



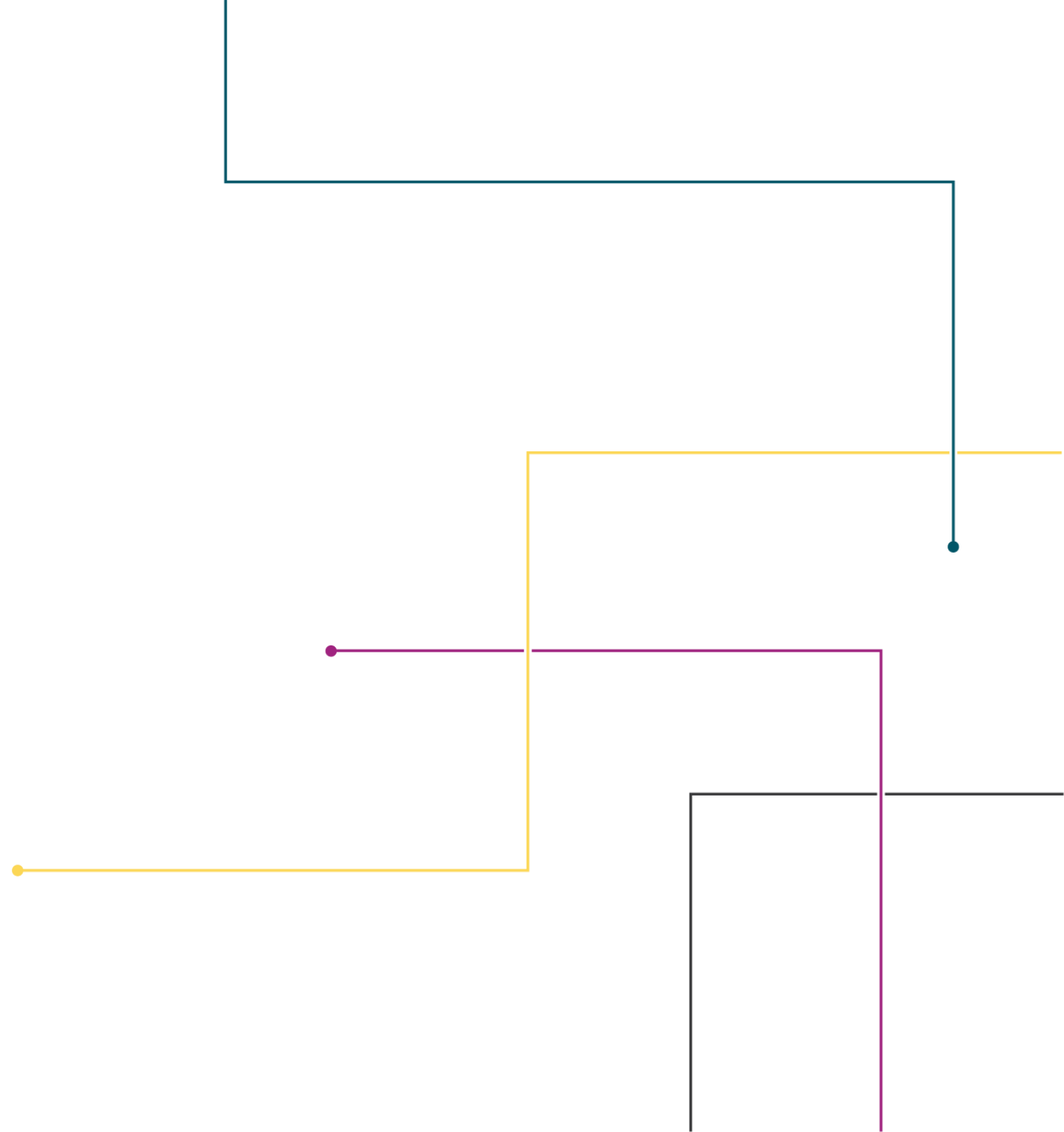
CLOUD SERVICES

ROB THARP
Cloud Services Manager

CHRIS WILLIAMS
Cloud Services Architect

VIRTUAL SERVICES FAIR FOLLOW UP Q&A

11/09/2021 & 11/16/2021



CLOUD COMPUTING

- Infrastructure as a service (IaaS)
 - Compute and storage services provided and managed by a 3rd party provider
 - Virtual Machines, File shares, Networking
- Platform as a service (PaaS)
 - Managed database instances, message queues , functions, AI and ML platforms
- Software as a service (SaaS)
 - Not offered by cloud services but overseen by ECOS process

SERVICES

- All current Cloud services offered by VITA are managed and provided through our Server Storage and Data Center Provider (SSDC) Unisys.
- The SSDC is responsible for managing each of the Cloud Service Platforms (CSP).
- Cloud services are currently offered on 3 major platforms,
 - Amazon Web Services (AWS),
 - Oracle Cloud Infrastructure (OCI)
 - Microsoft's cloud platform (Azure).

