Azure 101:Kicking the Tires in Azure

WITHOUT BREAKING THE BANK 😉

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@teskemj

Summary

Where do I start?

What do I get with my free Azure account?

Azure 101

- Azure Assets
- Cost saving tips
- Azure Portal
- Azure PowerShell Module

Deploying a VM in Azure

- UI
- PowerShell

Q/A

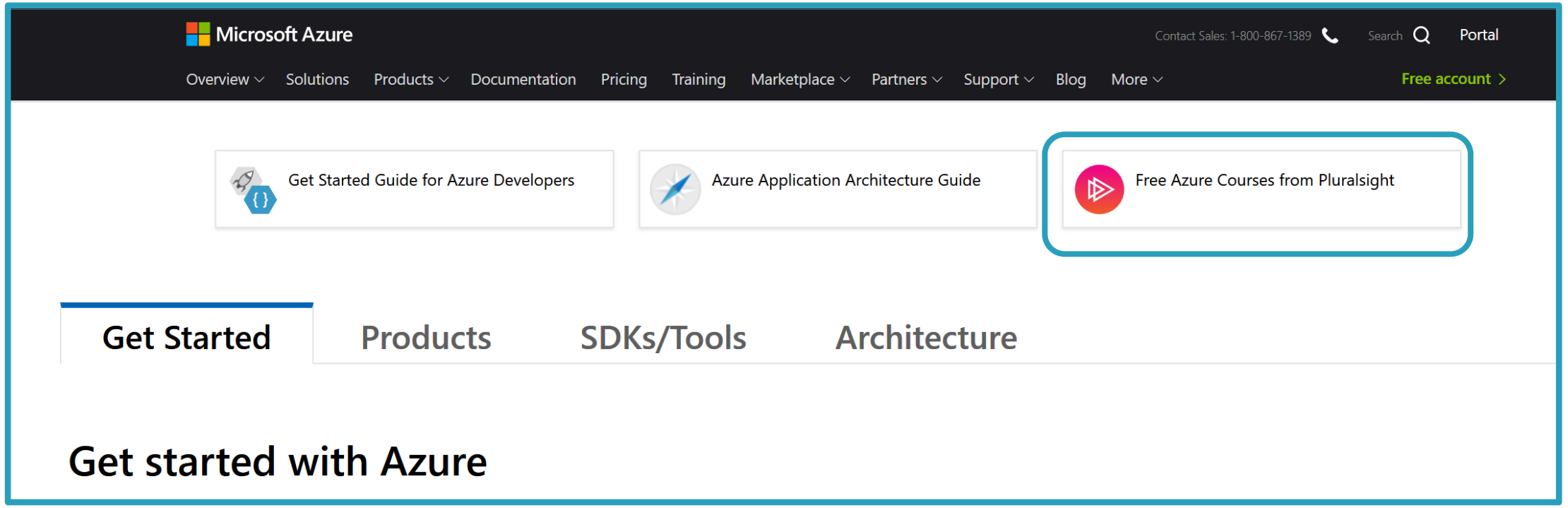
Where do I start?

Without losing my mind...*again.*

"Just cause you got the monkey off your back doesn't mean the circus has left town."

-George Carlin

Where do I start?



