Microsoft Azure

Real World Azure Skills to Your Students for Free

Hope Foley –Data & AI CSA EDU

7/21/22

THE WHO IS SHE SLIDE…

Data & AI Senior Cloud Solution Architect

Former Microsoft Data Platform MVP

Business Intelligence Consultant/DBA background

Organizer of SQLSaturday Indy for 10 years

SQL Server consultant for 9 + years

PASS
SQLSATURDAY
INDIANAPOLIS | AUG 11 2018

Current

Microsoft

Former

MVP
Microsoft®
Most Valuable
Professional

THANK YOU!

AGENDA

1. What is Azure?

2. How can I get free Azure?

3. What would I be able to do then?

4. Resource overload

5. Q&A

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What is Azure?

Edge Devices

Azure Stack   Azure Data Box   Azure Sphere   Azure Kinect   HoloLens

Serverless

Web   Databases
Mobile   Analytics
Mixed Reality   AI + Machine Learning
Containers   Internet of Things
Events + Integration   Media

Infrastructure

Compute   Networking   Storage   Security   Identity

Tools

Visual Studio
GitHub
PowerApps
Power BI

More trusted capability than any provider
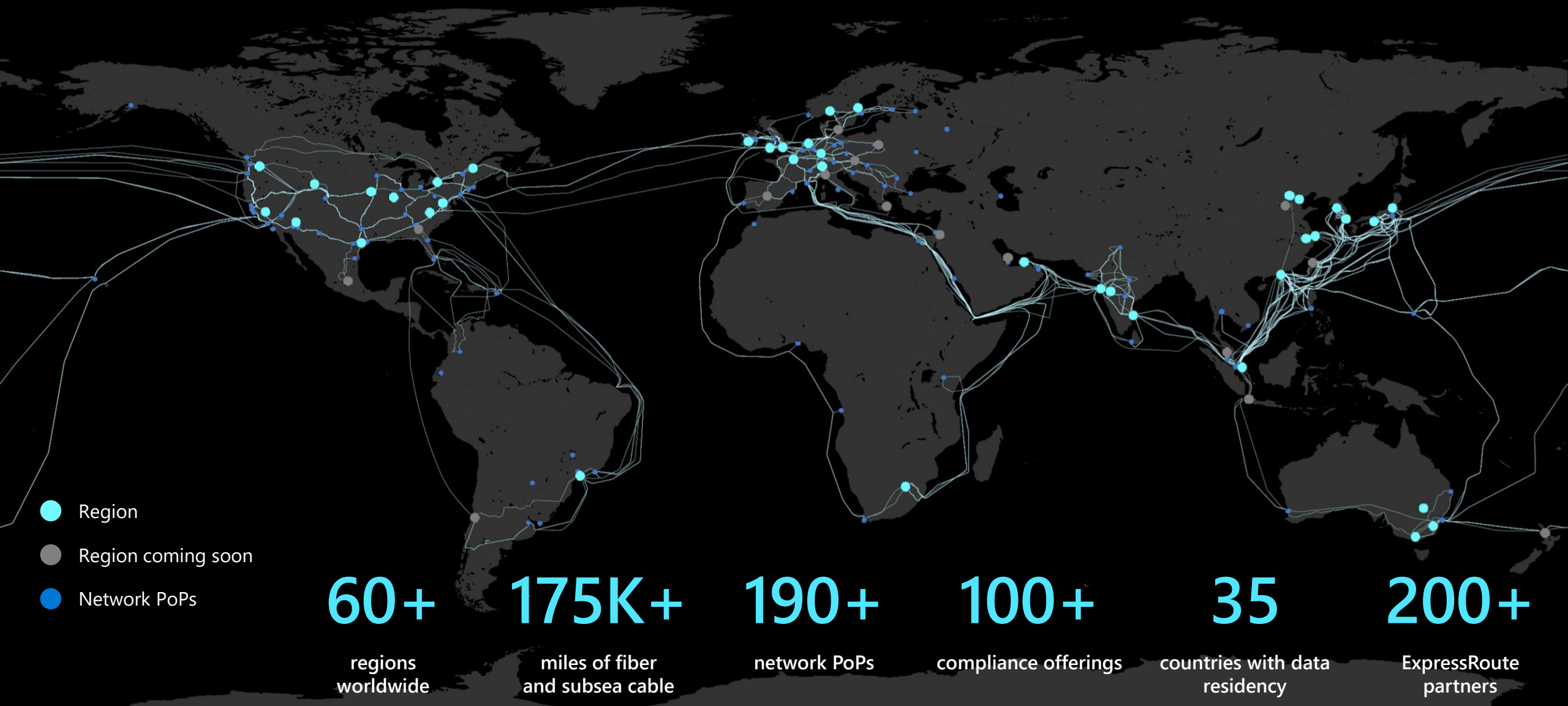
Region

Region coming soon

Network PoPs

60+
regions
worldwide

175K+
miles of fiber
and subsea cable

190+
network PoPs

100+
compliance offerings

35
countries with data
residency

200+
ExpressRoute
partners

For more information, see Availability and Infrastructure deck available on GearUp »

