



# Becoming a Microsoft Azure Administrator

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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**

**Help you begin your journey**





# Seminar Series Overview and Goals

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## 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



## Session Materials

[timw.info/admin](http://timw.info/admin)





# The Azure Administrator Job Role

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## 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

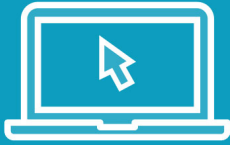
Provision an Azure SQL Database and virtual server in less than five minutes

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

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# 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

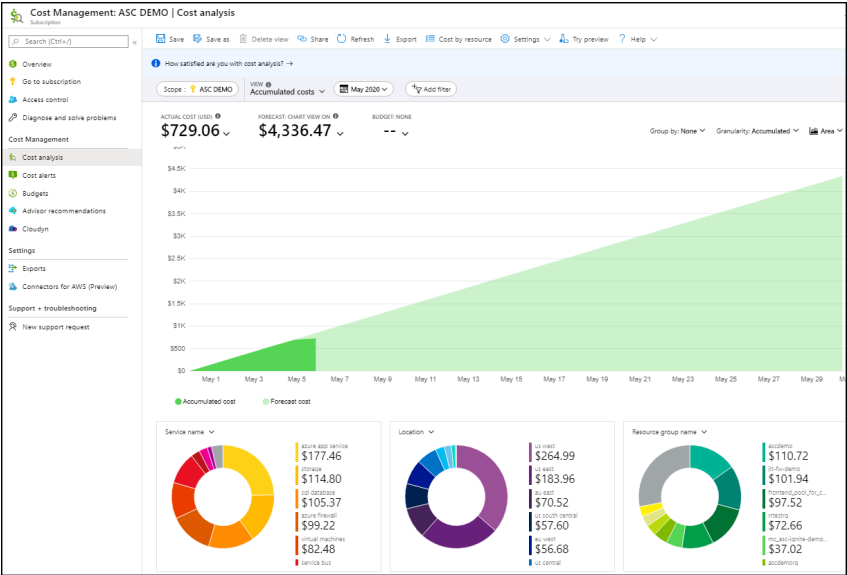
- Automatically scale up and down, in and out

## Measured service

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



# Consumption Model



# Infrastructure-as-a-Service (IaaS)

Microsoft Azure | Search resources, services, and docs (G+)

Dashboard > server1 | Disks

server1 | Disks

Virtual machine

Search (Ctrl+J)

Edit Refresh Encryption Swap OS Disk

Managed disks created since June 10, 2017 are encrypted at rest with Storage Service Encryption (SSE). You may also want to enable Azure Disk Encryption.

Disk settings

Enable Ultra Disk compatibility

☐ Yes ☒ No

OS disk

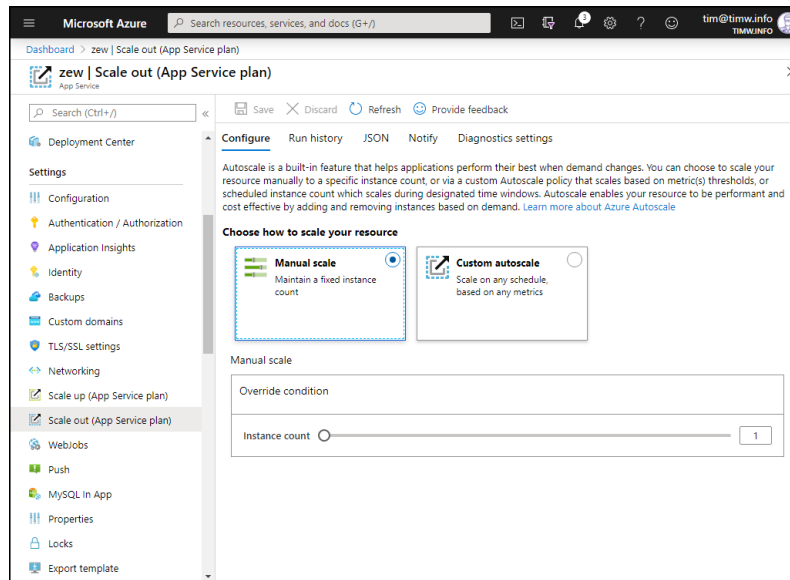
Name	Size	Storage account ...	Encryption	Host caching
server1_OsDisk_1_0466...	127 GiB	Premium SSD	Enabled	Read/write