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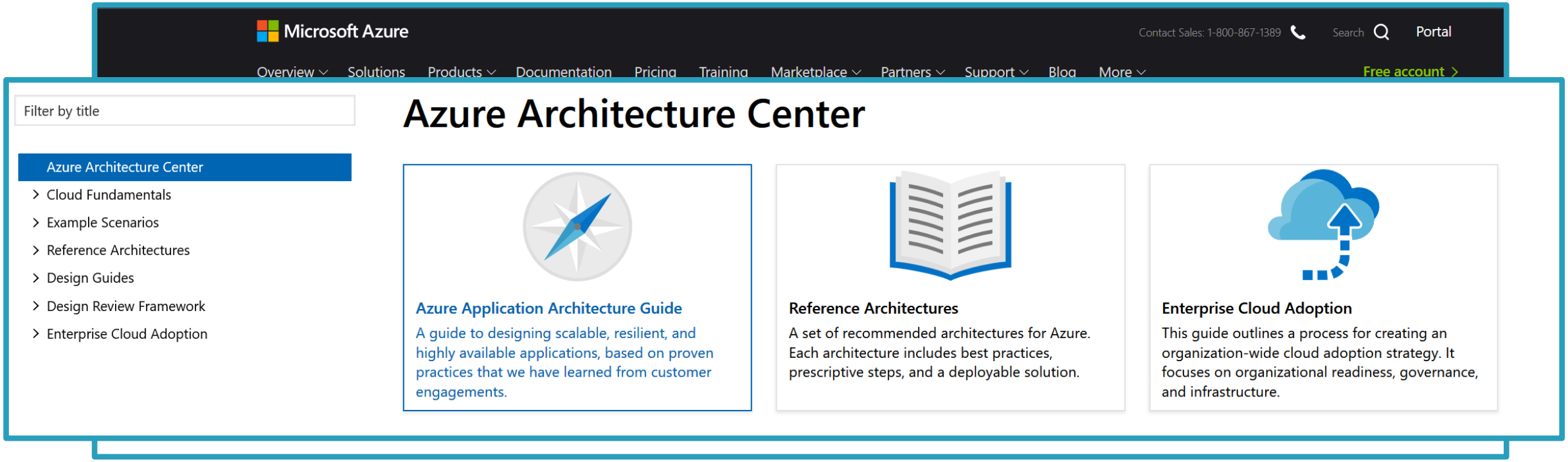
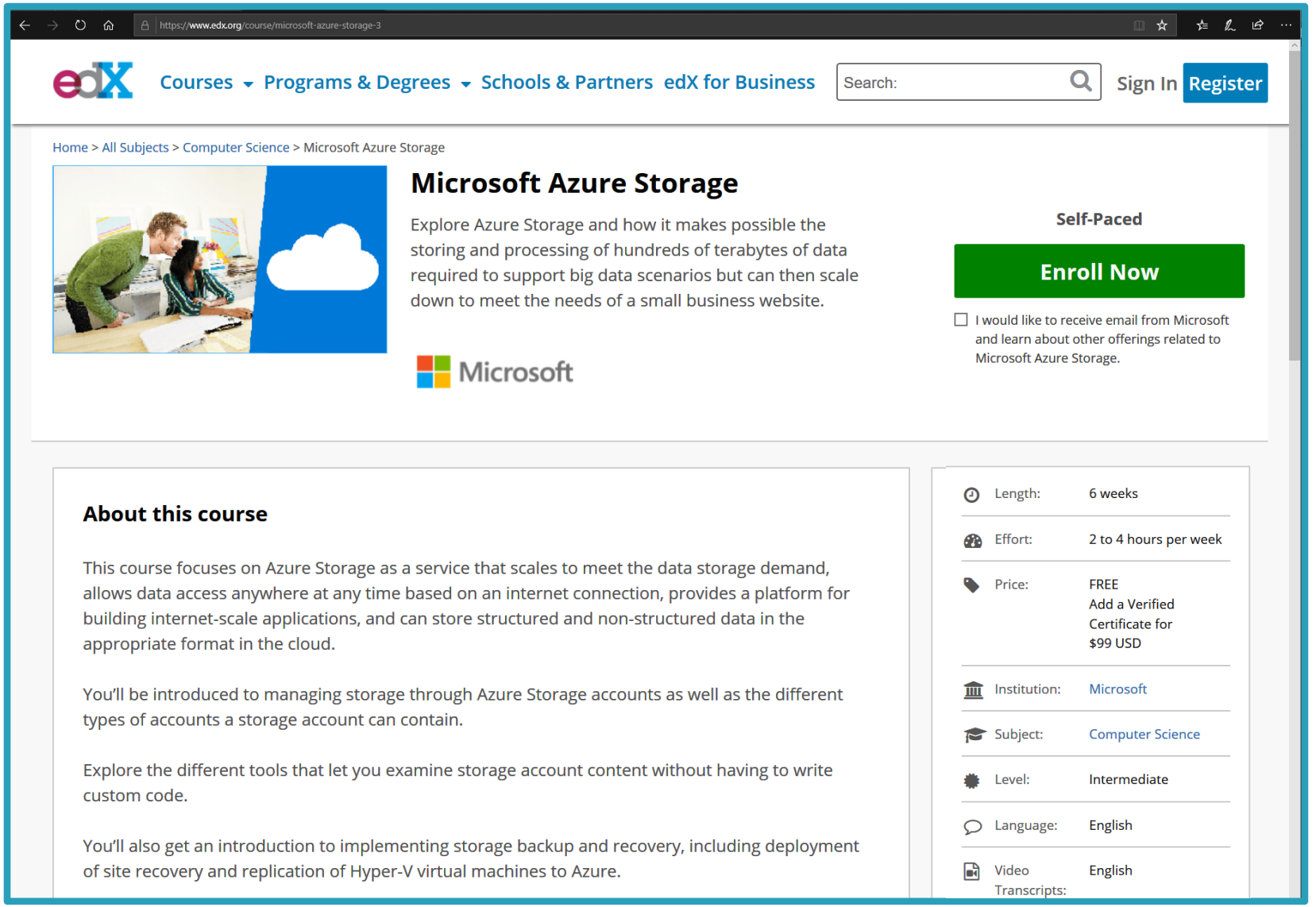