Azure global infrastructure | **https://infrastructuremap.microsoft.com**

Azure covers 100 compliance offerings

Azure has the deepest and most comprehensive compliance coverage in the industry

Global	US Gov	Industry	Regional

Global
- CIS Benchmark
- CSA STAR attestation
- CSA STAR certification
- CSA STAR self-assessment
- ISO 20000-1
- ISO 22301
- ISO 27001
- ISO 27017
- ISO 27018
- ISO 27701
- ISO 9001
- SOC 1 Type 2
- SOC 2 Type 2
- SOC 3
- WCAG 2.0 (ISO 40500)

US Gov
- CJIS
- CNSSI 1253
- DFARS + CMMC
- DoD IL2
- DoD IL4
- DoD IL5
- DoD IL6
- DoE 10 CFR Part 810
- EAR
- FedRAMP
- FIPS 140-2
- IRS 1075
- ITAR
- NIST 800-171
- NIST 800-53
- NIST CSF
- Section 508 VPATs

Industry

Automotive
- TISAX (Germany)

Education
- FERPA (US)

Energy
- NERC (US)

Financial Services
- 23 NYCRR 500 (US)
- AFM + DNB (Netherlands)
- AMF + ACPR (France)
- APRA (Australia)
- CFTC 1.31 (US)
- EBA (EU)
- FCA + PRA (UK)
- FFIEC (US)
- FINMA (Switzerland)
- FINRA 4511 (US)
- FISC (Japan)
- FSA (Denmark)
- GLBA (US)
- KNF (Poland)
- MAS + ABS (Singapore)
- NBB + FSMA (Belgium)
- OSFI (Canada)

Financial Services (Cont.)
- OSPAR (Singapore)
- PCI DSS Level 1
- PCI 3DS
- RBI + IRDAI (India)
- SEC 17a-4 (US)
- SEC Regulation SCI (US)
- Shared assessments (US)
- SOX (US)
- TruSight

Healthcare and Life Sciences
- ASIP HDS (France)
- GxP (FDA 21 CFR Part 11)
- HIPAA (US)
- HITRUST
- MARS-E (US)
- NEN 7510 (Netherlands)

Media and Entertainment
- CDSA
- DPP (UK)
- FACT (UK)
- MPA

Telecommunications
- GSMA

Regional

Americas
- Argentina PDPA
- Canada Privacy Laws
- US CCPA

Asia Pacific
- Australia IRAP Unclassified
- China GB 18030:2005
- China DJCP (MLPS)
- China TRUCS/CCCPPF
- China TCS
- India MeitY
- Japan CS mark gold
- Japan My Number act
- Korea K-ISMS
- New Zealand ISPS
- Singapore MTCS Level 3

Europe and Middle East
- EU EN 301 549
- EU ENISA IAF
- EU GDPR
- EU model clauses
- Germany C5
- Germany IT—Grundschutz workbook
- Netherlands BIR 2012
- Russia personal data law
- Spain ENS High
- Spain LOPD
- UAE DESC
- UK cyber essentials plus
- UK G-Cloud
- UK PASF

