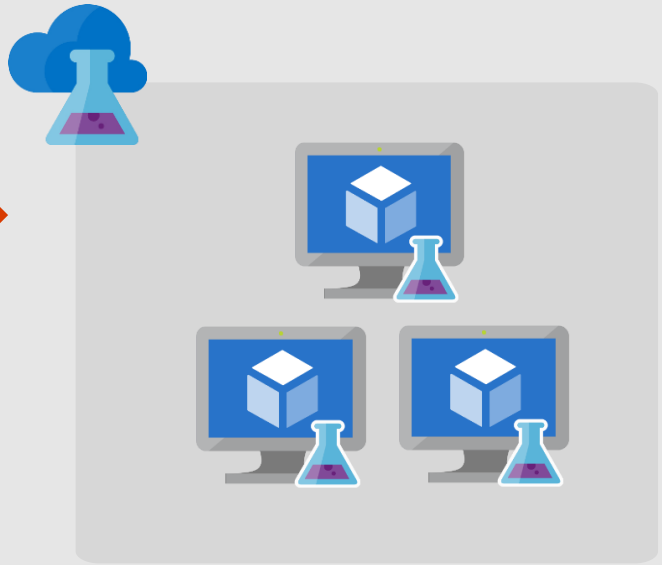


How it works



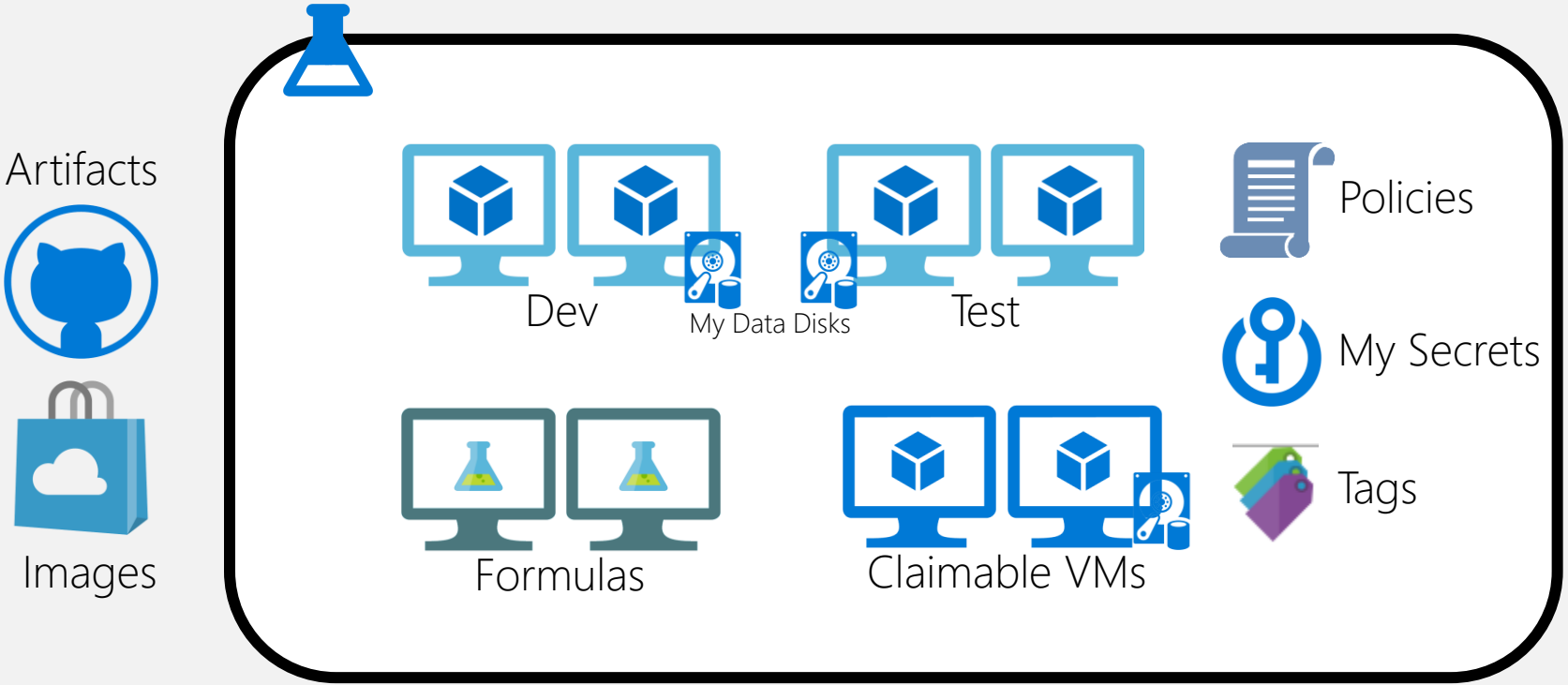
User

"Give me xxx VMs"



labs.azure.com

Azure Lab Services (D/T) - Components



Azure Lab Services – Lab Types

Managed Lab

- Classroom Labs
- Service managed infra and resiliency
- Requires Central Lab Account
- Not created in your sub
  - Created in internal MS subs
  - Auto-scaling
  - Usage tracked and billed to your sub
- RM deployment not available