Demo

Azure Docs

Where do I start?



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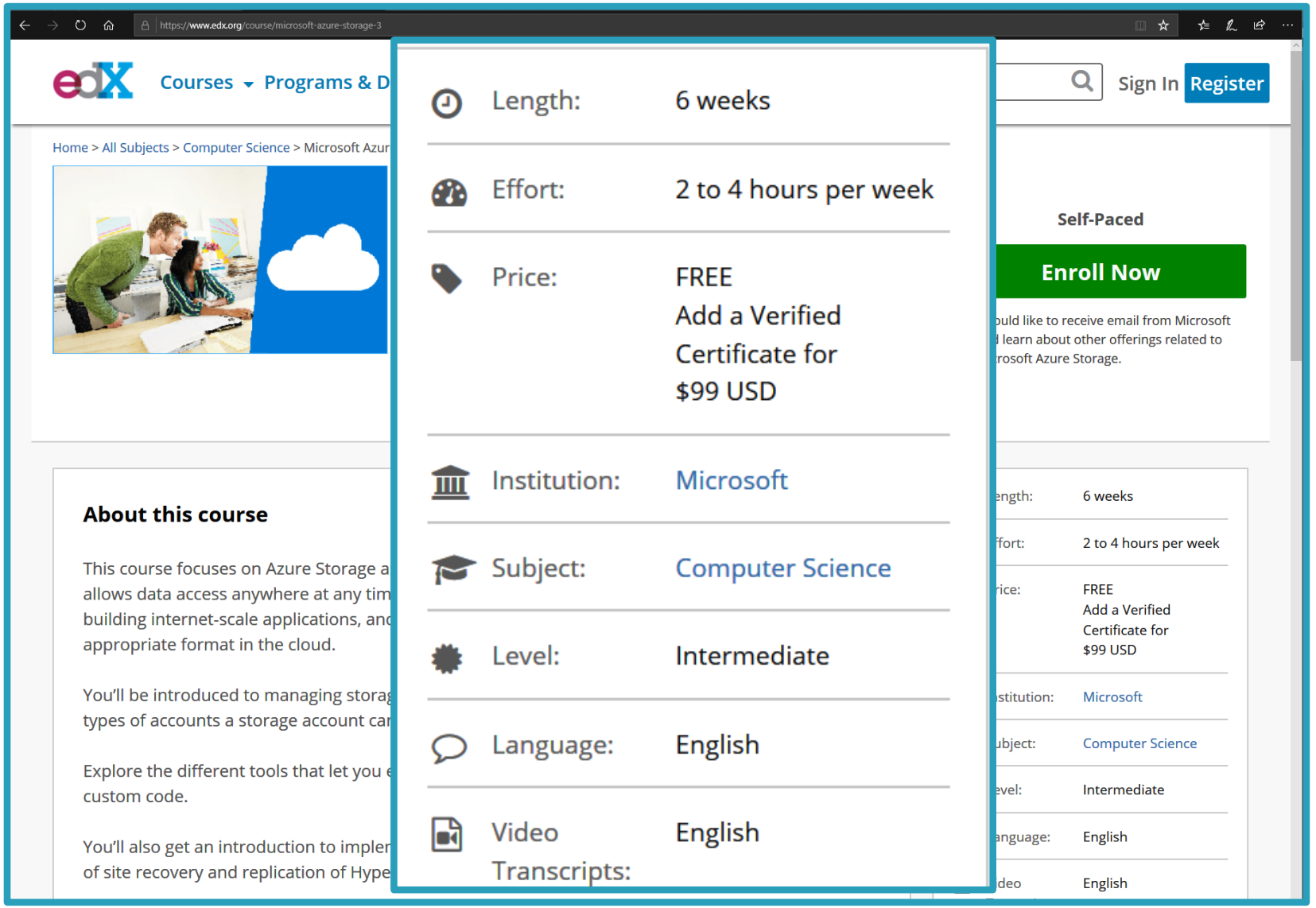

