CERTIFICATIONS IN THE CLOUD ERA

A BRIEF CHAT ABOUT TRAINING AND CAREERS IN THE CLOUD

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THE RUN DOWN ON MICHAEL BENDER

Technologist, Teacher of Things, and Community Leader



- Author Evangelist at Pluralsight
- President and co-found of The Krewe User Groups https://www.facebook.com/groups/thekrewe
- 20+ years of experience in the IT Pro Space
- Main Focus: PowerShell, Automation, Infrastructure as Code, Azure, VMware, and Windows Server



@michaelbender



https://www.pluralsight.com/authors/michael-bender/



WHAT'S AHEAD



- Should You Get Certified?
- How Do You Pick a Certification?
- Where Do You Start Learning?
- Resources for talk available at https://bit.ly/mb-nwcug





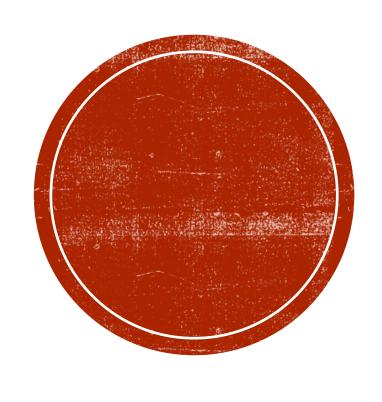


GET CERTIFIED (OR AT LEAST STUDY FOR ONE)

- Prove to yourself what you know
- Makes your resume and experience stand-out
- It's a great way to motivate yourself
- It provides a concrete set of skills to learn



IF YOUR HIRING FUNCTION DOES NOT WEED OUT UNQUALIFIED APPLICANTS YOU HAVE MORE PROBLEWS THAN HIRING SOMEONE WITH PAPER **2.1.1172**





Barriers to Certification



Time Cost Fear

Virtualization and cloud computing certifications pay an average salary of \$136,659 in 2020, increasing over last year's average salary of \$127,494 in 2019.

"

- Forbes 15 Top Paying IT Certifications In 2020
- https://www.forbes.com/sites/louiscolumbus/2020/02/10/15top-paying-it-certifications-in-2020/#5f5e0750358e



REAL WORLD RESULTS

- Base Salary \$75k
- \$750 in exam costs
 - Online Training
 - Cloud Spend
 - Exam Prep
 - Exam
- 10% Raise with Certification
- Over 5 Years = \$37500







JOB ROLES in the Cloud







Developer



Solutions Architect



Security Engineer

CHOICES ARE WANY





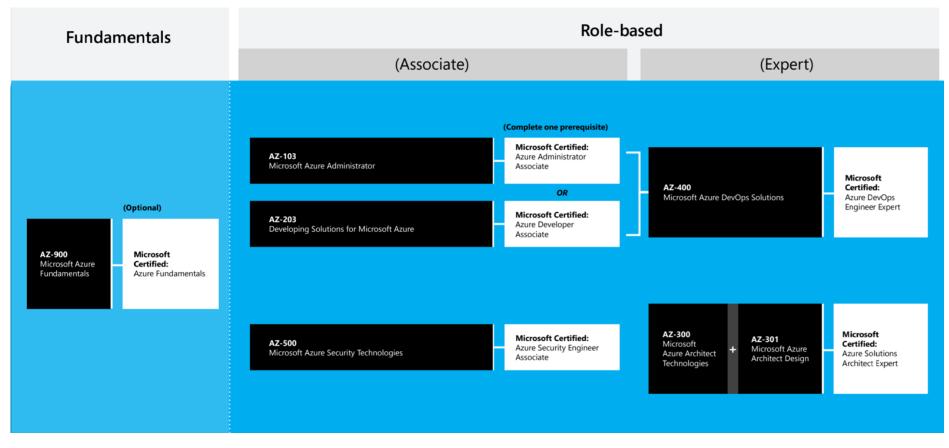


Microsoft Azure

Amazon Web Services (AWS)

Google Cloud Platform (GCP)

AZURE CERTIFICATION PATH

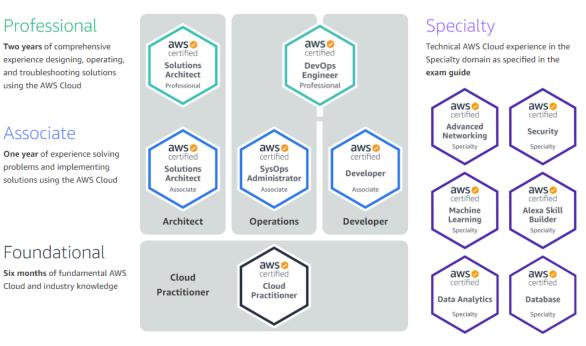




AMAZON CERTIFICATION PATHS

Available AWS Certifications

Select a certification badge below to learn more.



