



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

Help you begin your journey





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



Session Materials

timw.info/admin





The Azure Administrator Job Role

Azure Administrator (Theoretical)

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



Azure Administrator (Practical)

An IT professional who becomes their company's subject matter expert (SME) on Azure and helps development, Q/A, support, security and DevOps engineers get productive in Azure.



Azure Administrator Salary Expectations

Nigel Frank timw.info/ss1

- \$100,000 USD

ZipRecruiter timw.info/ss2

- \$108,000 USD

Global Knowledge timw.info/ss3

- \$122,000 USD

Neuvoo timw.info/ss4

- \$106,000 USD



"How much of my existing sysadmin skill set can I port to Azure?"

Common and appropriate question



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

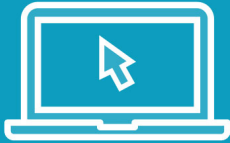
Provision an Azure SQL Database and virtual server in less than five minutes

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

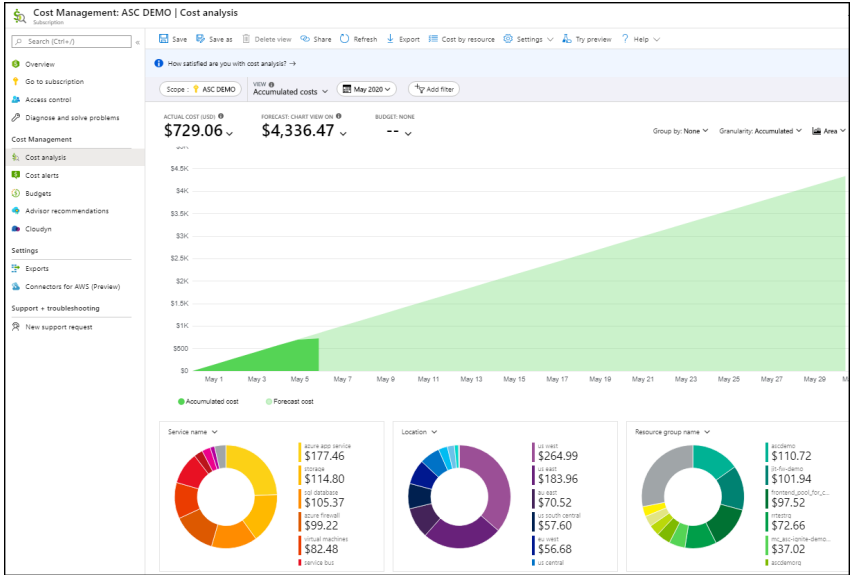
- Automatically scale up and down, in and out

Measured service

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



Consumption Model



Infrastructure-as-a-Service (IaaS)

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

Dashboard > server1 | Disks

server1 | Disks

Virtual machine

Search (Ctrl+J)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Disks

Size

Security

Extensions

Continuous delivery

Availability + scaling

Configuration

Identity

Properties

Locks

Export template

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

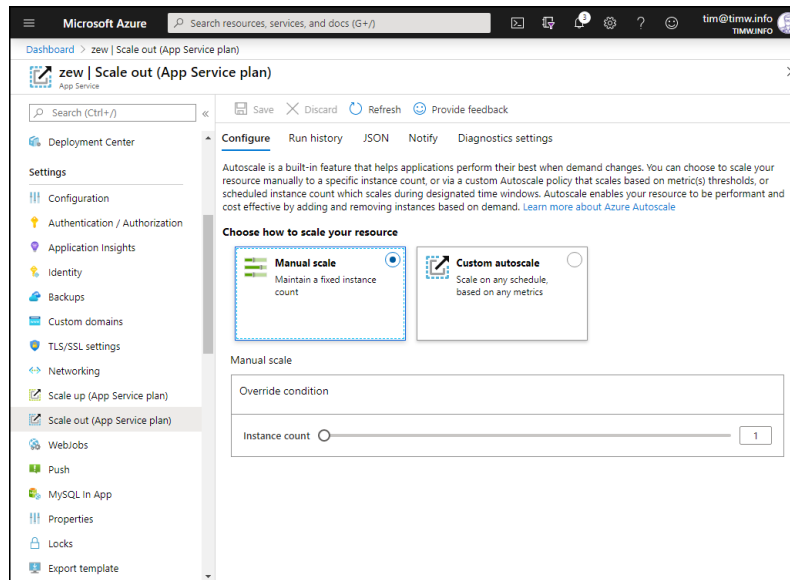
Name	Size	Storage account ...	Encryption	Host caching
server1_OsDisk_1_0466...	127 GiB	Premium SSD	Enabled	Read/write