Where do

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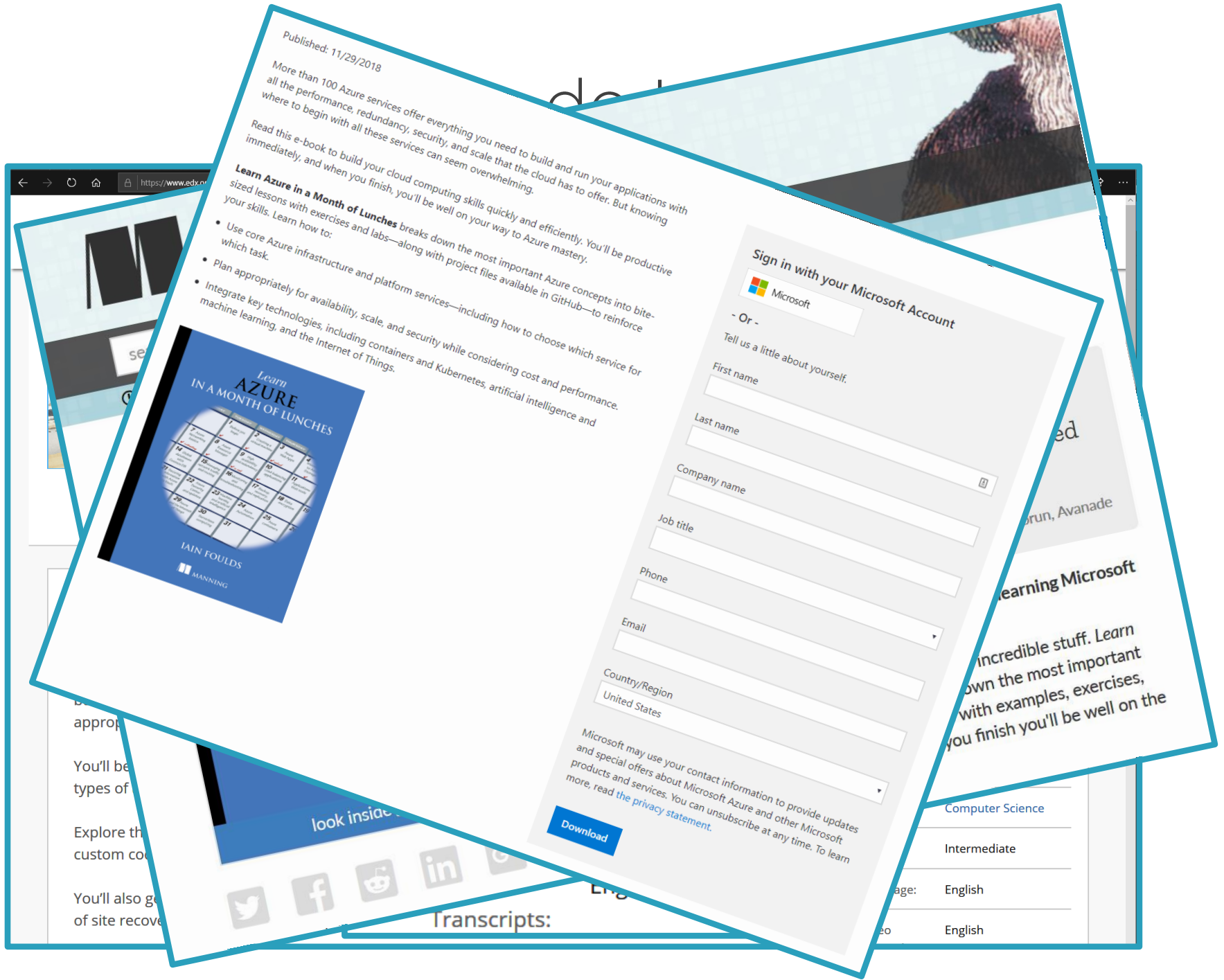
Published: 11/29/2018
More than 100 Azure services offer everything you need to build and run your applications with all the performance, redundancy, security, and scale that the cloud has to offer. But knowing where to begin with all these services can seem overwhelming.