Data disks

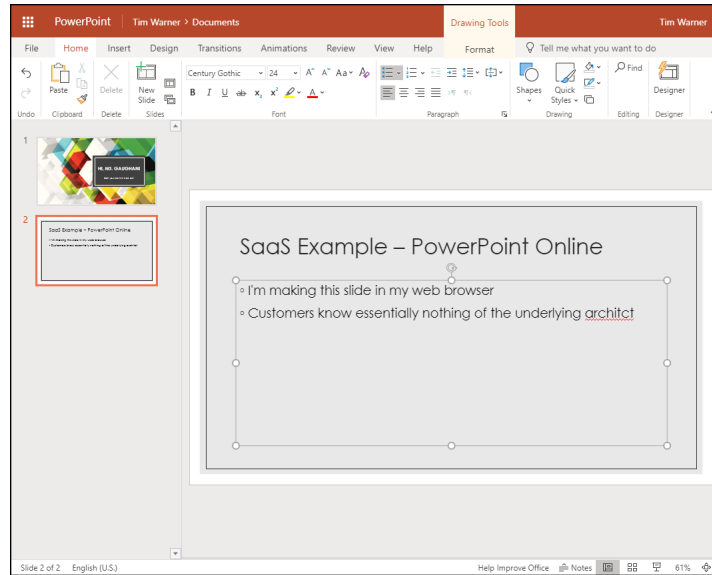
LUN	Name	Size	Storage account ...	Encryption
0	server1_DataDisk_0	1024 GiB	Standard HDD	Enabled

+ Add data disk

# Platform-as-a-Service (PaaS)

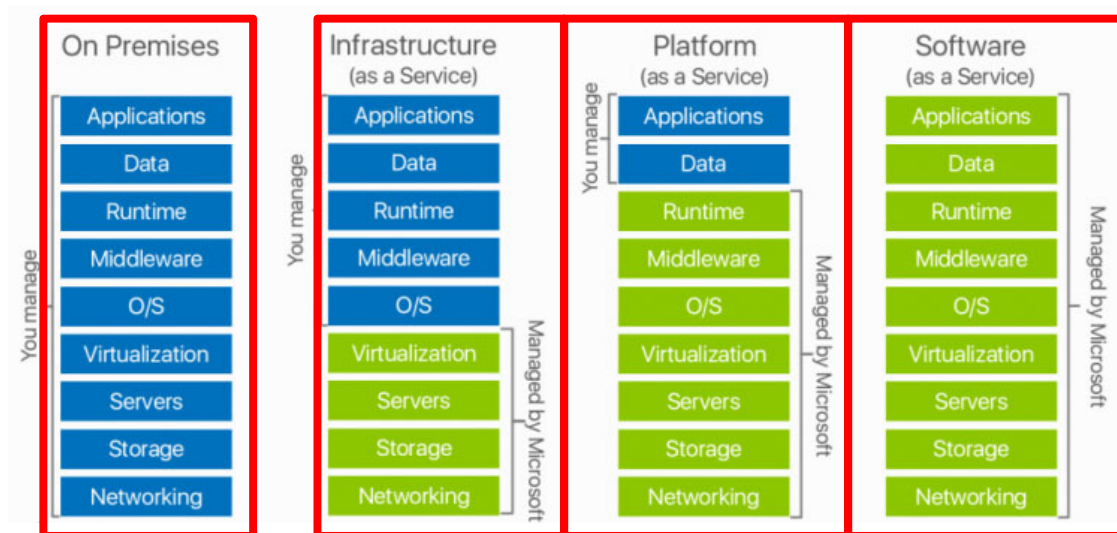


# Software-as-a-Service (PaaS)





## Shared Responsibility Model



[timw.info/deOcd](http://timw.info/deOcd)



Demo



2

Demonstrate Azure VM (IaaS)

Demonstrate OneDrive (SaaS)