Custom Lab

- Original Dev/Test labs
- You manage Infra and resiliency
- Created in your sub
- No sub auto-scaling
- RM deployments available

Demo's

Dev/Test Lab (DTL)

Managed Lab (ALS)

What's the Difference Between…

- Custom Images (My Disks/BYO) and Formulas?
- Artifacts and Formulas?
- My Secrets and Key Vault?
- Claimable VM and a VM?
- An Visual Studio Sub* using Labs and any other?

Permissions, Roles, and Scopes

RBAC

Permission – access to a specific action -> read access to VMs
Role – Set of permissions grouped together -> Owner role has all access
Scope – A level within the hierarchy of a resource -> RG, lab, or entire sub

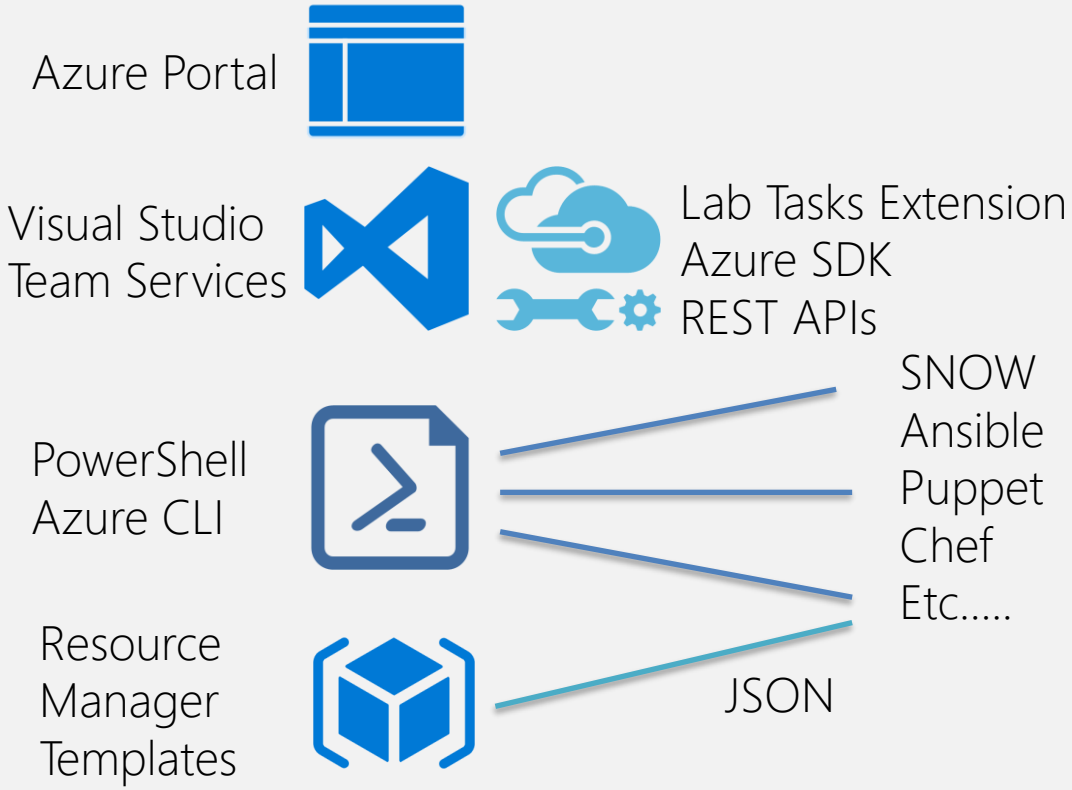
Roles within the Azure Labs Scope

Lab Owner – Access to all resources in lab
Lab User – Can view, but cannot modify
Custom – Grant access to specific Lab policies

Notes

A Subscription owner inherits role of Lab Owner
Lab Owners cannot see anything outside of their Labs
Permissions propagate downward

Integration, Management, and Automation



Tips

Subscription Limits – Know before you deploy & maintain control

Use the auto-start/shutdown and expiration features

Use OMS, Cloudyn, Analytics, or your favorite tool to watch the spend

Automate, automate, automate… and then automate again

Use direct links to labs

ALS – NEVER change a VMs IP address

ALS – 1 VM per lab, No cost control, no refined wizards (very, very young)

Use meaningful naming & use Tags

Don’t reinvent the wheel

More Demos
@nelmedia
mike@geektweakers.com