Explore what's coming soon »



GOOGLE CLOUD CERTIFICATION PATHS

Associate Recommended experience: 6+ months building on Google Cloud.	Cloud Engineer		
Professional Recommended experience: 3+ years industry experience, including 1+ years on Google Cloud.	Cloud Architect	Cloud Developer	Data Engineer
	Cloud DevOps Engineer	Cloud Security Engineer	Cloud Network Engineer
	Collaboration Engineer		
User certification			
Recommended experience: Completion of Applied Digital Skills training course and G Suite Essentials quest, and 1+ months on G Suite.	G Suite		



COMMON SKILLS-BUILDING PATH

Fundamentals / Foundational

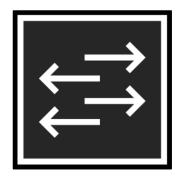
Engineer / Associate

Architect/Expert Professional



WHERE DO I START LEARNING?

PATH TO SUCCESS



Choose a path



Acquire knowledge



Get hands-on experience



Prove your skills

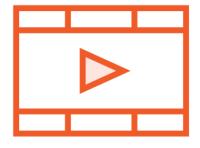


KNOW YOUR LEARNING STYLE



Books and documentatio

n



Online content



Classroom training



Hands-on experience





Role-based certifications

Earn a technical certification that shows you are keeping pace with today's technical roles and requirements. Skill up, prove your expertise to employers and peers, and get the recognition and opportunities you've earned. Download our guide to all role-based certifications.

EXPLORE ALL CERTIFICATIONS

Explore the most sought after job roles

Select a job role to discover certifications paths.









Developer

Microsoft developers design, build, test, and maintain cloud solutions.

Developer Certifications >

Administrator

Microsoft administrators implement, monitor, and maintain Microsoft solutions.

Administrator Certifications >

Solutions Architect

Microsoft solutions architects have expertise in compute, network, storage, security.

Solution Architect Certifications >

Functional Consultant

Functional consultants leverage Microsoft Dynamics 365 to anticipate and plan for customer needs.

Functional Consultant Certifications >

Explore Microsoft Role-Based Certs at Microsoft.com

https://bit.ly/2OTIUpV



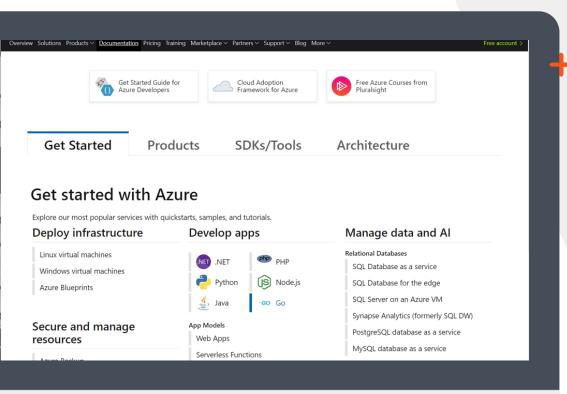
jective Domain	Sub-Domain	Task / Topic	Confide	nce Lev	vel
anage Azure subscriptions and resources (15-20%)			0.00%	6	
Manage Azure subscriptions			0.00%	6	
	_	assign Administrator permissions	No Idea		
		configure cost center quotas and tagging	No Idea		
		configure policies at Azure subscription level	No Idea		
Analyze resource utilization and consumption			0.00%	6	
		configure diagnistic settings on resources	No Idea		
		create baseline for resources	No Idea		
		create and test alerts	No Idea		
		analyze alerts across subscription	No Idea		
		analyze metrics across subscription	No Idea		
		create action groups and action rules	No Idea		
		monitor for unused resources	No Idea		
		monitor spend	No Idea		
		report on spend	No Idea		
		utilize log queries in Azure Monitor	No Idea		
		view alerts in Azure Monitor	No Idea		
Manage resource groups			0.00%	6	
		use Azure policies for resource groups	No Idea		
		configure resource locks	No Idea		
		configure resource policies	No Idea		
		identify auditing requirements	No Idea		
		implement and set tagging on resource group	No Idea		
		move resources across resource groups	No Idea		
		remove resource groups	No Idea		
Manage role based access control (RBAC)			0.00%	6	
		create a custom role	No Idea		
		configure access to Azure resources by assign	No Idea		
		configure management access to Azure, troub	No Idea		
plement and manage storage (15-20%)			0.00%	6	

Assess your skills by Objective

- Determine where you need to focus
- Build up your weaknesses
- Lean on your strengths
- Remember: You cannot know everything so focus on

Spreadsheet available from build5nines.com at https://build5nines.com/free-oss-exam-self-assessment-tool/





Get the Technical Knowledge at Docs.Microsoft.com

https://docs.Microsoft.com/azure



Exercise Create a vvillaovys virtaa

machine

10 minutes

This module requires a sandbox to complete. A <u>sandbox</u> gives you access to Azure resources. Your Azure subscription will not be charged. The sandbox may only be used to complete training on Microsoft Learn. Use for any other reason is prohibited, and may result in permanent loss of access to the sandbox.