Data disks

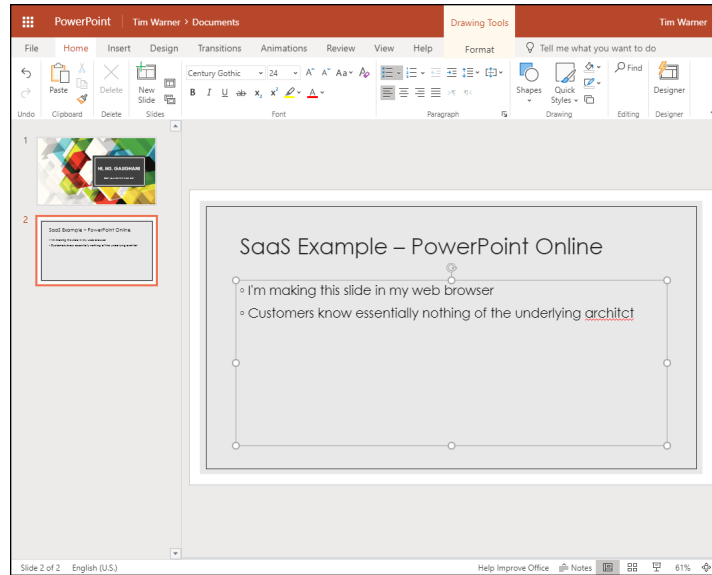
LUN	Name	Size	Storage account ...	Encryption
0	server1_DataDisk_0	1024 GiB	Standard HDD	Enabled

+ Add data disk

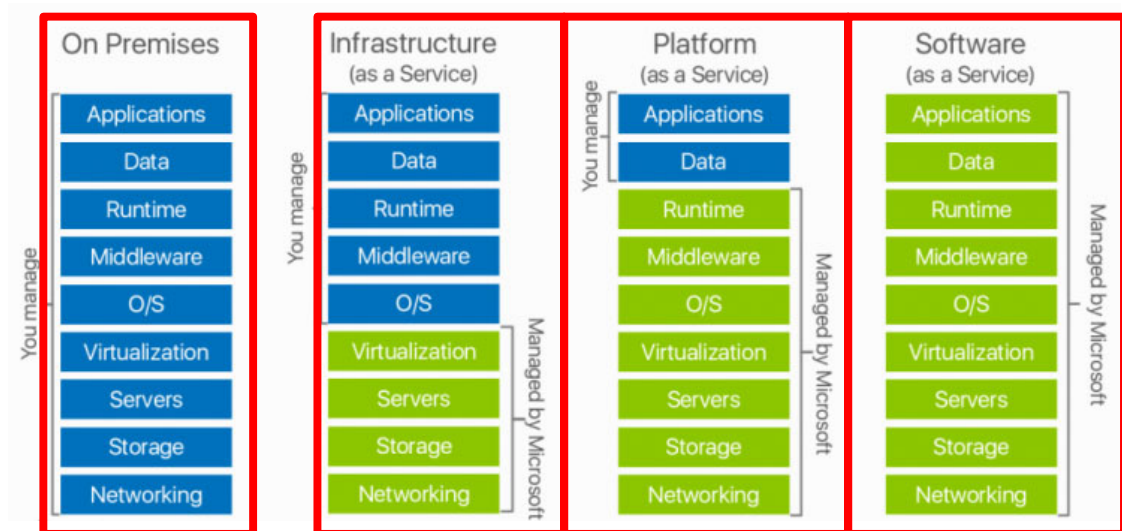
Platform-as-a-Service (PaaS)



Software-as-a-Service (PaaS)



Shared Responsibility Model



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Demo



2

Demonstrate Azure VM (IaaS)

Demonstrate OneDrive (SaaS)





