



# Becoming a Microsoft Azure Administrator

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Azure Administration Skills Development:  
Certification



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## Agenda



Microsoft role-based certifications

AZ-103/4 exam item types

The online testing process

Your cert study strategy



## Seminar Series Overview



Shifting Your  
Paradigm



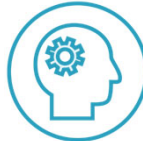
Get Up to Speed with  
Azure IaaS



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)





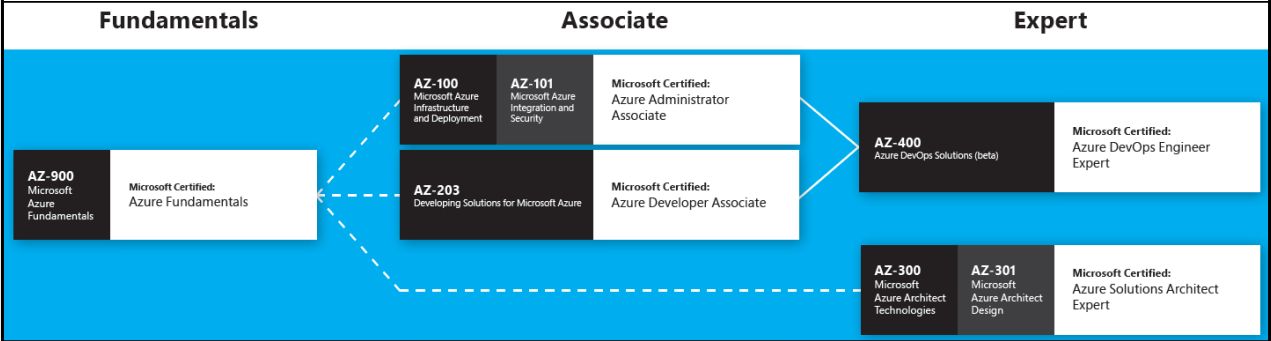
# Microsoft Azure Role-Based Certification

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## Microsoft Certification Evolution



# Azure Apps & Infrastructure Paths



## Azure Administrator Job Role

Candidates for this exam should have subject matter expertise implementing, managing, and monitoring an organization's Microsoft Azure environment.

Responsibilities for an Azure Administrator include implementing, managing, and monitoring identity, governance, storage, compute, and virtual networks in a cloud environment, plus provision, size, monitor, and adjust resources, when needed.

An Azure Administrator often serves as part of a larger team dedicated to implementing your organization's cloud infrastructure.

A candidate for this exam should have at least six months of hands-on experience administering Azure, along with a strong understanding of core Azure services, Azure workloads, security, and governance. In addition, this role should have experience using PowerShell, Azure CLI, Azure portal, and Azure Resource Manager templates.

[timw.info/e104](https://timw.info/e104)





# Exam AZ-104 Objective Domain (OD)

Functional Group	Objective	Skill
Manage Azure Identities and Governance	Manage Azure AD objects	Create users and groups Manage user and group properties manage device settings Perform bulk user updates Manage guest accounts Configure Azure AD Join Configure self-service password reset
	Manage role-based access control (RBAC)	Create a custom role Assign roles to subscriptions, resource groups, and resources Interpret access assignments Manage multiple directories
	Manage subscriptions and governance	Configure Azure policies Configure resource locks Apply tags Move resources Create, edit, and remove resource groups Manage subscriptions Configure Cost Management Configure management groups
	Manage storage accounts	Configure network access to storage accounts Create and configure storage accounts Generate shared access signature Manage access keys Implement Azure storage replication Configure Azure AD Authentication for a storage account
	Manage data in Azure storage	Export from Azure job Import into Azure job Install and use Azure Storage Explorer Copy data by using AZCopy Create an Azure file share Create and configure Azure File Sync service Configure Azure blob storage Configure storage tiers for Azure blobs
	Configure Azure files and Azure blob storage	Configure high availability Deploy and configure scale sets Modify Azure Resource Manager (ARM) templates Configure VHD template
	Configure VMs for high availability and scalability	
	Automate deployment and configuration of VMs	
Implement and Manage Storage		

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az104sg

# Relevant Pluralsight Guide

The screenshot shows a Pluralsight article page. At the top, the Pluralsight logo is on the left, and 'Get started' and 'Log in' buttons are on the right. Below the header, the author's profile 'Tim Warner' is on the left, and the article title 'A Brief Introduction to the Microsoft Azure Role-based Certifications' is on the right. Below the title, it says 'May 4, 2020 • 10 Min read • 414 Views'. There are four tags: 'Cloud', 'Cloud Fundamentals', 'Cloud Fundamentals', and 'Cloud Fundamentals...'. The main content area has a left sidebar with a table of contents: 'Introduction', 'Microsoft Azure Certifications', 'Azure Administrator', 'Azure Developer', 'Azure Solutions Architect', 'Azure DevOps Engineer', 'Azure Security Engineer', 'Azure AI Engineer', 'Designing Your Certification Strategy', and 'Conclusion'. The 'Introduction' section is selected. The main text area contains the 'Introduction' and 'Microsoft Azure Certifications' sections. The 'Introduction' section states that Microsoft has created certifications for their business products and that the guide will learn what Microsoft Azure role-based certifications exist. The 'Microsoft Azure Certifications' section states that as of May 2020, 52 credentials make up the Microsoft Cloud Platform role-based certification portfolio and lists the following job roles: Administrator, Developer, Architect, DevOps Engineer, Security Engineer, and AI Engineer.

PLURALSIGHT

Get started Log in

Tim Warner

## A Brief Introduction to the Microsoft Azure Role-based Certifications

May 4, 2020 • 10 Min read • 414 Views

Cloud Cloud Fundamentals Cloud Fundamentals Cloud Fundamentals...