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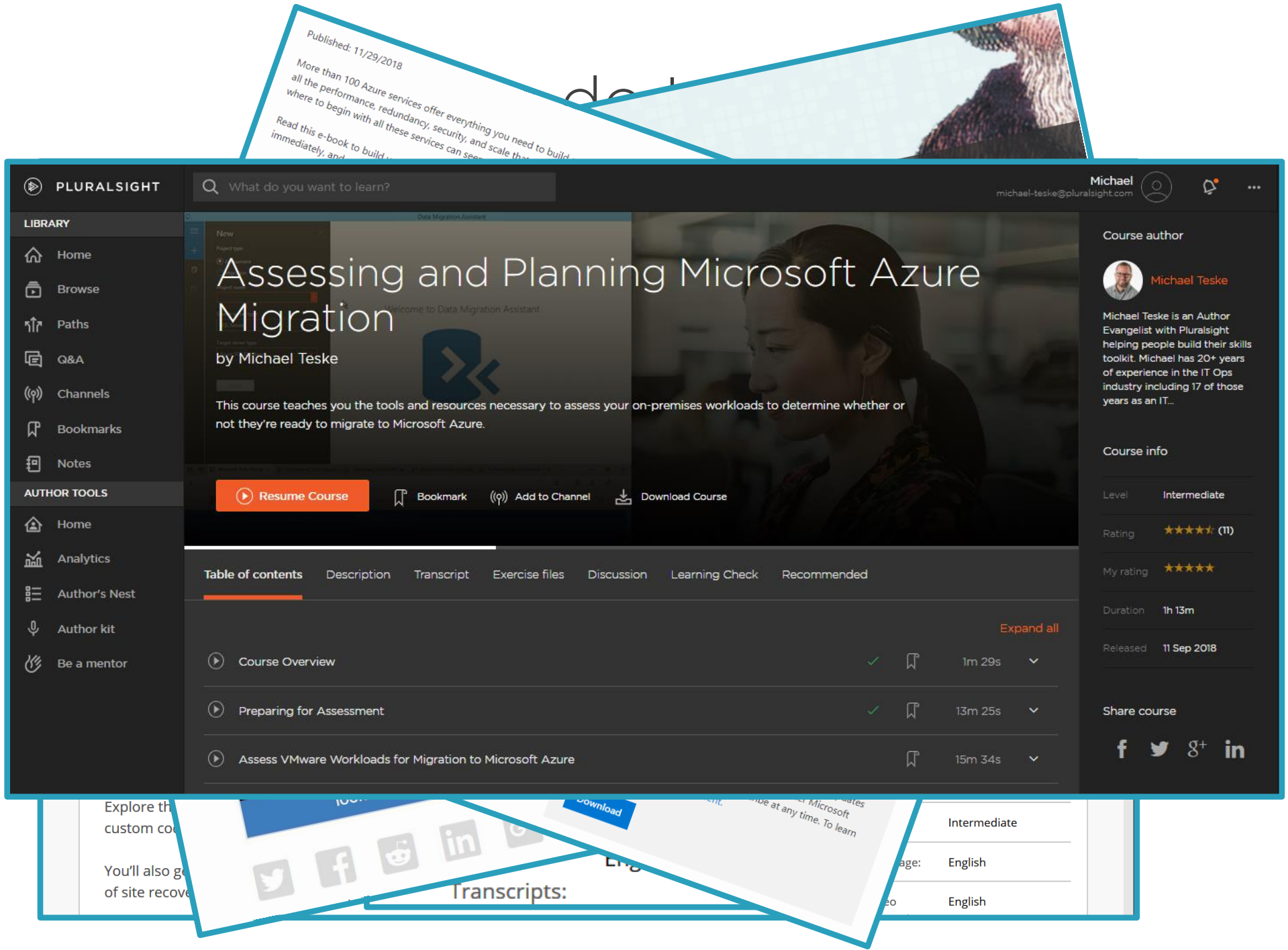
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Course author
Michael Teske
Michael Teske is an Author Evangelist with Pluralsight helping people build their skills toolkit. Michael has 20+ years of experience in the IT Ops industry including 17 of those years as an IT...
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What do I get with my Free Azure Account?