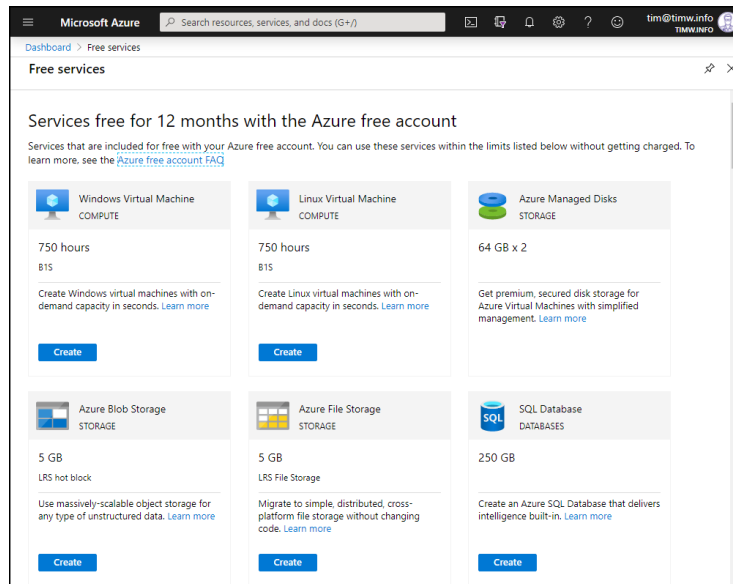




# Set Yourself Up for Success

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# 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 (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'. Below this, a paragraph explains that services are included for free with an Azure free account, with a link to the 'Azure free account FAQ'. The page displays six service tiles, each with an icon, category, name, free tier details, description, and a 'Create' button. The services are: Windows Virtual Machine (750 hours B1S), Linux Virtual Machine (750 hours B1S), Azure Managed Disks (64 GB x 2), Azure Blob Storage (5 GB LRS hot block), Azure File Storage (5 GB LRS File Storage), and SQL Database (250 GB). Each tile includes a brief description and a 'Learn more' link. In the bottom left corner of the screenshot, there is an orange button with the text 'timw.info/free'. In the bottom right corner, there is a small circular icon with a play button symbol.

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

timw.info/free

# Pluralsight: Trial Account

The screenshot shows the Pluralsight website with a dark header. The header includes the Pluralsight logo, a search bar with the text "How can we help you?", and a "Submit a ticket" button. The main content area is divided into a left sidebar and a right main section. The sidebar contains a list of links: Home, Welcome to Pluralsight, How to use our features, Billing & subscriptions, Troubleshooting & common questions, What's new, and Skills how to videos. The main section displays the article "How does the free trial for individuals work?". The article includes a breadcrumb trail, a "Download to PDF" link, a "Skills" tag, and a paragraph explaining the trial. A pink callout box contains an important note about the trial's conversion to a paid subscription. Below this, there is a section titled "What can I access on Pluralsight Skills as a free trial member?" which lists the available trials and the features of the individual trial.

PLURALSIGHT

How can we help you?

Submit a ticket

Home > Billing & subscriptions > Pluralsight Skills individual subscriptions > Before I purchase an individual subscription

## How does the free trial for individuals work?

[Download to PDF](#)

Tags: [Skills](#)

Individuals can try out Pluralsight Skills using a free trial. You have 10 days or 200 minutes of access to our content, whichever comes first. Click [here](#) to sign up for your free trial.

**Important:** If you do not cancel your trial within the 10 days, your trial will automatically convert into a paid subscription. Scroll to the bottom of this article to see how to cancel your trial.

If you reach the 200 minute threshold before 10 days, you will be prompted to renew your subscription. You can upgrade your free trial to a paid subscription through your [Subscription & Billing](#) tab on your Account page.

### What can I access on Pluralsight Skills as a free trial member?

There are two individual trials available: Individual and Premium.