### Introduction

Historically, Microsoft has created certifications for their business products. However, over the past couple years Microsoft shifted its certification focus to job roles, particularly job roles in the Microsoft Cloud Platform ecosystem.

In this guide you will learn what Microsoft Azure role-based certifications exist, as well as some detailed guidance on crafting your certification strategy.

### Microsoft Azure Certifications

As of this writing in May 2020, 52 credentials make up the **Microsoft Cloud Platform role-based certification portfolio**. However, in this guide we will focus only on the following Azure-related job roles:

- Administrator
- Developer
- Architect
- DevOps Engineer
- Security Engineer
- AI Engineer

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



## Azure Administrator Points to Ponder



The AZ-104 exam is the latest exam version; it's currently in beta

The AZ-103 exam retires on or around August 31, 2020

The exam may or may not include performance-based items





# Exam Item Types

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# Single Answer Multiple Choice



Question 4 (of 5)

Time remaining 01:58:22

- ☐ Review later
- ☐ Comment later

Your network contains an Active Directory domain named contoso.com. The domain contains two servers named Server1 and Server2 that run Windows Server 2012 R2. Server1 has the Group Policy Management feature installed. Server2 has the Print and Document Services server role installed.

On Server2, you open **Print Management** and you deploy a printer named Printer1 by using a Group Policy object (GPO) named GPO1.

When you open GPO1 on Server1, you discover that the Deployed Printers node does not appear.

You need to view the Deployed Printers node in GPO1.

What should you do?

- ☐ A. On Server1, add and share a printer.
- ☐ B. On Server1, install the Print and Document Services Tools.
- ☐ C. On a domain controller, create a Group Policy central store.
- ☐ D. On Server1, modify the Group Policy filtering options of GPO1.



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## Multiple Answer Multiple Choice

**Question 3 of 7**

You have a computer that runs Windows 7.

You start the computer and receive the following error message:

BOOTMGR is missing  
Press Ctrl+Alt+Del to restart

You then start the computer from the Windows 7 installation media.

You need to ensure that the computer successfully starts Windows 7.

What are two possible ways to achieve this goal? ( Each correct answer presents a complete solution. Choose two.)

- ☐ A. Run Startup Repair.
- ☐ B. Run System Restore.
- ☐ C. Run **Bootrec /RebuildBcd**.
- ☐ D. Run **Bcdedit /createstore**.

[Reset\(T\)](#) [Instructions\(I\)](#)



## Repeated Scenario

**You need to move an Azure VM to another hardware host.**

**Solution: You redeploy the VM.**

**Does this solution meet the goal?**

**Yes**

**No**



## Repeated Scenario

**You need to move an Azure VM to another hardware host.**

**Solution: You enable boot diagnostics on the VM.**

**Does this solution meet the goal?**


**Yes**

**No**





## Select and Place

 **Question 5 (of 9)**

☐ Review later  
☐ Comment later





Time remaining **01:38:28**



You have a Microsoft SharePoint 2013 Service Pack 1 (SP1) server farm.


You need to recommend which tools should be used to recover deleted SharePoint site groups, deleted document libraries, and deleted SharePoint Designer 2010 workflows. The solution must use the minimum amount of administrative effort.

Which tool should you recommend for each type of content? To answer, drag the appropriate tool to the correct recovery task. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Tool	Recovery Task
Microsoft SQL Server backups	Document libraries
Recycle Bin	SharePoint Site groups
Windows Server Backups	SharePoint Designer workflows
	Resources

     
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# Build List and Reorder



Question 4 (of 5)

Time remaining 01:56:12

- ☐ Review later
- ☐ Comment later

You have a Hyper-V host named Server1.

A technician creates a virtual machine named VM1 on Server1 by using the New Virtual Machine Wizard.

You start VM1 and you discover that there is no option to start by using PXE.

You need to ensure that you can start VM1 by using PXE.

Which three actions should you perform in sequence? (To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.)

## Actions

- Shut down VM1.
- Modify the BIOS settings of VM1.
- Enable DHCP guard on the legacy network adapter.



## Answer Area

- 1 Modify the virtual switch settings of the legacy network adapter.
- 2 Add a legacy network adapter to VM1.
- 3 Install Integration Services on VM1.



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## Active Screen

**Question 18 of 32**

You configure a SharePoint Server 2010 Service Pack 1 (SP1) server farm.

You need to enable the cache profile for anonymous users on internal collaboration sites for the site collection. You also need to allow administrators to choose a different page output cache profile for page layouts.

What should you do? (To answer, configure the appropriate option or options in the dialog box in the answer area.)

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**Answer Area**

<b>Libraries</b> Site Pages Shared Documents	<b>Output Cache</b> Select the <b>Enable output cache</b> check box to enable output caching in this site collection.	<input checked="" type="checkbox"/> Enable output cache
<b>Lists</b> Calendar Tasks	<b>Default Page Output Cache Profile</b> A cache profile specifies how long items should be held in the cache. It also describes to the caching system how to determine whether a cached page element is in fact valid for other requests for the same element from different users. You can specify different cache profiles to use for anonymous and authenticated users. This optimizes the use of the cache based on the authentication methods allowed on the site. Page output cache profiles specifically affect portal publishing pages. <a href="#">Learn more about the default page output cache profile.</a>	<b>Anonymous Cache Profile</b> <div>Intranet (Collaboration Site)</div> Optimized for collaboration sites where authoring, web part customization, and minor version are enabled.
<b>Discussions</b> Team Discussion		<b>Authenticated Cache Profile</b> <div>Disabled</div> Caching is not enabled

Recycle Bin



## Statement/Code Analysis

```
private void btnEquals_Click(object sender, EventArgs e)
{
    if (plusButtonClicked == true)
    {
        total2 = total1 + double.Parse(txtDisplay.Text);
    }
    else if (minusButtonClicked == true)
    {
        total2 = total1 - double.Parse(txtDisplay.Text);
    }

    txtDisplay.Text = total2.ToString();
    total1 = 0;
}
```

Blah blah blah.