$200 credit for 30 days, Azure Pass, MSDN, Dreamspark, Bizspark

12 months (after the first 30 days)→ popular services (VMs,Storage,DBs, etc)

Always free→25+ free services (Active Directory, Azure DevOps, Automation, Virtual Networks, etc)

Beyond free? Azure service calculator.

Demo

Free Stuff

Azure 101

Common Azure Assets/Tools

Resource Groups

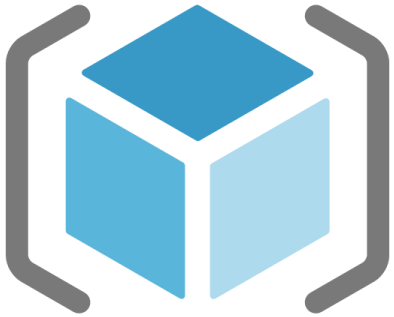
Storage

Virtual Networks

Network Security Groups

Azure VMs

Azure CLI/PowerShell Module



Resource groups~Grouping of resources ☺

Resources do not have to reside in the same region as RG

The metadata for those resources are stored in the region where the RG is created

Can interact with resources in other RGs

Deleting the RG deletes the resources within the RG*

Secure. All storage is encrypted.

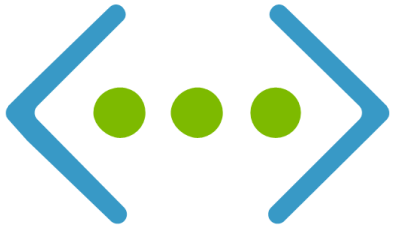
Scalable

Can create/manage storage account using:

- Azure CLI
- Portal storage
- PowerShell CLI

Cloud shell creates an account for you

- Free account for non-persistent storage



Can specify a custom private IP address space

- Azure by default will assign a private IP

Can segment vNet into subnets

Azure will provide name resolution or you can roll your own.

