



Becoming a Microsoft Azure Administrator

On-prem to the Cloud: Shifting Your Paradigm



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Agenda



Set expectations for this Pluralsight seminar series

Define the Azure Administrator job role

Review cloud computing fundamentals

set yourself up for success





Seminar Series Overview and Goals

Seminar Series Overview



Shifting Your
Paradigm



Get Up to Speed with
Azure IaaS



Get Up to Speed with
Azure PaaS



Sprinkle Some Azure
DevOps on It



Skills Development:
Theory and Practice



Skills Development:
Certification



Key Goals



Describe the Azure Administrator job role



Evaluate Azure Administrator work in daily practice



Create a concrete, detailed learning plan to accomplish your professional goals



Session Materials

timw.info/admin





The Azure Administrator Job Role

Azure Administrator

An IT professional who implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment.



Paradigm shift

A fundamental change in approach or underlying assumptions.



Why a Paradigm Shift is Necessary: SQL Server Database High Availability

Local IT Administration

Obtain budget and buy-in to create a SQL Server failover cluster

Train staff to tend to the HA cluster

Obtain budget and buy-in to replicate the database to another datacenter

Is that enough?!?

Azure Administration

Provision an Azure SQL Database and virtual server in less than five minutes

Geo-replicate the database to other geographic regions and configure failover in less than 20 minutes

Look at the cloud as a “greenfield” opportunity



Demo



1

Demonstrate Azure SQL Database
geo-replication





General Cloud Computing Attributes

NIST Cloud Computing Essential Characteristics

On-demand self-service

- Customers can provision their own resources

Broad network access

- REST APIs accessible in several form factors/application types

Resource pooling

- Dynamically assigned resources in a multi-tenant environment

Rapid elasticity

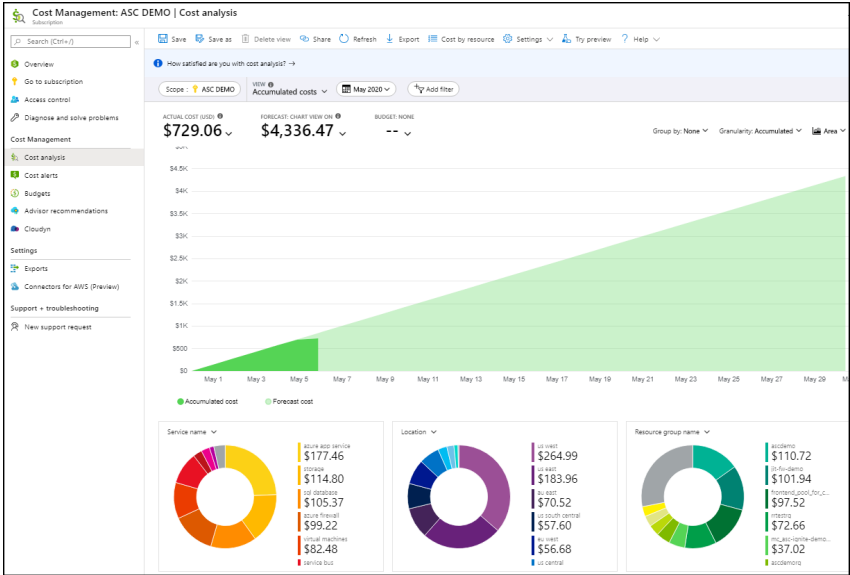
- Automatically scale up and down, in and out