WHY

- Rapid Deployment (Relatively)
- Innovative services and capabilities
- Short term or no commitments
- Potential cost savings


SERVICE CATALOG

- Compute services
- Storage services
- Networking and data center services (e.g. monitoring and auditing capabilities)
- DevOps services – (AWS and Azure)
- Data analysis services (data lake and catalog services)
- VITA will continuously make new services available as required
- All Services that are considered FedRamp Moderate should be available


ORDERING

Services are ordered through the [Key Stone Edge service catalog](#) as a Request For Service (RFS). Information should be provided about the number and types of resources requested.


TEBS eVA Statewide IT Contracts IT Service Rates IT Catalog Services

 Service Catalog Knowledge Request Assistance


Home > Service Catalog > **Cloud Services**



Amazon Web Services (AWS)
The cloud service is provided as a means to access computing services such as servers, networking, storage, database, deployment, developer tools and software. The hardware, operating system (OS), software, networking features chosen provide high availability, redundancy, security and service options. AWS must be implemented with Direct Connect.



Microsoft Azure Infrastructure Service
The cloud service is provided as a means to access computing services such as servers, networking, storage, database, deployment, developer tools and software. The hardware, operating system (OS), software, networking features chosen provide high availability, redundancy, security and service options. Azure must be implemented with ExpressRoute.



Oracle Cloud Infrastructure (OCI)
The cloud service is provided as a means to access computing services such as servers, networking, storage, database, deployment, developer tools and software. The hardware, operating system (OS), software, networking features chosen provide high availability, redundancy, security and service options. OCI must be implemented with Oracle FastConnect.

RATES

- Cloud services are charged on a consumption model.
- Pricing can be found from each provider.(Pricing links are on the included slides)
- Discounts up to 40% or more for some services from AWS and Azure are offered for an annual commitment
- Vita Charge Back Rates
 - <https://www.vita.virginia.gov/media/vitavirginiagov/services/pdf/VITA-FY22-Chargeback-Rates-9-24-21.pdf>

RATES

- Agency account set-up:
 - \$564.50 per agency/only charged once per agency
 - Setup required to add a new Agency into the Virtual Data Center landing zone
- Managed service account set-up:
 - \$1,129.00 per project
 - Charged per cloud environment/agency
- Stealth installation:
 - \$195.88 per instance
 - Set-up cost for stealth service
- Migration and consulting:
 - Labor rates
 - No mark-up is applied to material costs if required

RFS

- Agencies should provide enough information in the RFS to allow for a complete solution
- The SSDC and MSI should work with the Agency to validate the request
- All 3 cloud providers have resources and are willing to help Agencies with their RFS submission
- The proposed solution and NTP will be based on budgetary amounts
 - Agencies should work with the SSDC to budget for planned growth
 - Agencies should expect monthly costs to fluctuate slightly

AWS

- Leverages AWS Commercial Cloud (Not GOV Cloud)
- Pricing Calculator <https://calculator.aws/>
- FedRamp Services <https://aws.amazon.com/compliance/services-in-scope/>
- Industry standard with a wide variety of IaaS and PaaS service offerings.

AWS TRAINING FOR COMMONWEALTH OF VIRGINIA AGENCIES

- AWS is holding 60-minute Introduction to AWS Services sessions every Tuesday and Thursday at 12:00 pm beginning the week of November 15th through December 16th* (use URL below to join).
- The introductory sessions will provide an overview of AWS services and include topics like:
 - Getting Started with AWS
 - Getting Value from Your Data on AWS (Data Analytics, AI/ML)
 - Modernizing Applications for the AWS Cloud
- AWS is also offering AWS Immersion Days by request for agencies that have projects they want to build in the AWS cloud. The training provides agencies with in-depth skills specific to delivering their specific project. AWS Immersion Days can provide a firm foundation for executing Proof of Concepts (POCs).

Additional Information

- AWS training meeting info - WebEx Meeting: <https://robertwest-509.my.webex.com/meet/rwest12>
- Robert West, Enterprise Account Executive (wstrobe@amazon.com)
- Milty Brizan, Solution Architect (brizanm@amazon.com)

*No training on November 25th, Thanksgiving Day. Additional sessions are being scheduled for 2022.

AWS TRAINING FOR COMMONWEALTH OF VIRGINIA AGENCIES

Getting Started with AWS

This AWS Fundamentals Course is designed to teach you the core concepts you need to work effectively within AWS. A cloud-native paradigm of building infrastructure can be a radical departure from the traditional on-premises way of doing things. The AWS Fundamentals Course is designed to help you get started with AWS regardless of your experience. In this course, we will teach you about the [five pillars of AWS](#), mental models to use when thinking about the cloud, and key concepts that will be applicable across any service you end up using.