Sign in to activate sandbox

Recall that our company processes video content on Windows VMs. A new city has contracted us to process their traffic cameras, but it's a model we've not worked with before. We need to create a new Windows VM and install some proprietary codecs so we can begin processing and analyzing their images.

Create a new Windows virtual machine

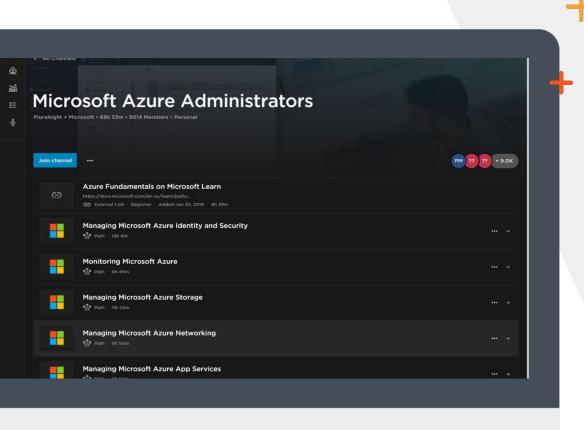
We can create Windows VMs with the Azure portal, Azure CLI, or Azure PowerShell. The easiest approach is the portal because it walks you through the required information and provides hints and helpful messages during the creation of the VM.

1. Sign into the Azure portal 🖾 using the same account you activated the sandbox with.

Hands-on Skills at Microsoft Learn

https://docs.Microsoft.com/Learn



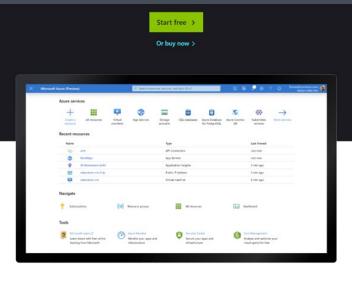


Free Azure Training from Pluralsight.com

- 130+ free video courses
- Covers 8 Azure Certification learning paths

http://bit.ly/azure-ps





What do I get?

With your Azure free account, you get all of this—and you won't be charged until you choose to upgrade.

Free Microsoft Azure account

- 30 days and \$200 of credit
- Use Wisely
- Use DevLab options for resources like VMs
- Shutdown/Delete resources when you are done
- Group all hands-on resources in a resource group for easy deletion

https://azure.Microsoft.com/free



OTHER LEARNING METHODS

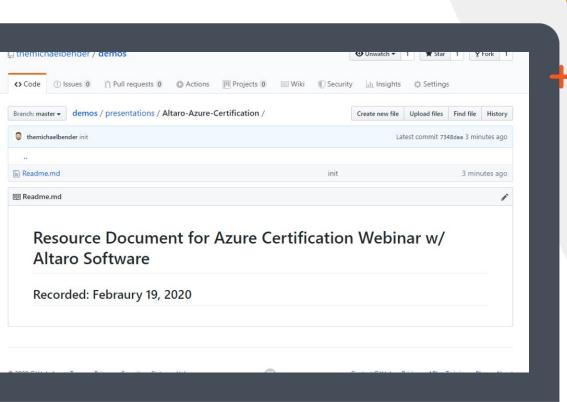
- Training Books
- Classroom Training
- •Hands-On Experience
- •Teach what you know!
- Become an Advocate of the Technology







CERTIFICATION TIPS AND ADVICE



Resources for studying and certification

- All Links from this talk
- Blogs from industry experts on cert prep

All Resources available at http://bit.ly/azcert2020





Tips for Certification Exams

Understand how products work together

Scenario questions are a big part of the exam

Know how to do all.the.things in the UI and the CLIs supported by each platform

Use a Practice test

DO work with the product

DON'T use a braindump



CERT EXAM QUESTION STRATEGY



- Read the question twice without making a judgement
- Read the ALL of the answers
- Work to eliminate answers that do not fit the question information
- Exam will use distractors that may work in a different scenario
- If you don't have a solid answer, pick one and come back
- Mark questions for review if you are not 100%



Wrap-Up and Q & A



THANKS FOR HAVING ME!

• Please reach out if you have any questions!





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https://www.pluralsight.com/authors/michael-bender/

Resources for talk available at https://bit.ly/mb-nwcug