Measured service

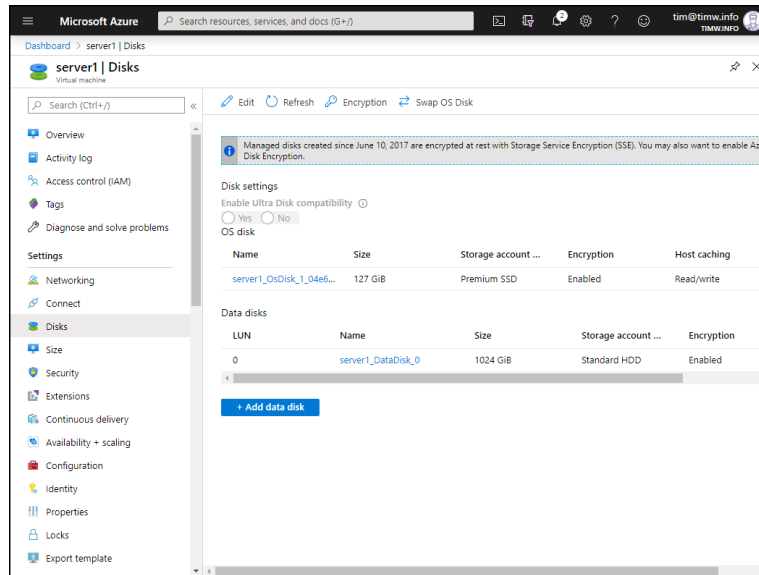
- Pay only for the resources you consume; meters allow you to check consumption



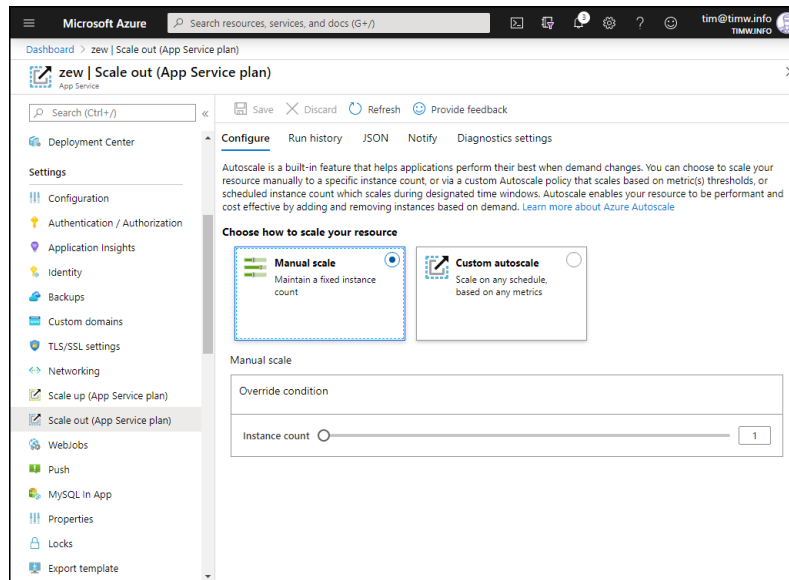
Consumption Model



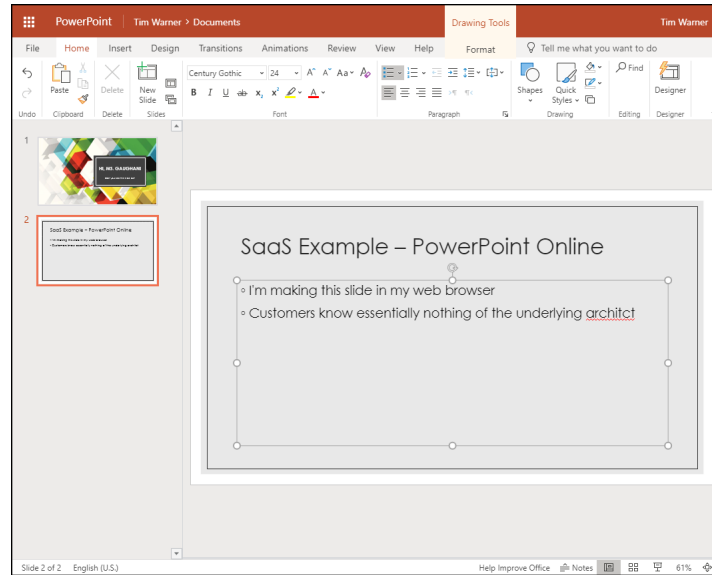
Infrastructure-as-a-Service (IaaS)