☐ Yes

☐ No

Another statement.

☐ Yes

☐ No



# Case Study

Case Study

Time remaining 01:56:02

## Question

Background

Existing Environment

Business Requirements

Technical Requirements

Problem Statements

Exhibits

This exam includes at least one case study. **Case studies are not timed separately. You can use as much exam time as you would like to complete each case.** However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

### To start the case study

To display the first question in this case study, click the **Next** button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the **Question** button to return to the question.



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## Performance-Based Lab

[illegible]



# The Online Testing Process

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### Exam DP-201: Designing an Azure Data Solution

**Languages:** English, Japanese, Chinese (Simplified), Korean

**Retirement date:** none

This exam measures your ability to accomplish the following technical tasks: design Azure data storage solutions; design data processing solutions; and design for data security and compliance.

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United States ▼

**\$165 USD\***


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[Official practice test](#) for Designing an Azure Data Solution

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DP-201: Designing an Azure Data Solution

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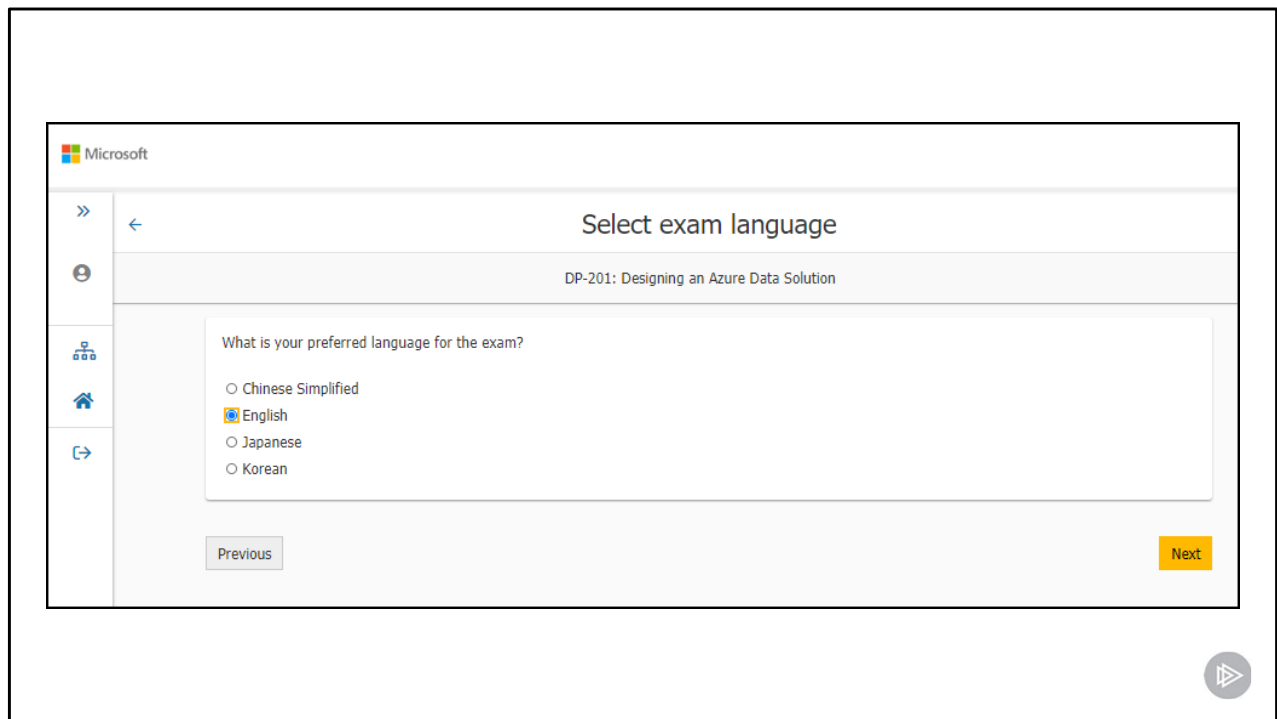
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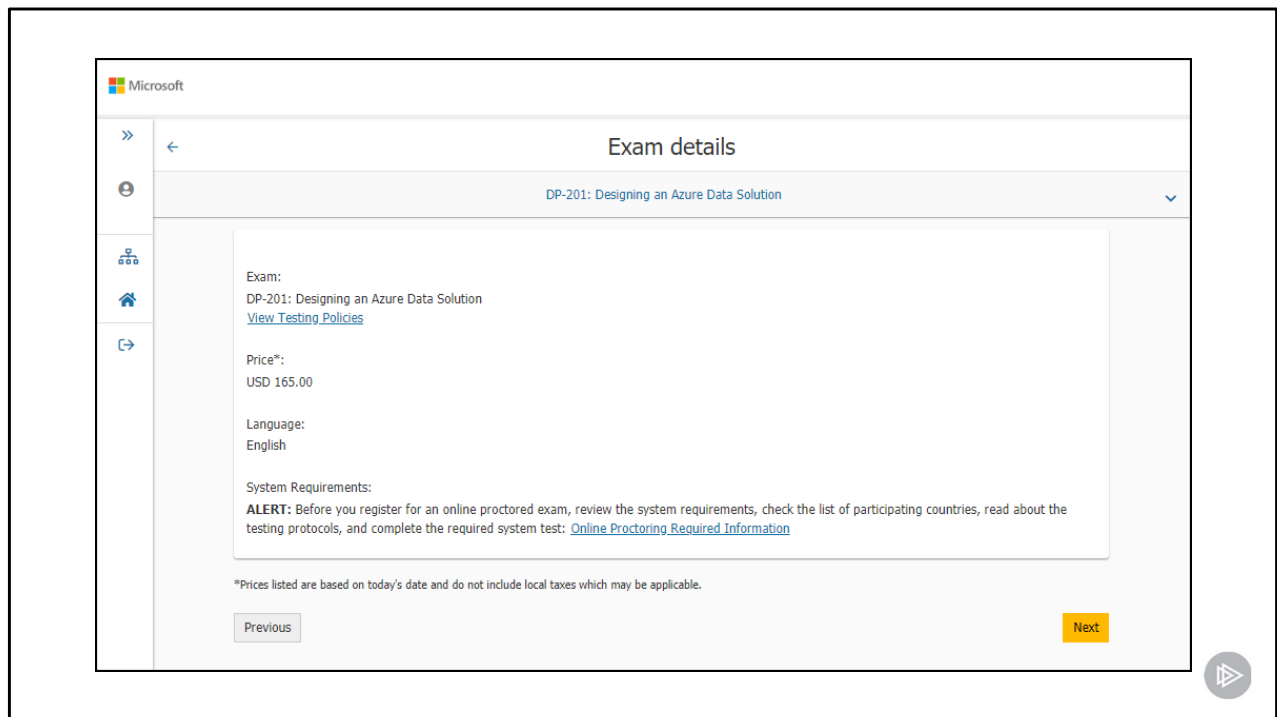
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What is the language you prefer the proctor to speak?