Getting Value from Your Data on AWS

Learn about cloud-based Data solutions such as Amazon Lake Formation, Amazon Redshift, Amazon QuickSight, and the rest of the AWS Data platform. You'll discover how to process data using the broad ecosystem of tools. The course also teaches you how to create Big Data environments and leverage best practices to design Data environments for security and cost-effectiveness.

Modernizing Applications for the AWS Cloud

Modernizing your business applications is an inevitable aspect of doing business. With AWS, you get to decide on how to migrate your applications and at what pace, leveraging the industry's most reliable infrastructure with the deepest set of services. Modernizing your applications with AWS you can reduce costs, gain efficiencies and make the most of your existing investments.

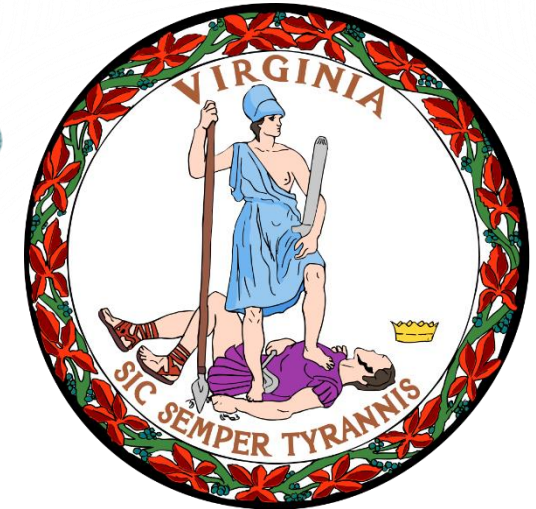
ORACLE CLOUD INFRASTRUCTURE (OCI)

- Only Current GOV Cloud offering
- Pricing Calculator <https://www.oracle.com/cloud/cost-estimator.html>
- Compliance <https://www.oracle.com/cloud/compliance/>
- Good for existing Oracle workloads
- May require or be best implemented using current Oracle versions



ORACLE CLOUD INFRASTRUCTURE (OCI) CUSTOMER AND PARTNER TRAINING OPTIONS COMMONWEALTH OF VIRGINIA

Nov 2021



GOOD SESSIONS FOR THOSE WITHOUT ANY ORACLE INSTALL – DATES AND TIMES TO BE SCHEDULED WITH VITA

- **Oracle Cloud Infrastructure for Non-Oracle workloads** - 1 Hour
 - Migrate custom and third-party applications to Oracle Cloud Infrastructure (OCI) with minimal rearchitecture or reintegration and implement infrastructure that [delivers higher performance at lower cost than alternatives](#).
- **Oracle Integration Cloud for your Non-Oracle Applications** – 1 Hour
 - [Oracle Integration Cloud](#) allows you to seamlessly integrate applications and data by leveraging an extensive library of pre-built adapters to connect with virtually any application, service, or database.
- **Oracle Cloud VMware Service** – 1 Hour
 - Oracle Cloud VMware Solution **allows customers to move VMware workloads to Oracle Cloud without** having to modify them. Customers gain scale and agility while maintaining continuity with existing VMware-based tools, processes, and policies. Migration of on-premises VMware workloads to a Oracle Cloud VMware Solution is seamless.
- **Oracle Analytics Cloud** – 1 Hour
 - Accelerate the analytics process and make decisions with actionable information. A code-free drag-and-drop interface enables anyone in the organization to build interactive [data visualizations](#) without specialized skills or programming. Oracle Analytics Cloud is a one-stop shop for strategic data analysis, combining a user-friendly interface with the speed and performance that your business requires.



- **Oracle Database Cloud – 1 Hour**

- The next-generation cloud designed to run any application, faster and more securely, for less. We accelerate migrations of existing enterprise workloads, deliver better reliability and performance for all applications, and offer the complete services customers need to build innovative cloud applications. There are six key reasons customers are choosing Oracle Cloud Infrastructure (OCI) for all their cloud workloads.

- **Oracle Autonomous Database: Self-Driving, Self-Securing and Self-Repairing - 1 Hour**

- Oracle Cloud provides a set of data management services built on self-driving Oracle Autonomous Database technology to deliver automated patching, upgrades, and tuning, including performing all routine database maintenance tasks while the system is running, without human intervention.

- **Oracle Integration Cloud for your Oracle applications – 1 Hour**

- Oracle Integration is an enterprise connectivity and automation platform for quickly modernizing applications, business processes, APIs, and data for Oracle and Non-Oracle environments.