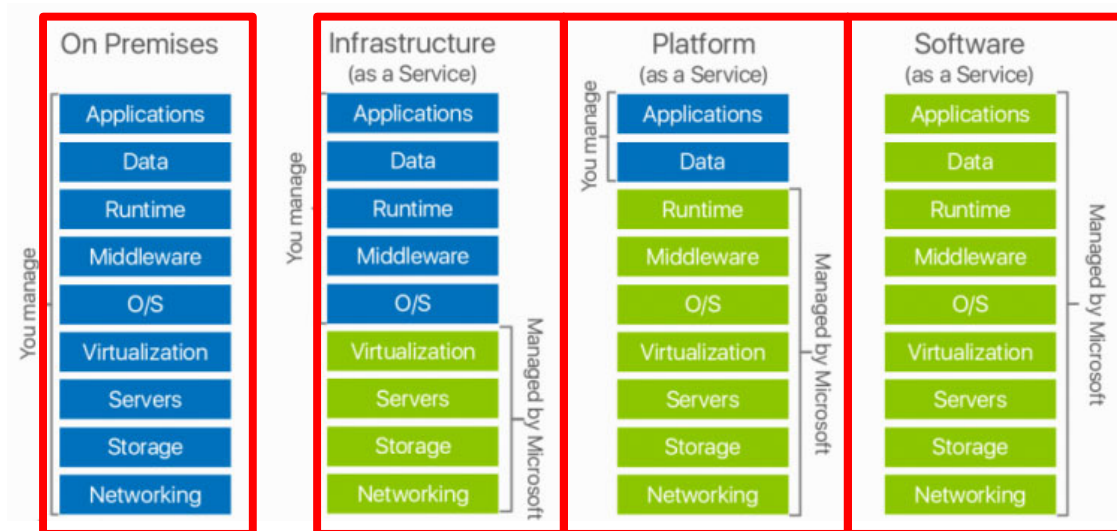
Platform-as-a-Service (PaaS)



Software-as-a-Service (PaaS)



Shared Responsibility Model



timw.info/deOcd



Demo



2

Demonstrate Azure VM (IaaS)

Demonstrate OneDrive (SaaS)





Set Yourself Up for Success

Microsoft Azure Free Account

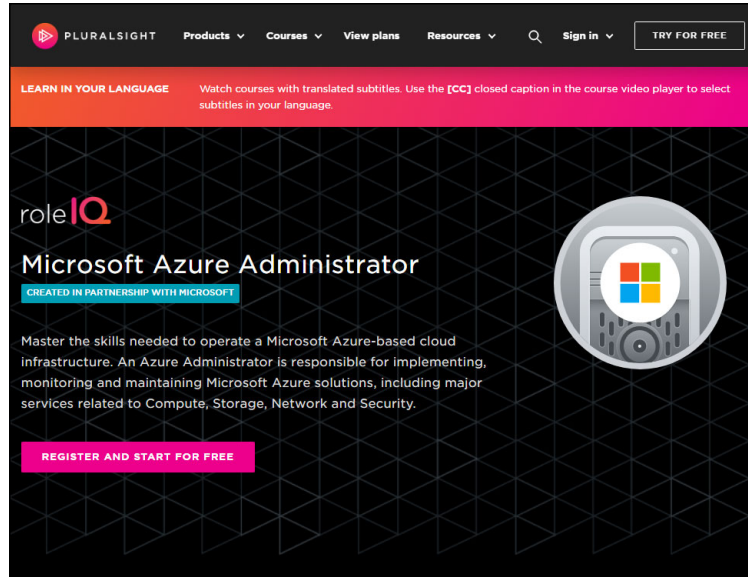
The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with the Microsoft Azure logo, a search bar, and user information for 'tim@timw.info'. Below this, the breadcrumb trail reads 'Dashboard > Free services'. The main heading is 'Free services'. A sub-heading states 'Services free for 12 months with the Azure free account', followed by a paragraph explaining that these services are free for 12 months and listing limits. Below this, there are six service tiles arranged in a 2x3 grid. Each tile includes an icon, the service name, category, free tier details, a brief description, and a 'Create' button.