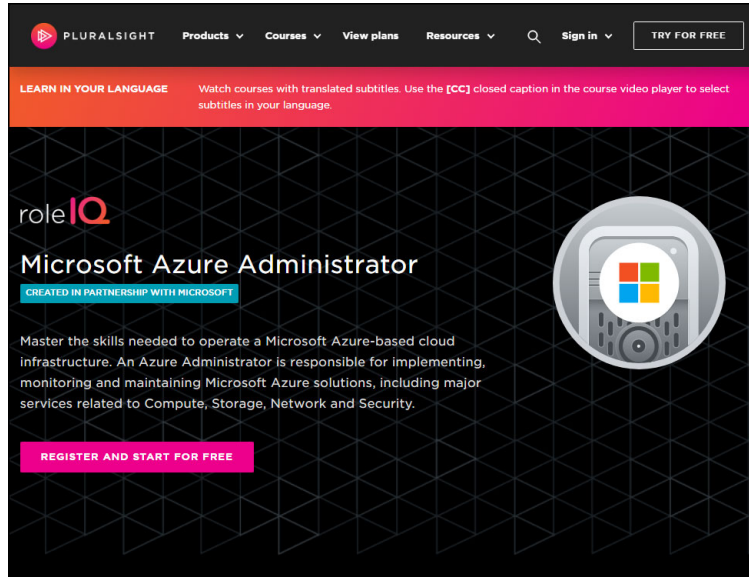
On our individual trial, you can watch all Skills video courses (up to 200 minutes), create channels, earn certificates of completion, take Skill IQ assessments, and take notes. Course downloads and offline viewing are only available to paid subscribers.

10d/  
200min

timw.info/  
pstrial



# Pluralsight: Azure Administrator Learning Path



The screenshot displays the Pluralsight website interface. At the top, a navigation bar includes the Pluralsight logo, links for Products, Courses, View plans, Resources, a search icon, Sign in, and a TRY FOR FREE button. Below this, a pink banner reads "LEARN IN YOUR LANGUAGE" with a note about translated subtitles. The main content area features the "roleIQ" logo, the title "Microsoft Azure Administrator", and a sub-header "CREATED IN PARTNERSHIP WITH MICROSOFT". A descriptive paragraph states: "Master the skills needed to operate a Microsoft Azure-based cloud infrastructure. An Azure Administrator is responsible for implementing, monitoring and maintaining Microsoft Azure solutions, including major services related to Compute, Storage, Network and Security." A prominent pink button labeled "REGISTER AND START FOR FREE" is positioned below the text. To the right of the text is a circular graphic containing the Microsoft logo and a server icon. The background of the main content area has a dark, geometric pattern. A small play button icon is visible in the bottom right corner of the screenshot.

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

# Microsoft Learn: Azure Administrator Learning Path

The screenshot shows the Microsoft Learn website interface. At the top, there's a navigation bar with 'Microsoft', 'Docs', 'Documentation', 'Learn', and 'Code Samples'. Below this, a 'Browse all' section is visible. A 'Filter' sidebar on the left lists various roles, with 'Administrator' selected. The main content area displays '325 results found' and shows a grid of learning modules. The modules include 'Create an Azure account', 'Cloud Concepts - Principles of cloud computing', 'Core Cloud Services - Azure architecture and service guarantees', 'Azure fundamentals', 'Core Cloud Services - Azure compute options', and 'Core Cloud Services - Manage services with the Azure portal'. Each module card shows its duration, rating, and progress bar.

Microsoft | Docs | Documentation | **Learn** | Code Samples

Search

Learn | Learning Paths | Certifications | FAQ & Help

Docs / Learn / Browse | Bookmark | Share

## 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: ☒ 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:

325 results found | Hide completed

- MODULE**  
**Create an Azure account**  
39 min ★★★★★ 4.7 (85,991)  
Azure | Administrator | Beginner  
Progress: 33%
- MODULE**  
**Cloud Concepts - Principles of cloud computing**  
1 hr 2 min ★★★★★ 4.8 (116,233)  
Azure | Administrator | Beginner  
Progress: 95%
- MODULE**  
**Core Cloud Services - Azure architecture and service guarantees**  
45 min ★★★★★ 4.7 (49,021)  
Azure | Administrator | Beginner  
Progress: 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

timw.info/  
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

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



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!

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**Session materials:** [timw.info/admin](https://timw.info/admin)



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