

# Tech Intensity and innovation

**Dan Bowen**  
*Technology Strategist*  
*Microsoft Australia*



**Empower every person  
and every organization on the  
planet to achieve more**



**"As a culture, we are moving from a group of people who know it all to a group of people who want to **learn it all.**"**

-Satya Nadella





Innovation and  
jumping  
the curve.

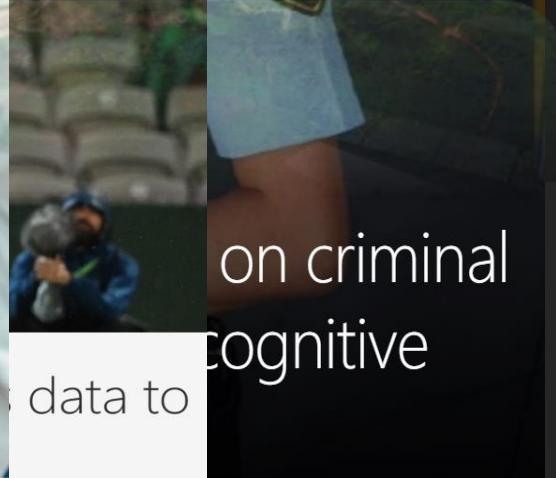


# Fishy business: Putting AI to work in Australia's Darwin Harbour

Identifying and counting fish species in murky water filled with deadly predators is a difficult task. But Northern Territory fisheries scientists in the Northern Territory are working on an artificial intelligence project with Microsoft that has incredible potential for marine science around the world.



Microsoft / Features / Artificial Intelligence >



Teaming up for turtle  
Cloud and AI automate and accelerate  
rangers from Cape York, Australia,

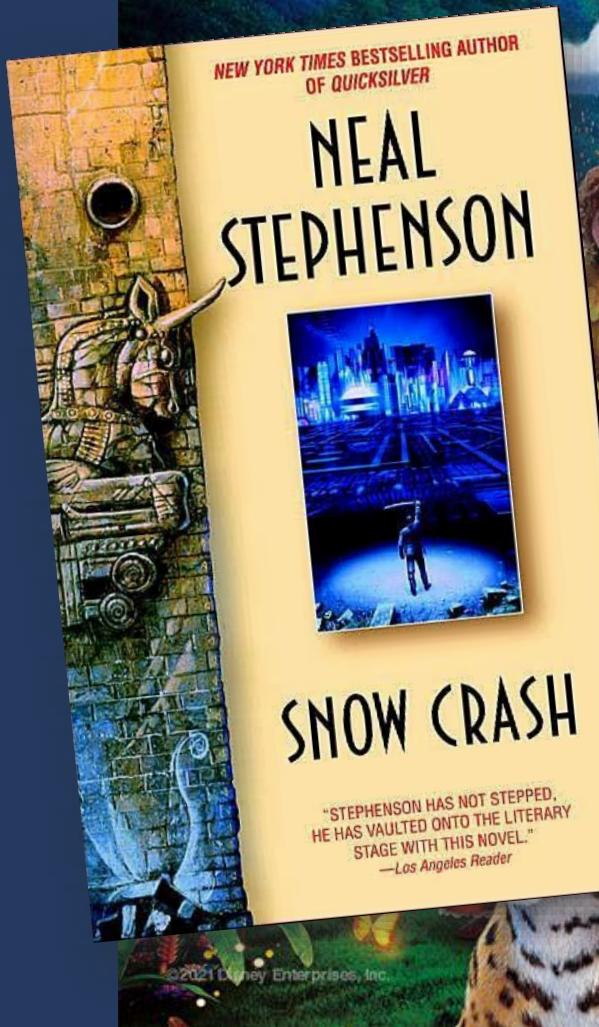


A world-first AI-infused cloud  
Australia to identify evidence  
York Indigenous rangers &

In some parts of western  
50km stretch of beach tha

## What's happening in Australia?

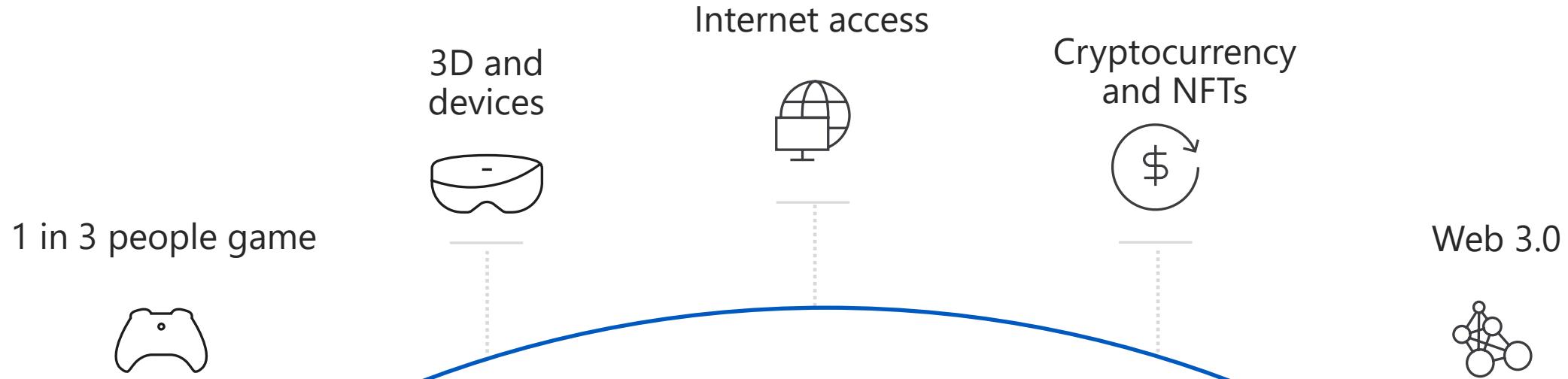
NSW Health Pathology helping transform medical testing and patient care with cloud, data and AI