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☒ English

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28	29	30				

Select a date from the calendar. Only available dates can be selected.

Available start times: Thursday, June 18, 2020

Times shown in: America/Chicago-CDT [Change](#) | [Show 24-hour](#)

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08:00 AM	12:30 PM
08:15 AM	12:45 PM
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<b>Exam</b> DP-201: Designing an Azure Data Solution Language: English Exam Length: 180 minutes	<b>Appointment</b> Thursday, June 18, 2020 Start Time: 12:15 PM CDT <a href="#">Change Appointment</a>	165.00	<a href="#">Remove</a>

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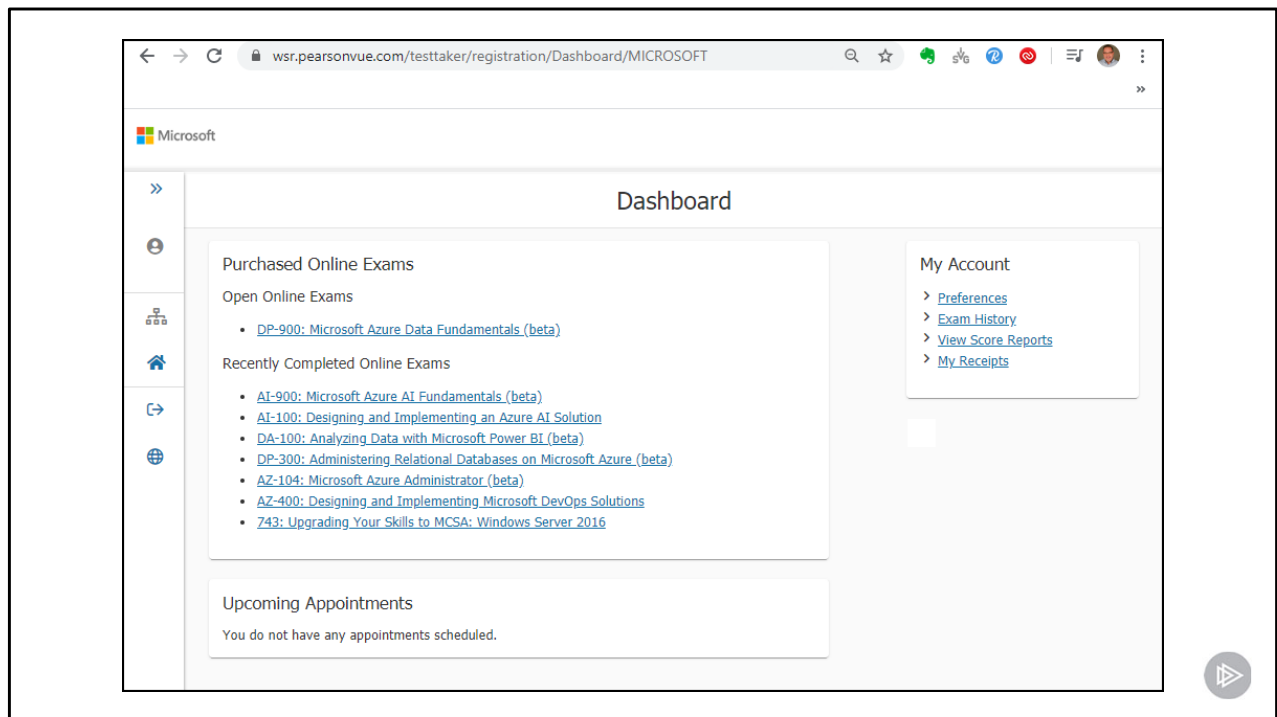
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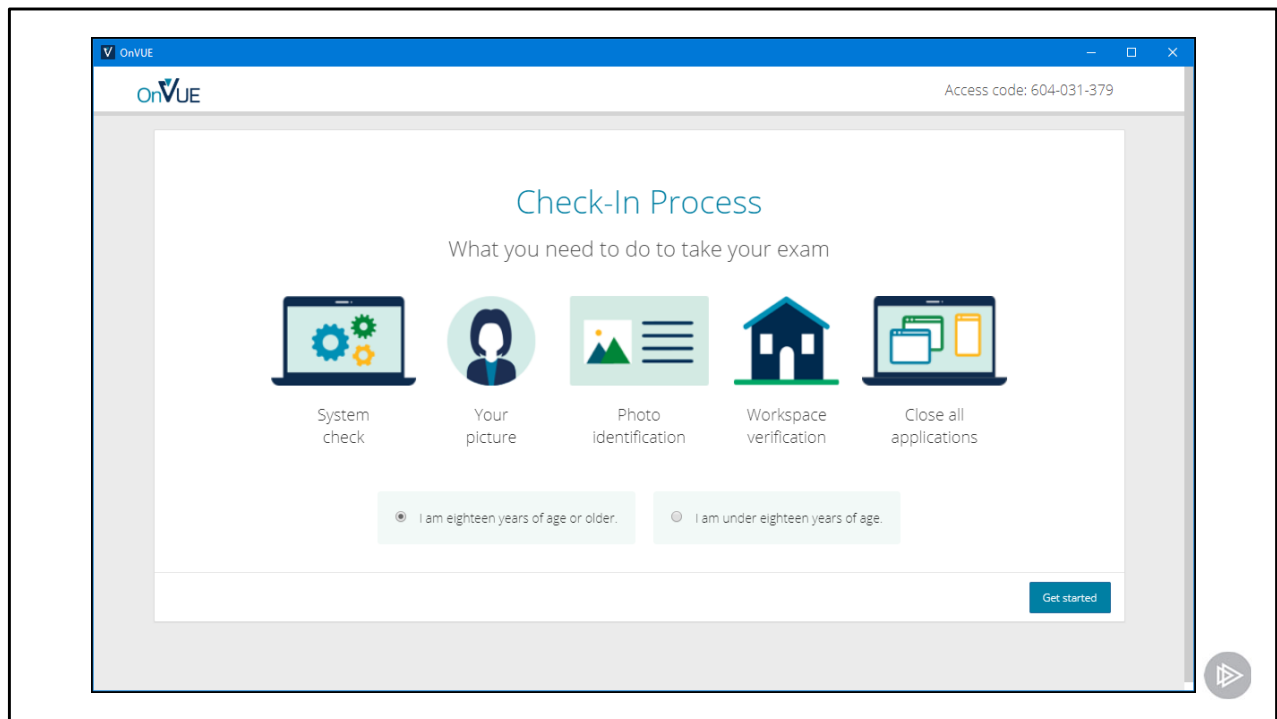