IN DEPTH TRAINING ON ORACLE CLOUD INFRASTRUCTURE

FOCUSED FOR THOSE CURRENTLY MIGRATING TO ORACLE CLOUD

17

- **Free OCI Training and Certifications until 12/31/21 -**
 - [Register Now](#)
- **Oracle Cloud Infrastructure Foundations - [Click Here to Learn More](#)**
- **Description** - This course will help you in developing a strong foundation in cloud computing, core concepts and features of Oracle Cloud Infrastructure (OCI).
- **Benefits to You** - Describe the key features and components of OCI and Identify the core OCI service offerings.
- Click the following links to listen to a resent replay of a live session for this course. [Part 1](#) & [Part 2](#)
- **Oracle Cloud Infrastructure Architect Associate - [Click Here to Learn More](#)**
- **Description** - Develop key insights into key concepts and features of Oracle Cloud Infrastructure (OCI). Identify how the OCI's global distribution of infrastructure components can assist your enterprise.
- **Benefits to You** - Kickstart your journey on Oracle Cloud by getting to know its Architecture and User Management Know more about the OCI Compute and Storage options
- - Deep dive into the Databases on Oracle Cloud and their applications.
- Click the following links to listen to a resent replay of a live session for this course. [Part 1](#) & [Part 2](#)
- **Oracle Live Labs (hands-on prepackaged labs): [LiveLabs Home](#)**



- Oracle Live Labs (hands-on prepackaged labs): [LiveLabs Home](#)
 - [Get Started with Oracle Cloud Infrastructure Core Services Workshop](#)
 - [Identity and Access Management Workshop](#)
 - [OCI Command CLI Playground Workshop](#)
 - [Using Events and Notification Workshop](#)
 - [Using Oracle Cloud Infrastructure Block Volumes Workshop](#)
 - [Creating a Resource Manager Stack Workshop](#)
 - [Get Started with Audit Workshop](#)
 - [Create an Object Storage Service Workshop](#)
 - [EM - Database Performance Management: Find-Fix-Validate Workshop](#)
 - [Disaster Recovery: Pilot Light - App & DB Workshop](#)
 - [Hitchhiker's Guide for Upgrading to Oracle Database 19c Workshop](#)
 - [Creating a Resource Manager Stack Workshop](#)
- **Other Resources**
 - Oracle Code Innovate (developer workshops): [Development Event](#)
 - Oracle Designer Toolkit: [Design OCI Architecture Tool](#)
 - OCI for AWS experts: [AWS Service Comparisons to OCI](#)
 - OCI for Azure experts: [Azure Service Comparisons to OCI](#)
 - CIS Benchmark: [Securing Oracle Cloud Infrastructure](#)
 - CIS Github Repository: [CIS Benchmark Github Repository](#)



Thank You

Loren Maughlin

Cloud Platform Executive – State of Virginia

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Email: Loren.Maughlin@Oracle.com

AZURE

- Pricing Calculator <https://azure.microsoft.com/en-us/pricing/calculator>
- Compliance <https://docs.microsoft.com/en-us/azure/azure-government/compliance/azure-services-in-fedramp-auditscope#azure-government-services-by-audit-scope>
- Can leverage the Hybrid licensing benefit and may reduce MS licensing costs vs other cloud platforms



Enterprise Skills Initiative Virginia Government

KEVAN PERKINS
TECHNOLOGY STRATEGIST
KEVANP@MICROSOFT.COM

The Enterprise Skills Initiative (ESI)

Helping you sharpen your team's technical skills and knowledge of Microsoft platforms and solutions



**Tech intensity
for your team**



Skills to support your digital transformation



Multiple options to learn in a style that fits you best



Ensuring technical training and certification is relevant, accessible, and effective

Your ESI program – What's included

Your learning benefits



Microsoft-delivered training events (unlimited)

Instructor-led training delivered by Microsoft Trainers, covering a comprehensive catalog of Microsoft platforms and solutions (Use/Lose)



Microsoft Virtual Training Day events (unlimited)

In-depth, virtual training events to guide you toward the many possibilities for career and organizational impact today and tomorrow



Microsoft Certifications (500)

Globally recognized, industry-endorsed evidence of skills mastery



Microsoft Official Practice Tests **New!** (500)

All objectives of the exams are covered in depth, so your team can be ready for any question on the exams they're taking



Exam Prep sessions (unlimited)

Instructor-led sessions to help your learners prepare for the Microsoft Certification exams they're taking



Microsoft Learn self-paced learning (unlimited)

Interactive way to gain knowledge at your own pace and on your own schedule

A great experience for you and your team

- A Training Program Manager working with you, so you get the most out of the program
- The ESI Customer Experience Portal (CxP), for you to manage your learning benefits
- The ESI Learner Experience Portal (LxP), the one-stop shop for your learners to find training and certifications

Welcome to the Learner Experience Portal (LxP): <https://esi.microsoft.com/>



LEARN ON YOUR OWN
Microsoft Learn

Explore a topic in-depth through guided learning paths and interactive, hands-on modules.