- It's 👏always 👏DNS 👏👏👏👏👏👏

Allows you to filter traffic by creating security rules (in/out)

- Think Windows Firewall

Can identify service tags which represents a group of IP prefixes to minimize security rule creation

All outside Azure traffic is blocked

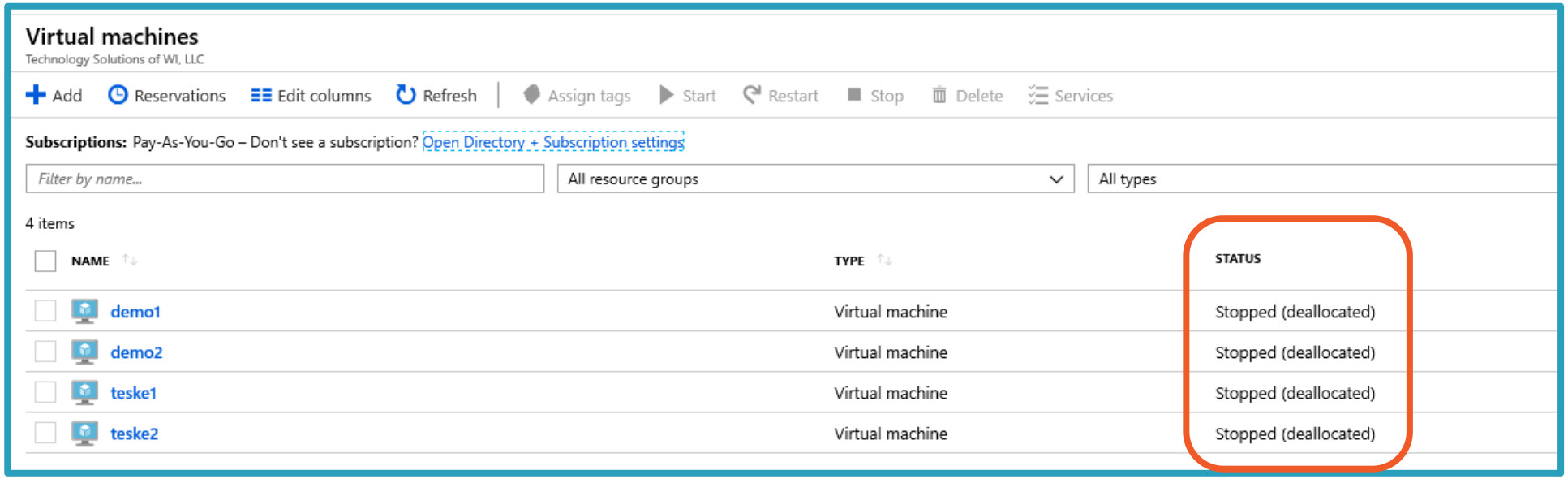
- Must tell VM to allow RDP (or whatever service) through

Provides a variety of images from the Marketplace

Default Windows VM is 2016

- Core UI if done through portal
  - Can select other options
- In PowerShell, you'll have the desktop by default
  - Defaults to a higher level tier as well
- "Free" template prevents you from mistakenly choosing non-free compute/disks etc.
  - Always search for Free Services in the portal while you can.

Azure VM


Virtual machines
Technology Solutions of WI, LLC
Add
Reservations
Edit columns
Refresh
Assign tags
Start
Restart
Stop
Delete
Services
Subscriptions: Pay-As-You-Go – Don't see a subscription? Open Directory + Subscription settings
Filter by name...
All resource groups
All types
4 items
NAME
TYPE
STATUS
demo1
Virtual machine
Stopped (deallocated)
demo2
Virtual machine
Stopped (deallocated)
teske1
Virtual machine
Stopped (deallocated)
teske2
Virtual machine
Stopped (deallocated)

```
Get-AzVM –ResourceGroupName demo-rg | Stop-AzVM -force
```

Azure VMs

The above commands stops the VM's from the RG (optional).

-force "deallocates" the VMs

Deallocated VMs do not add per/minute charges to Azure $$.
Releases reservations (public IP) and resources.