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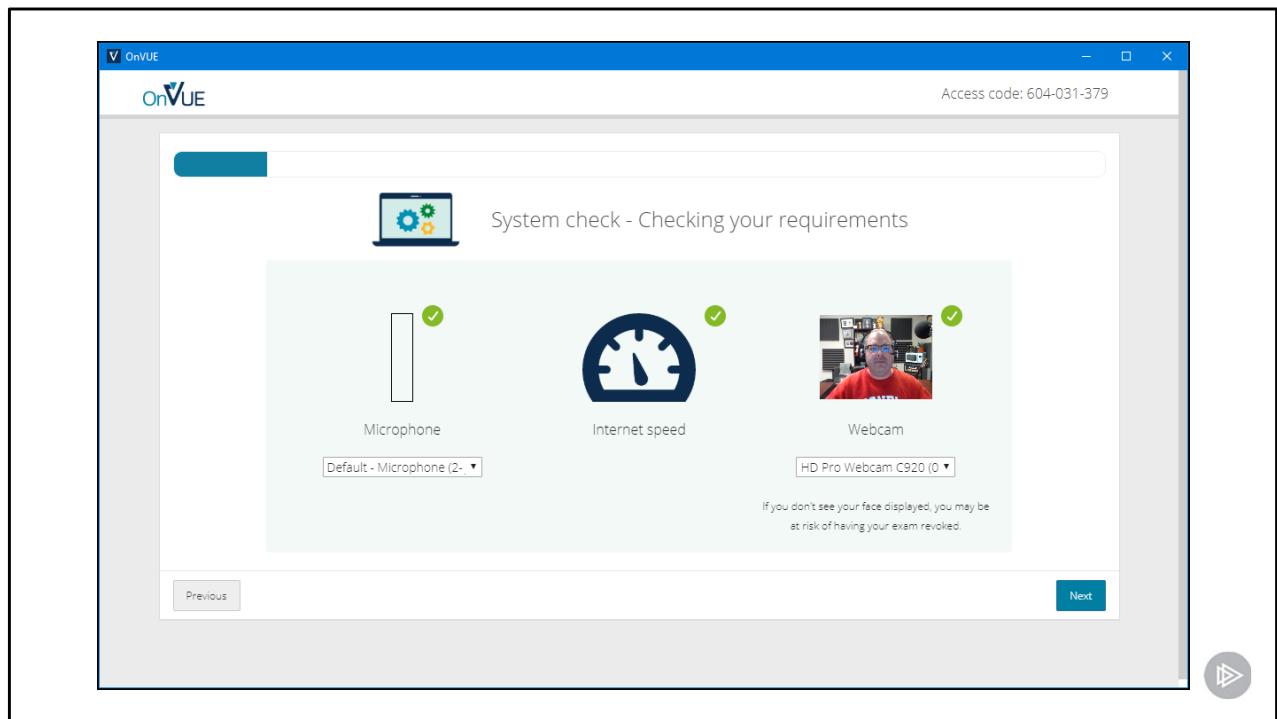
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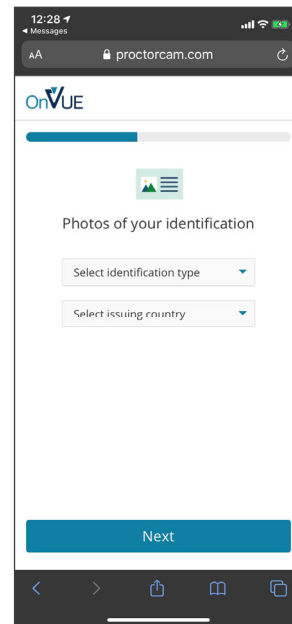
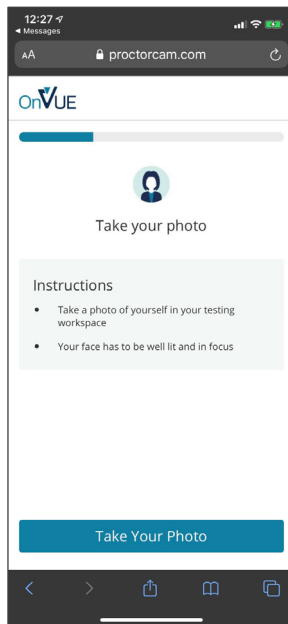
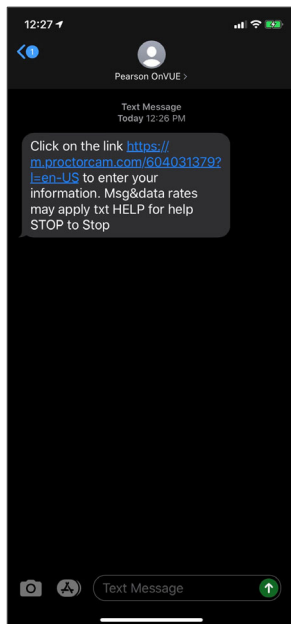
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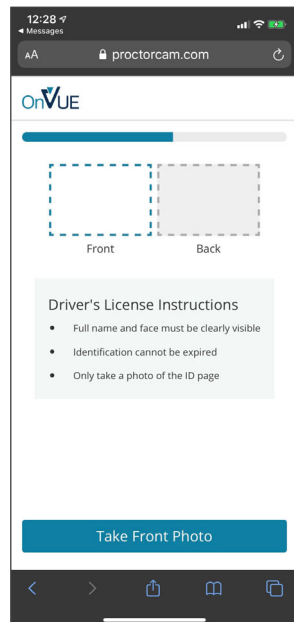