[Explore](#)



LEARN THE FUNDAMENTALS
Microsoft Training Days

Sign up for digital events with live moderators supporting attendee questions.

[Explore](#)



INSTRUCTOR-LED TRAINING
Microsoft-Delivered Courses

Enroll in role-based and specialty instructor-led virtual training delivered by Microsoft Certified Trainers.

[Explore](#)



INSTRUCTOR-LED TRAINING
Learning Partner Training

Enroll in discounted instructor-led training, delivered by authorized Microsoft Learning Partners, at a reduced cost.

[Register](#)



PREPARE FOR AN EXAM
Exam Preparation

Exam Prep sessions provide practical details on how best to prepare for your Microsoft Certification exams.

[Explore](#)



GET CERTIFIED
Microsoft Certifications

Advance your career, earn recognition, and validate your technical knowledge through accredited Microsoft Certifications.

[Schedule](#)

Video Resources

Training Portal Login with COV Email:

https://aka.ms/LxPLogin_AAD

Tour the Training Portal

<https://aka.ms/LxPWalkthroughVideo>

Schedule your voucherless exam!

<https://aka.ms/LxPEXamDiscountVideo>

Support

Log Case: <https://esisupport.microsoft.com/>

Email: TechSkillsSupport@Microsoft.com

Microsoft Azure training

aka.ms/ESIAzureTrainingJourney

	Infra & Apps		Data & AI		
Courses related to certification	Fundamentals Foundational understanding of technology	Azure Fundamentals (AZ-900)	Azure Fundamentals (AZ-900)	Azure AI Fundamentals (AI-900)	
	Role-based Technical skills required to perform a job	Azure Administrator (AZ-104)	Azure Developer (AZ-204)	Azure Database Administrator (DP-300)	Azure AI Engineer (AI-102)
		Azure Administration for AWS SysOps ¹ (AZ-010)	Azure solutions for AWS developers ¹ (AZ-020)	Azure Data Engineer (DP-203)	Azure Data Scientist (DP-100 + DP-090)
Azure Security Engineer (AZ-500)		DevOps Engineer (AZ-400)	Data Analyst (DA-100)		
Azure Stack Hub Operator (AZ-600)					
Azure Solutions Architect (AZ-303 + AZ-304)					
Azure technologies for AWS architects ¹ (AZ-030)		Azure Networking (AZ-700) Coming Soon			
Specialty Deep technical skills managing industry solutions	Azure for SAP Workloads (AZ-120)	Azure IoT Developer (AZ-220)			
	Azure Virtual Desktop (AZ-140)				
Other courses only Delivered by Learning Partners		Windows Server 2019 Hybrid and Azure IaaS ¹ (WS-012)	Migrating Application Workloads to Azure ¹ (WS-050)	Migrate SQL Workloads to Azure ¹ (DP-050)	
		Azure Stack HCI ¹ (WS-013)		Migrate NoSQL Workloads to Azure Cosmos DB ¹ (DP-060)	
				Migrate Open Source Data Workloads to Azure ¹ (DP-070)	

¹Training delivered by Microsoft Learning Partners

FY22 Microsoft Virtual Training Days (VTD's)

Event Catalog	Apps & Infra	Data & AI	App Dev	Modern Work	Security, Compliance & Identity	Business Applications	
	Azure VTDs			Microsoft 365 VTDs		Security VTDs	Dynamics 365 VTDs
	<ul style="list-style-type: none"> • Fundamentals* • AI Fundamentals* • DevOps with GitHub • Migrating On-Premises infrastructure and Data • Modernize .NET App • Linux OSS Database Migration • Implementing Hybrid Infrastructure 	<ul style="list-style-type: none"> • Data Fundamentals* • Deliver Integrated Analytics with Azure Synapse 	<ul style="list-style-type: none"> • Cloud Native Apps NEW • Windows Virtual Desktop NEW • Well Architected Framework NEW 	<ul style="list-style-type: none"> • Enable Hybrid Work with Microsoft Teams • Building Microsoft Teams Integrations and Workflows • Managing Windows Devices NEW • Manage your Frontline Workforce NEW • Intro to Microsoft Viva Topics and Insights NEW • Microsoft Teams Calling and Voice NEW • Intro to Microsoft Viva Connections and Learning NEW 	<ul style="list-style-type: none"> • Security, Compliance. & Identity Fundamentals* NEW • Modernize Security and Defend Against Threats NEW • Zero Trust Foundations NEW • Protect Data and Manage Risk NEW 	<ul style="list-style-type: none"> • Fundamentals (CRM)* NEW • Fundamentals (ERP)* NEW • Build a Resilient Supply Chain • Activate Digital Selling • Enable Always on Service NEW • Manage Finance & Operations NEW 	
						Power Platform VTDs	
						<ul style="list-style-type: none"> • Fundamentals* • Rapidly Build Apps • Automate Business Processes NEW 	