Service	Category	Free Tier	Description
Windows Virtual Machine	COMPUTE	750 hours B1S	Create Windows virtual machines with on-demand capacity in seconds. Learn more
Linux Virtual Machine	COMPUTE	750 hours B1S	Create Linux virtual machines with on-demand capacity in seconds. Learn more
Azure Managed Disks	STORAGE	64 GB x 2	Get premium, secured disk storage for Azure Virtual Machines with simplified management. Learn more
Azure Blob Storage	STORAGE	5 GB LRS hot block	Use massively-scalable object storage for any type of unstructured data. Learn more
Azure File Storage	STORAGE	5 GB LRS File Storage	Migrate to simple, distributed, cross-platform file storage without changing code. Learn more
SQL Database	DATABASES	250 GB	Create an Azure SQL Database that delivers intelligence built-in. Learn more

timw.info/free



Pluralsight: Azure Administrator Learning Path



[timw.info/
psadmin](https://timw.info/psadmin)

Microsoft Learn: Azure Administrator Learning Path

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Browse all

Learn new skills and discover the power of Microsoft products with step-by-step guidance. Start your journey today by exploring our learning paths and modules.

Filter

Search

Products: Administrator

Roles: 325 results found

- ☒ Administrator
- ☐ AI Edge Engineer
- ☐ AI Engineer
- ☐ Business Analyst
- ☐ Business Owner
- ☐ Business User
- ☐ Data Analyst
- ☐ Data Engineer
- ☐ Data Scientist
- ☐ Developer
- ☐ DevOps Engineer
- ☐ Functional Consultant
- ☐ Maker
- ☐ Security Engineer
- ☐ Solutions Architect
- ☐ Student
- ☐ Technology Manager

Levels: Types:

MODULE
Create an Azure account
39 min ★★★★★ 4.7 (85,991)
Azure | Administrator | Beginner
33%

MODULE
Cloud Concepts - Principles of cloud computing
1 hr 2 min ★★★★★ 4.8 (116,233)
Azure | Administrator | Beginner
95%

MODULE
Core Cloud Services - Azure architecture and service guarantees
45 min ★★★★★ 4.7 (49,021)
Azure | Administrator | Beginner
17%

LEARNING PATH
Azure fundamentals
9 hr 48 min
Azure | Developer | Beginner

MODULE
Core Cloud Services - Azure compute options
38 min ★★★★★ 4.7 (40,462)
Azure | Developer | Beginner

MODULE
Core Cloud Services - Manage services with the Azure portal
1 hr 13 min ★★★★★ 4.7 (35,569)
Azure | Administrator | Beginner

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msadmin

Microsoft Azure User Groups

Meetup.com

Find out what's happening in Azure Meetup groups around the world and start meeting up with the ones near you.

426,495 members | 824 groups

Join Azure groups

Related topics: [Cloud Computing](#) · [Microsoft Azure](#) · [Windows Azure Platform](#) · [Microsoft Technology](#) · [Microsoft](#) · [.NET](#) · [IaaS \(Infrastructure as a Service\)](#) · [Software Development](#) · [PaaS \(Platform as a Service\)](#) · [C#](#)



Demo



3

<if there's enough time>

Show how to sign up for Azure free account

Show how to sign up for Pluralsight individual trial account



Questions?



What's Next



Shifting Your
Paradigm



Sprinkle Some Azure
DevOps on It



Get Up to Speed with
Azure IaaS



Skills Development:
Theory and Practice



Get Up to Speed with
Azure PaaS



Skills Development:
Certification



Session 1 Homework



Sign up for a Pluralsight free trial account
(10 days/200 min; convertible)



Sign up for an Azure free account by using your Microsoft Account



Study the objectives for Exam AZ-104, Microsoft Azure Administrator





Thanks so much!

Session materials: timw.info/admin



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