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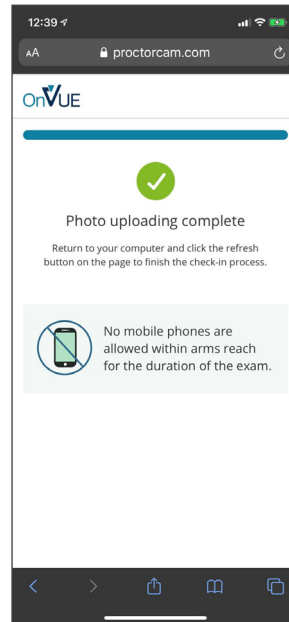
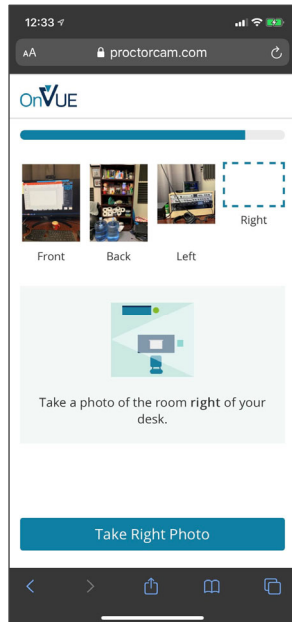
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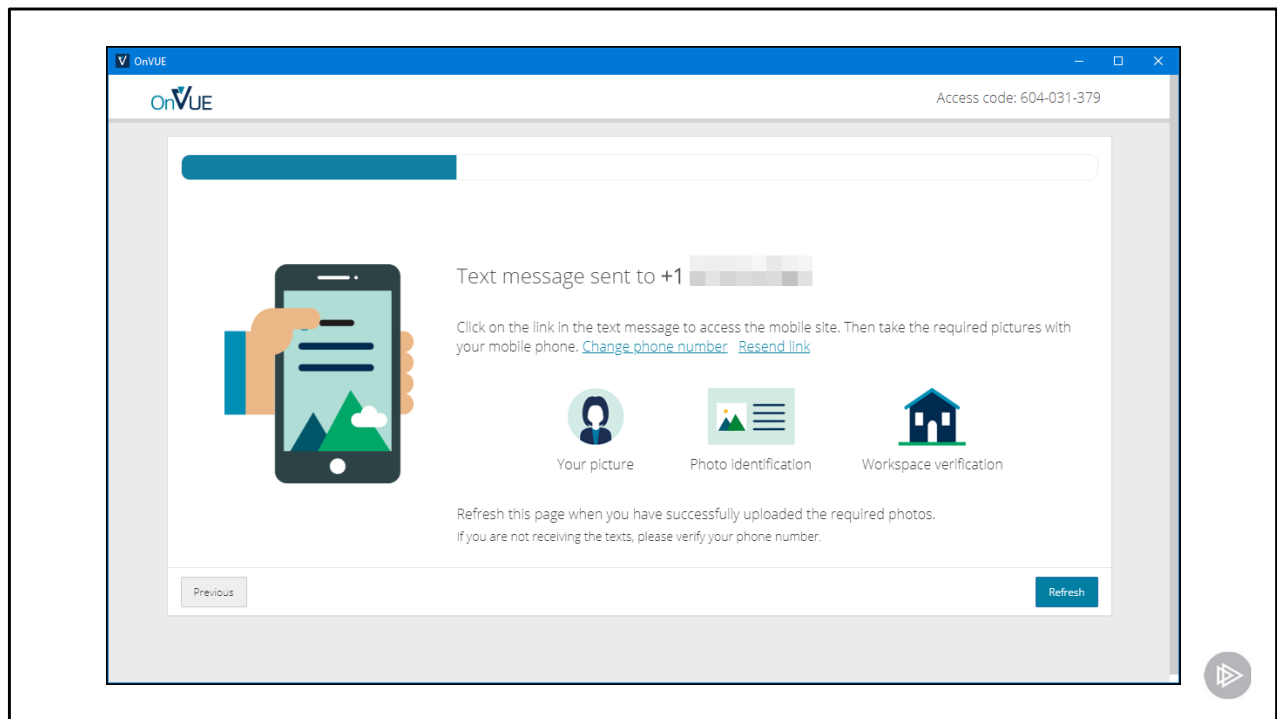
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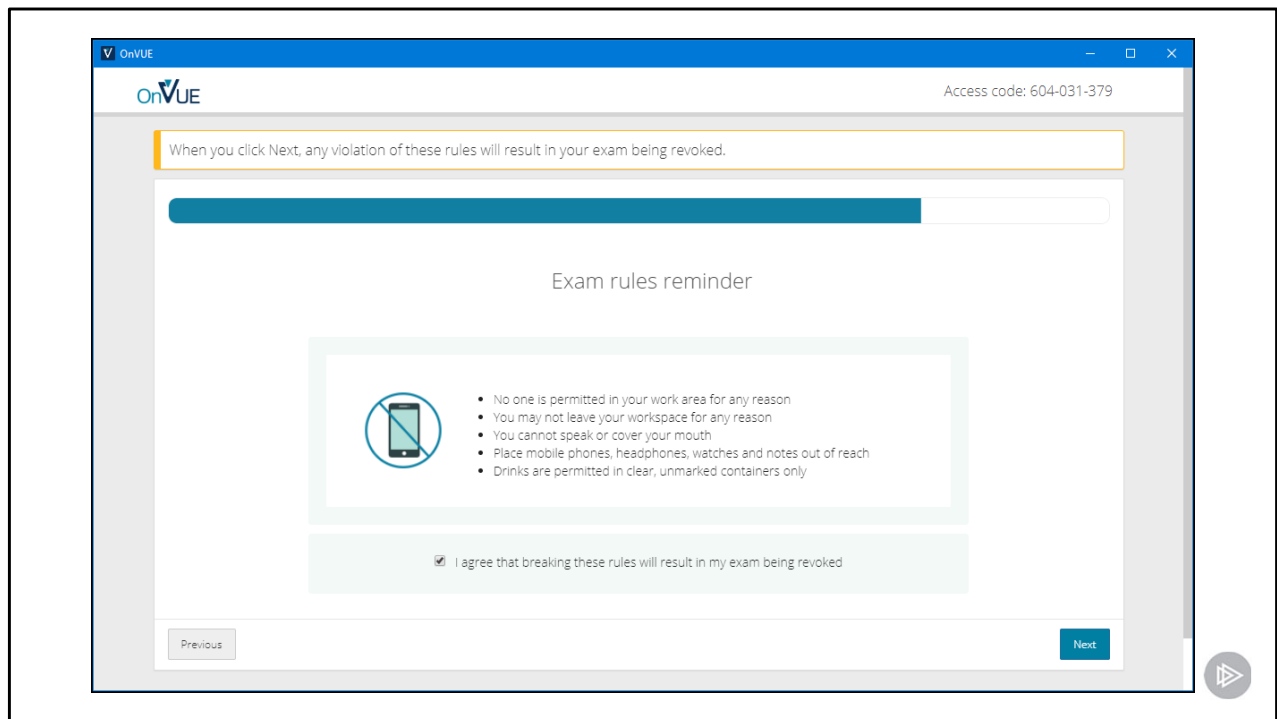
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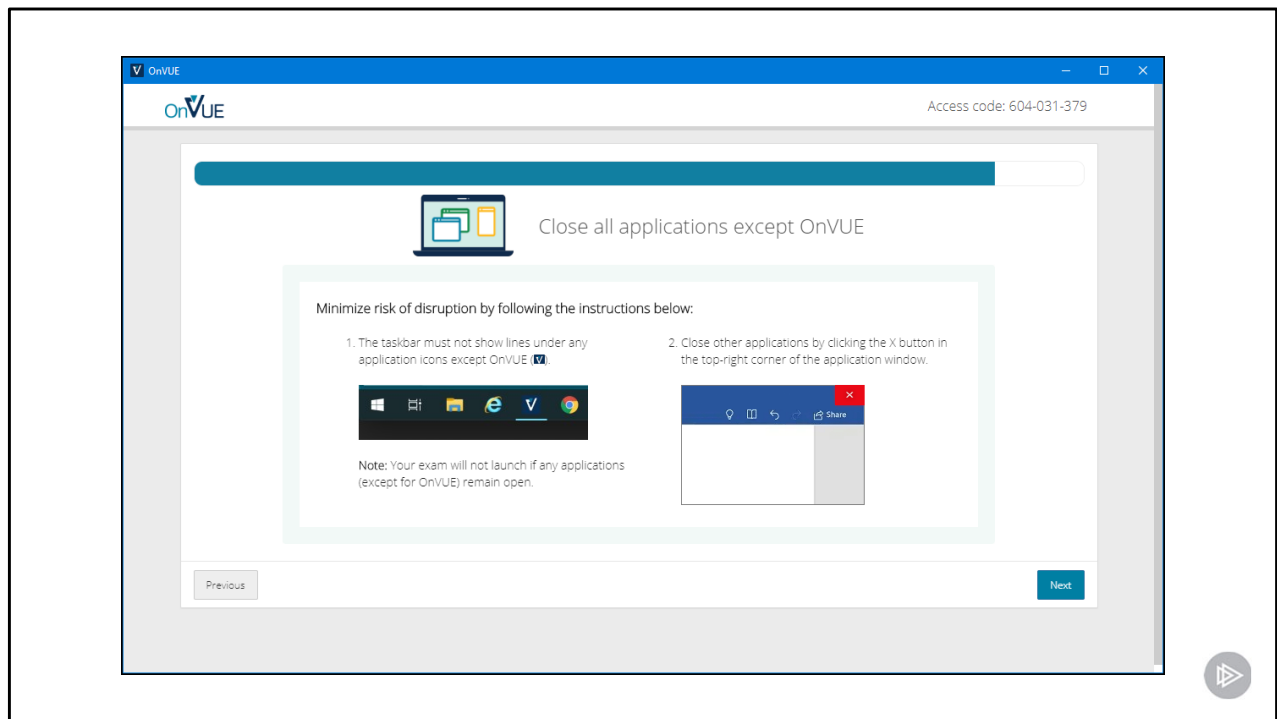
