Azure Cloud shell

- Bash
- PowerShell
- Both leverage Azure CLI

AzureRM module is being replaced by the new AZ module

-Enable-AzureRMAlias to enable AzureRM compatibility mode until scripts are refactored

Your shell anywhere, anytime on any device

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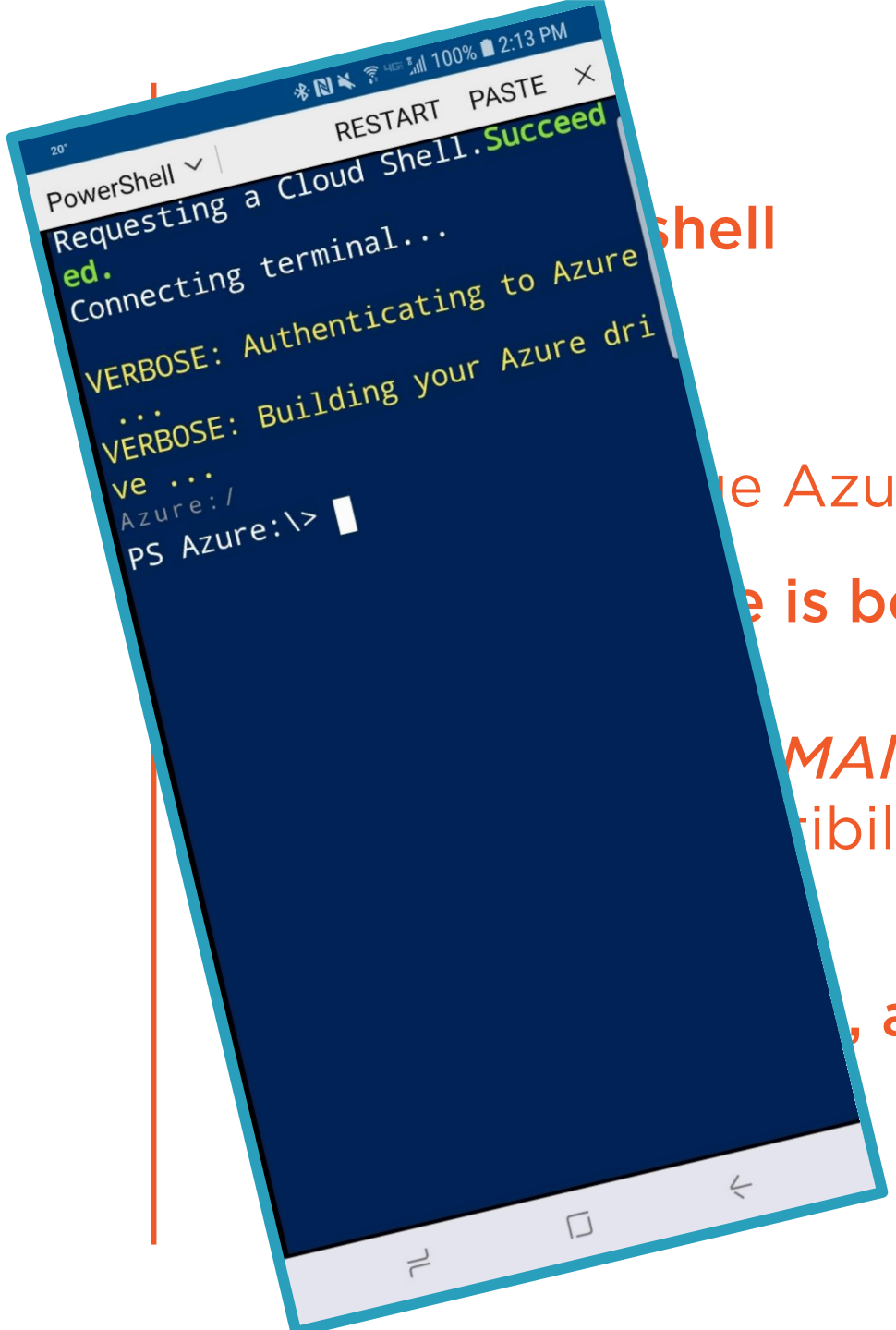

shell

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Demo

Let’s play!

Thank you RTPSUG!

Special thanks to @mikekanakos for inviting me!