Set Yourself Up for Success

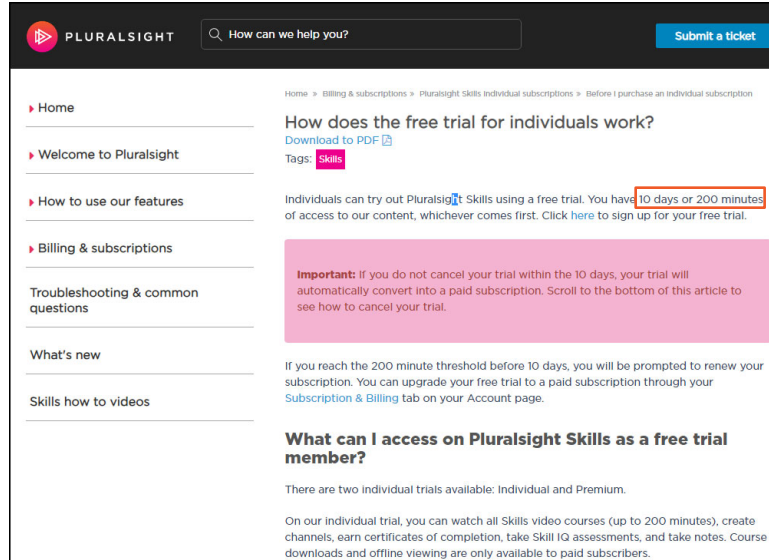
Microsoft Azure Free Account

The screenshot shows the Microsoft Azure portal interface. At the top, the navigation bar includes the Microsoft Azure logo, a search bar, and the user profile 'tim@timw.info'. The main heading is 'Free services'. Below this, a sub-heading reads 'Services free for 12 months with the Azure free account', followed by a brief explanation and a link to the 'Azure free account FAQ'. The dashboard features six service tiles, each with an icon, category, free tier details, a 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 also includes 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	Create Button
Windows Virtual Machine	COMPUTE	750 hours B1S	Create Windows virtual machines with on-demand capacity in seconds. Learn more	Create
Linux Virtual Machine	COMPUTE	750 hours B1S	Create Linux virtual machines with on-demand capacity in seconds. Learn more	Create
Azure Managed Disks	STORAGE	64 GB x 2	Get premium, secured disk storage for Azure Virtual Machines with simplified management. Learn more	Create
Azure Blob Storage	STORAGE	5 GB LRS hot block	Use massively-scalable object storage for any type of unstructured data. Learn more	Create
Azure File Storage	STORAGE	5 GB LRS File Storage	Migrate to simple, distributed, cross-platform file storage without changing code. Learn more	Create
SQL Database	DATABASES	250 GB	Create an Azure SQL Database that delivers intelligence built-in. Learn more	Create

timw.info/free

Pluralsight: Trial Account



The screenshot shows the Pluralsight website's trial account page. The header includes the Pluralsight logo, a search bar with the text "How can we help you?", and a "Submit a ticket" button. The left sidebar contains a navigation menu with links to Home, Welcome to Pluralsight, How to use our features, Billing & subscriptions, Troubleshooting & common questions, What's new, and Skills how to videos. The main content area is titled "How does the free trial for individuals work?" and includes a "Download to PDF" link and a "Skills" tag. The text explains that individuals can try out Pluralsight Skills using a free trial, which offers either 10 days or 200 minutes of access, whichever comes first. A pink callout box highlights an important note: "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." Below this, it states that if the 200-minute threshold is reached before 10 days, users will be prompted to renew their subscription. The section "What can I access on Pluralsight Skills as a free trial member?" follows, noting that there are two individual trials available: Individual and Premium. It also lists the benefits of the individual trial, such as watching all Skills video courses (up to 200 minutes), creating channels, earning certificates, taking Skill IQ assessments, and taking notes. Course downloads and offline viewing are noted as being available only to paid subscribers.

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?

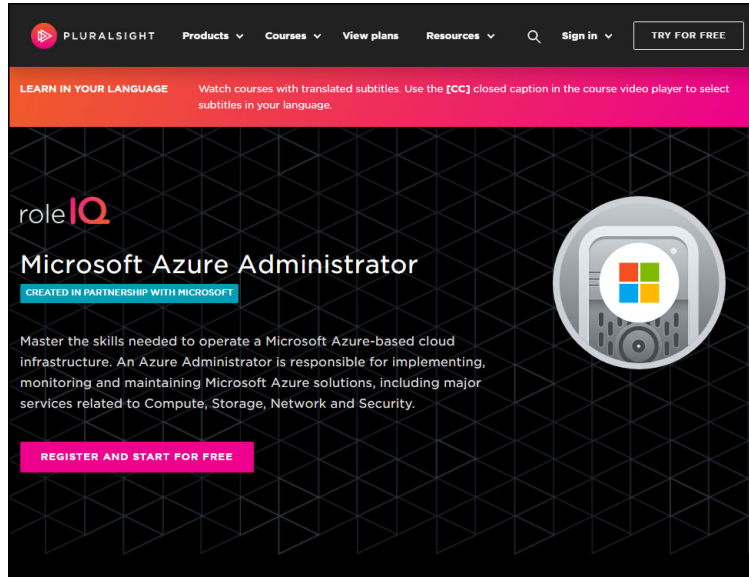
There are two individual trials available: Individual and Premium.

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.

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 icon depicting a server rack with the Microsoft logo. The background of the main content area has a dark, geometric pattern. In the bottom right corner of the screenshot, there is a small play button icon.

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

Microsoft Learn: Azure Administrator Learning Path

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: 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

Show how to sign up for Azure free account

Show how to sign up for Pluralsight individual trial account

Show how to access Azure paths



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!

Session materials: timw.info/admin



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