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**Microsoft Certified: Azure Administrator Associate**  
Issued by [Microsoft](#)

Earning Azure Administrator Associate certification demonstrates understanding of services across the IT lifecycle, and ability to take requests for infrastructure services, applications, and environments. Candidates for this [More...](#)

**Skills**

- Azure
- Cloud Architecture
- Cloud Computing
- Cloud Data
- Cloud Developer
- Cloud Infrastructure
- Cloud Networking
- Cloud Platform
- Cloud Security
- Cloud Services
- Cloud Storage
- Cloud Technologies
- Powershell
- Virtualization

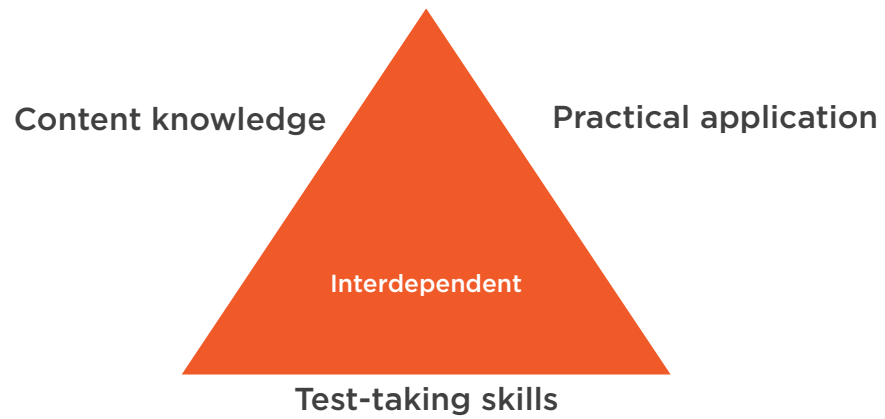
[Additional Details](#)



# Your Cert Study Strategy

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## Tim's Cert Study Pyramid



# Pluralsight Free Azure Partnership Content

The screenshot shows the Pluralsight website's landing page for the 'Rock Your Azure Role' campaign. The page has a dark theme with a pink header and a pink banner. The header includes the Pluralsight logo, navigation links for Products, Courses, View plans, and Resources, and a search bar. The pink banner features the text 'LOVE AZURE?' and 'Access sessions and content you missed at Microsoft Ignite 2019', with a 'DIVE IN' button. Below the banner, the 'Microsoft Azure' logo is displayed, followed by the heading 'ROCK YOUR AZURE ROLE'. A paragraph explains the partnership: 'Pluralsight and Microsoft have partnered to help you become an expert in Azure. With skill assessments and over 200+ courses, 40+ Skill IQs and 8 Role IQs, you can focus your time on understanding your strengths and skill gaps and learn Azure as quickly as possible.' A 'REGISTER AND START FREE' button is present. A pink bar below the text reads 'LEARN IN YOUR LANGUAGE' and 'Watch courses with translated subtitles. Use the [CC] closed caption in the course video player to select subtitles in your language.' The 'Choose your role' section features three cards: 'Microsoft Azure Administrator', 'Microsoft Azure Developer', and 'Microsoft Azure Solution Architect', each with a 'Skill IQ' icon. A play button icon is visible in the bottom right corner of the screenshot.

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

## Practice Exams



Kaplan IT certification practice exams are part of Pluralsight



MeasureUp.com



Whizlabs.com



# Kaplan Practice Exam

AZ-103 Exam Simulation  
QBank Quiz May 7, 2020

Dashboard

QBank Home

Score: 0% 00:00:29

Question #5 of 50

Question ID: 1196030

You need to enable Multi-Factor Authentication (MFA) for several users. You create the following script:

```
$users = "Cody.King@nutex.com","Derek.Sch11ls@nutex.com","Brian.Simmons@nutex.com"
foreach ($user in $users)
{
    $st = A -TypeName Microsoft.Online.Administration.StrongAuthenticationRequirement
    $st.RelyingParty = "https://..."
    $st.State = B ""
    $sta = @($st)
    C er -userPrincipalName $user -StrongAuthenticationRequirements $sta
}
```

Match the correct code to the corresponding letter.

Code	A	B	C
New-Object			
Enabled			
Set-MsolUser			
Set-MsolUserPassword			
Set-MsolUserPrincipalName			
Enforced			

Reset Ok





## Your marching orders

### Perform a self-appraisal

- What's your Azure specialty
- What's your theory/practice balance
- What's your best learning style

### Develop a study plan

- Make an OD outline
- Use MS Learn for hands-on practice
- Don't forget about practice exams

### Pass the exam

- Find a delivery method that works for you
- Be proactive and prepared (ID, etc.)
- Breathe!



## Looking Back, Looking Ahead



Shifting Your  
Paradigm



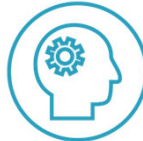
Get Up to Speed with  
Azure IaaS



Get Up to Speed with  
Azure PaaS



Sprinkle Some Azure  
DevOps on It



Skills Development:  
Theory and Practice



Skills Development:  
Certification



## Session 6 Homework (Yes, Even Still!)



Work through practice exams as you develop your Azure Administrator skills



Teach your new Azure Administrator skills to your colleagues



Consider registering for the AZ-103 or AZ-104 exam and earning your Azure Administrator badge



Questions?





# Thanks so much!

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