https://aka.ms/AzureCompliance

The Azure data landscape

Azure Data Factory

Azure Import/Export service

Azure CLI

Azure SDK

Azure SQL DB

Azure Cosmos DB

Azure Synapse Analytics

Azure Analysis Services

Power BI

Azure Blob Storage

Azure Data Lake Store

Azure HDInsight

Azure Databricks

Azure ML

ML Server

Azure Databricks

Azure IoT Hub

Azure event hubs

Kafka on Azure HDInsight

Azure Search

Azure Purview

Azure Stream Analytics

Azure HDInsight

Azure Databricks

Bot service

Cognitive services

Azure ExpressRoute

Azure Active Directory

Azure network security groups

Azure key management service

Azure Monitor

Azure Functions

Visual Studio

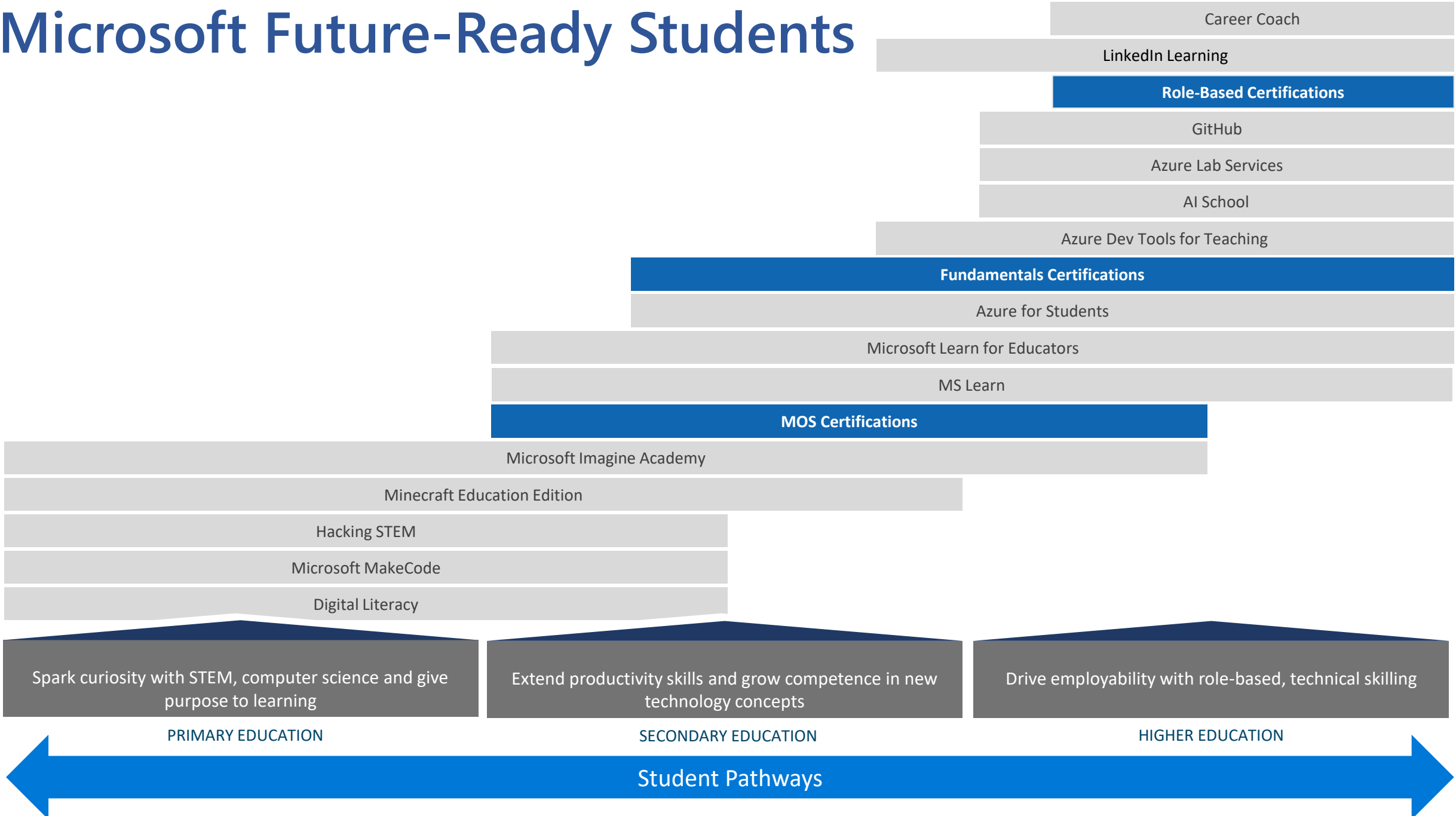# How can I get free Azure?

EDU Azure Resources -
https://aka.ms/edu/azureresources

What would I be able to do then?

Computer Vision Demo - https://vision.cognitive.azure.com/gallery

Microsoft Future-Ready Students

Career Coach

LinkedIn Learning

Role-Based Certifications

GitHub

Azure Lab Services

AI School

Azure Dev Tools for Teaching

Fundamentals Certifications

Azure for Students

Microsoft Learn for Educators

MS Learn

MOS Certifications

Microsoft Imagine Academy

Minecraft Education Edition

Hacking STEM

Microsoft MakeCode

Digital Literacy

Spark curiosity with STEM, computer science and give purpose to learning	Extend productivity skills and grow competence in new technology concepts	Drive employability with role-based, technical skilling
PRIMARY EDUCATION	SECONDARY EDUCATION	HIGHER EDUCATION

Student Pathways

Resource Overload

Microsoft Imagine Academy – https://www.microsoft.com/en-us/education/imagine-academy

Microsoft Learn – http://aka.ms/learn

Microsoft Learn for Educators - http://aka.ms/msle

Minecraft Education - https://education.minecraft.net/en-us/discover/what-is-minecraft

Imagine Cup - https://imaginecup.microsoft.com/en-us

Azure Calculator - https://azure.microsoft.com/en-us/pricing/calculator/

Additional Microsoft K-12 Education program offers

Azure Dev Tools for Teaching for access to tools commonly used for STEM programs.

Azure for Students Starter where students have access to free Azure services.

AI Business School learning path created for edu decision-makers to help them understand the true transformational impact of AI in education.

GitHub for Education access to tools & events to help shape the next generation of software development.

Microsoft Office Training to get going quickly and easily with Microsoft 365 video training.

Microsoft Accessibility Classroom Resources of accessible technologies to help students with disabilities unlock their full potential by addressing the diversity of needs.

Hacking STEM Library are lessons & hands-on activities for K-12 Students.

Microsoft Insights for Education are education insights that provides real-time analytics of participant progress and activity within a class team.

Microsoft Reading Progress in Teams supports students in building fluency through independent reading practice, educator review, and educator insights.

Immersive Reader is a free tool that uses proven techniques to improve reading for people regardless of their age or ability. Increase reading speed and comprehension for all learners, support students with learning differences like Dyslexia with text decoding solutions, and help emerging readers build confidence.

Microsoft Education Skills Resources for K-12

Microsoft

Q&A

THANK YOU!!

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