*Discounted exam provided for these events

We are part of your team in this journey

The Training Program Manager (TPM) is your partner, helping you identify learning goals and combining your learning benefits to create a skilling plan customized to your organization

	The team	Responsibility
Your organization	 Executive Sponsor (ES)	Learners' advocate ensuring commitment and availability for training & certifications
	 Point of Contact (PoC)	Lands and communicates the program in the organization
The ESI program	 Training Program Manager (TPM)	Builds the upskilling plan and designs the learning journeys

Continuous improvement so you get the most out of the program

- The TPM and the PoC track your upskilling progress with the CxP and the ESI reporting
- The ES is periodically informed about progress and advised on opportunities to improve participation in the program



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Microsoft Azure training and certification (1)

Certification	Role Description	Exam	Skills Measured	Microsoft Official Course	MOC duration
Azure Administrator Associate	Azure Administrators implement, manage, and monitor an organization's Microsoft Azure environment	AZ-104: Microsoft Azure Administrator	aka.ms/az-104examguide	AZ-104T00: Microsoft Azure Administrator	4 days
				AZ-010T00: Azure Administrator for AWS SysOps	2 days
Azure Security Engineer Associate	Azure Security Engineers implement security controls and threat protection, manage identity and access, and protect data, applications, and networks in cloud and hybrid environments as part of an end-to-end infrastructure	AZ-500: Microsoft Azure Security Technologies	aka.ms/az-500examguide	AZ-500T00: Microsoft Azure Security Technologies	5 days
Azure Stack Hub Operator Associate	Azure Stack Hub operators provide cloud services to their end users or customers from within their own datacenter using Azure Stack Hub	AZ-600: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub	aka.ms/az-600examguide	AZ-600T00: Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack Hub	
Azure Solution Architect Expert	Azure Solution Architects design and implement solutions that run on Microsoft Azure, including aspects like compute, network, storage, and security	AZ-303: Microsoft Azure Architect Technologies	aka.ms/az-303examguide	AZ-303T00: Microsoft Azure Architect Technologies	5 days
				AZ-030T00: Microsoft Azure technologies for AWS architects	4 days
		AZ-304: Microsoft Azure Architect Design	aka.ms/az-304examguide	AZ-304T00: Microsoft Azure Architect Design	4 days

Microsoft Azure training and certification (2)

Certification	Role Description	Exam	Skills Measured	Microsoft Official Course	MOC duration
Azure for SAP Workloads Specialty	Architects or engineers for Azure for SAP Workloads have extensive experience and knowledge of the SAP system landscape and industry standards that are specific to the initial migration or integration and the long-term operation of an SAP solution on Microsoft Azure	AZ-120: Planning and Administering Microsoft Azure for SAP Workloads	aka.ms/az-120examguide	AZ-120T00: Planning and Administering Microsoft Azure for SAP Workloads	4 days
Azure Virtual Desktop Specialty	Administrators for Azure Virtual Desktop plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure	AZ-140: Configuring and Operating Azure Virtual Desktop	aka.ms/az-140examguide	AZ-140T00: Configuring and Operating Azure Virtual Desktop	4 days
Azure Developer Associate	Azure Developers design, build, test, and maintain cloud applications and services	AZ-204: Developing Solutions for Microsoft Azure	aka.ms/az-204examguide	AZ-204T00: Developing Solutions for Microsoft Azure	5 days
				AZ-020T00: Microsoft Azure solutions for AWS Developers	3 days
DevOps Engineer Expert	DevOps Engineers work with people, processes, and technologies to continuously deliver business value	AZ-400: Designing and Implementing Microsoft DevOps solutions	aka.ms/az-400examguide	AZ-400T00: Designing and Implementing Microsoft DevOps Solutions	5 days
Azure IoT Developer Specialty	Azure IoT Developers create and maintain the cloud and edge portions of an IoT solution	AZ-220: Microsoft Azure IoT Developer	aka.ms/az-220examguide	AZ-220T00: Microsoft Azure IoT Developer	4 days

Microsoft Azure training and certification (3)

Certification	Role Description	Exam	Skills Measured	Microsoft Official Course	MOC duration
Azure Database Administrator Associate	Azure Database Administrators implement and manage cloud and on-premises relational databases built on top of Microsoft SQL Server and Azure data services	DP-300: Administering Relational Databases on Microsoft Azure	aka.ms/dp-300examguide	DP-300T00: Administering Relational Databases on Microsoft Azure	4 days
Azure Data Engineer Associate	Azure Data Engineers integrate, transform, and consolidate data from various structured and unstructured data systems into structures that are suitable for building analytics solutions	DP-203: Data Engineering on Microsoft Azure	aka.ms/dp-203examguide	DP-203T00: Data Engineering on Microsoft Azure	4 days
Data Analyst	Data Analysts help businesses to maximize the value of their data assets using Microsoft Power BI	DA-100: Analyzing Data with Microsoft Power BI	aka.ms/da-100examguide	DA-100T00: Analyzing Data with Microsoft Power BI	5 days
Azure AI Engineer Associate	Azure AI Engineers build, manage, and deploy AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework	AI-102: Designing and Implementing a Microsoft Azure AI Solution	aka.ms/ai-102examguide	AI-102T00: Designing and Implementing a Microsoft Azure AI Solution	2 days
Azure Data Scientist Associate	Azure Data Scientists apply data science and machine learning to implement and run machine learning workloads on Azure	DP-100: Designing and Implementing a Data Science Solution on Azure	aka.ms/dp-100examguide	DP-100T01: Designing and Implementing a Data Science solution on Azure	3 days
				DP-090T00: Implementing a Machine Learning Solution with Microsoft Azure Databricks	1 day

Microsoft Azure training and certification (4)

Microsoft Official Course (MOC)	Role Description	Recommended for role	MOC duration
WS-012T00: Windows Server 2019 Hybrid and Azure IaaS	This three-day is intended primarily for IT Professionals who have experience with managing an on-premises Windows Server environment. Its purpose is to prepare professionals for planning, implementing, and managing environments that include Azure IaaS-hosted Windows Server-based workloads	Azure Administrator	3 days
WS-013T00: Azure Stack HCI	This three-day is intended primarily for IT Professionals who already have significant experience with managing an on-premises Windows Server environment. Its purpose is to cover advanced topics related to Windows Server software-defined datacenter, Azure Stack HCI, and other Azure Stack products	Azure Administrator	3 days
WS-050T00: Migrating Application Workloads to Azure	This workshop teaches IT Professionals how to migrate existing on-premises workloads and assets to the cloud, specifically to the Microsoft Azure platform	Azure Administrator	2 days
DP-050T00: Migrate SQL workloads to Azure	In this course, the students will explore the objectives of data platform modernization and how it is suitable for given business requirements. They will also explore each stage of the data platform modernization process and define what tasks are involved at each stage, such as the assessment and planning phase	Azure Database Administrator	2 days
DP-060T00: Migrate NoSQL workloads to Azure Cosmos DB	This will teach the students what is Cosmos DB and how you can migrate MongoDB and Cassandra workloads to Cosmos DB	Azure Database Administrator	1 day
DP-070T00: Migrate Open Source Data Workloads to Azure	This will enable the students to understand Azure SQL Database, and educate the students on what is required to migrate MySQL and PostgreSQL workloads to Azure SQL Database	Azure Database Administrator	1 day

Azure training journey for IT pros

aka.ms/ESIAzureTrainingJourney

Master the basics

New to the cloud or new to Azure


Azure Fundamentals

 Azure Fundamentals
AZ-900

Start here

Implement, manage, and monitor cloud solutions


Azure Administrator

 Azure Administrator Associate
AZ-104

Grow in role


Implement and manage secure cloud solutions

Azure security engineer

 Azure Security Engineer Associate
AZ-500


Design and implement end to end cloud solutions

Azure solutions architect

 Azure Solutions Architect Expert
AZ-303 + AZ-304


Manage SAP solutions on Azure

Azure for SAP workloads

 Azure for SAP Workloads Specialty
AZ-120


Deliver continuous value integrating people, processes, and technologies

DevOps engineer

 DevOps Engineer Expert
AZ-400


Bring cloud agility on-premises

Azure Stack Hub operator

 Azure Stack Hub Operator Associate
AZ-600

Deliver virtual desktop experiences and remote apps on Azure

Azure administrator for Windows Virtual Desktop

 Windows Virtual Desktop Specialty
AZ-140

Continue to grow with additional training

Migrate apps & infrastructure to the cloud

WS-050

Manage Windows Server and hybrid cloud solutions

WS-011, WS-012, WS-013


Manage Linux on Azure

Azure training journey for developers

aka.ms/ESIAzureTrainingJourney

Master the basics

New to the cloud or new to Azure

Azure Fundamentals
 Azure Fundamentals
AZ-900

New to data solutions on Azure

Azure Data Fundamentals
 Azure Data Fundamentals
DP-900


New to AI or new to AI on Azure

Azure AI Fundamentals
 Azure AI Fundamentals
AI-900

Start here


Design, build, test, and maintain cloud apps

Azure Developer


 Azure Developer Associate
AZ-204

Grow in role


- **Deliver continuous value integrating people, processes, and technologies**

DevOps engineer
 DevOps Engineer Expert
AZ-400


- **Build, manage, and deploy AI solutions**

Azure AI engineer
 Azure AI Engineer Associate
AI-102

- **Develop cloud and edge IoT solutions**

Azure IoT developer
 Azure IoT Developer Specialty
AZ-220

- **Design and implement end-to-end cloud solutions**

Azure solutions architect
 Azure Solutions Architect Expert
AZ-303 + AZ-304

Continue to grow with additional training


- **Migrate data to the cloud**
DP-050, DP-060, DP-070

Azure training journey for Data & AI pros

aka.ms/ESIAzureTrainingJourney

Master the basics

New to the cloud or new to Azure

Azure Fundamentals
 Azure Fundamentals
AZ-900

New to data solutions on Azure

Azure Data Fundamentals
 Azure Data Fundamentals
DP-900


New to AI or new to AI on Azure

Azure AI Fundamentals
 Azure AI Fundamentals
AI-900

Start here

Manage relational cloud and hybrid databases


Azure database administrator

 Azure Database Administrator Associate
DP-300

Start here

Build, manage, and deploy AI solutions


Azure AI Engineer

 Azure AI Engineer Associate
AI-102

Grow in role


Get structure and unstructured data ready for analytics

Azure data engineer

 Azure Data Engineer Associate
DP-203

• Build, train, and deploy machine learning models


Azure data scientist

 Azure Data Scientist Associate
DP-100 + DP-090

Start here

Get insights from data assets

Data analyst

 Data Analyst Associate
DA-100

Continue to grow with additional training

- **Migrate data to the cloud**
DP-050, DP-060, DP-070

Welcome to the Learner Experience Portal (LxP): <https://esi.microsoft.com/>

Video Resources

AAD Domain Login:

https://aka.ms/LxPLogin_AAD

Tour the LxP:

<https://aka.ms/LxPWalkthroughVideo>

Schedule your voucherless exam!

<https://aka.ms/LxPExamDiscountVideo>

Support

Log Case: <https://esisupport.microsoft.com/>

Email: TechSkillsSupport@Microsoft.com

VITA SERVICE TALKS

Let's continue the conversation





LET'S CONTINUE THE CONVERSATION

VITA is offering customers an opportunity to expand upon the discussions that were started today. These service talks will either be one-on-one (agency/supplier) or in open group settings and will provide agencies the opportunity to ask more detailed questions about the services and how they can be applied to their organizations.

PLEASE VISIT THE VITA WEBSITE, VIRTUAL SERVICES FAIR PAGE, FOR INFORMATION ON JOINING THE GROUP SESSIONS AND SIGNING UP FOR 1:1 SESSIONS:

[HTTPS://WWW.VITA.VIRGINIA.GOV/TECHNOLOGY-SERVICES/SERVICES-FAIR/](https://www.vita.virginia.gov/technology-services/services-fair/)



The following VITA service talks have a capacity of 500 attendees:

- **Cloud services**
 - Tuesday, Nov. 9: 9 – 10:30 a.m.
 - Tuesday, Nov. 16: 1 – 2:30 p.m.
- **Messaging services**
 - Thursday, Oct. 21: 1 – 2:30 p.m.
 - Thursday, Nov. 4: 9 – 10:30 a.m.
- **Voice and data services update**
 - Monday, Oct. 25: 1 – 2:30 p.m.
 - Monday, Nov. 15: 9 – 10:30 a.m.

Questions can be submitted in advance by emailing businessreadiness@vita.virginia.gov. Please include the topic in the subject line. For example: Question for messaging service talk

One-on-one service talks are available first come, first served. Please coordinate with your team and sign up your agency for one session only.

- **Application integration services (AIS)**
 - Wednesday, Oct. 27: 9 – 10:30 a.m.
 - Wednesday, Nov. 10: 1 – 2:30 p.m.
- **ePen**
 - Thursday, Oct. 28: 9 – 10:30 a.m.
 - Wednesday, Nov. 3: 1 – 2:30 p.m.
- **Box**
 - Monday, Nov. 1: 9 – 10:30 a.m.
 - Friday, Nov. 12: 9 – 10:30 a.m.
- **Robotic process automation (RPA)**
 - Tuesday, Oct. 26: 9 – 10:30 a.m.
 - Monday, Nov. 8: 1 – 2:30 p.m.

QUESTIONS