# Metaverse

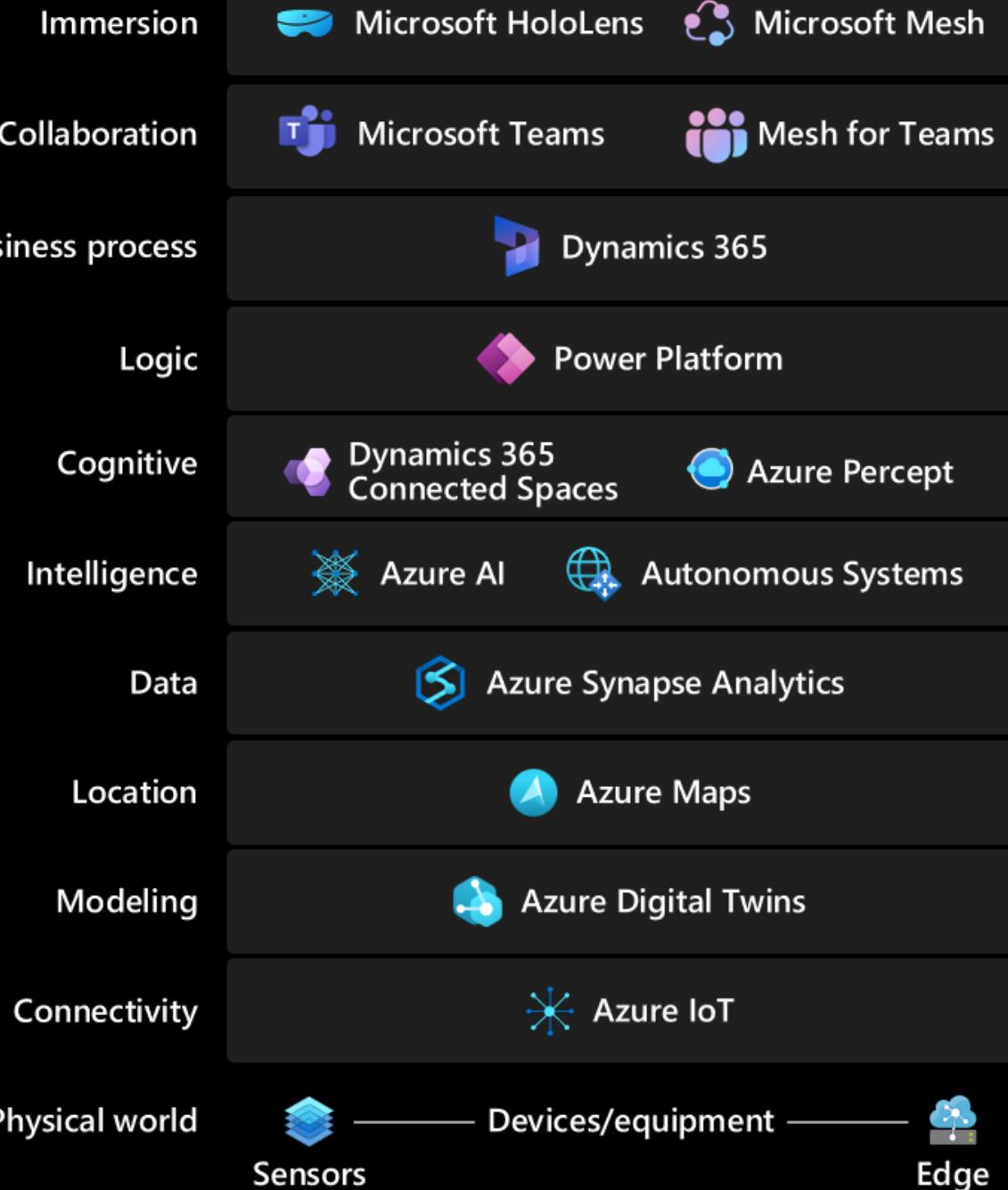
[AI Education Podcast: Life the Metaverse and everything \(aipodcast.education\)](http://aipodcast.education)

# Why now?



Tailwinds for the metaverse

# Microsoft Solutions for the Metaverse



Tech (L)earnings

# Real Trends from IT teams

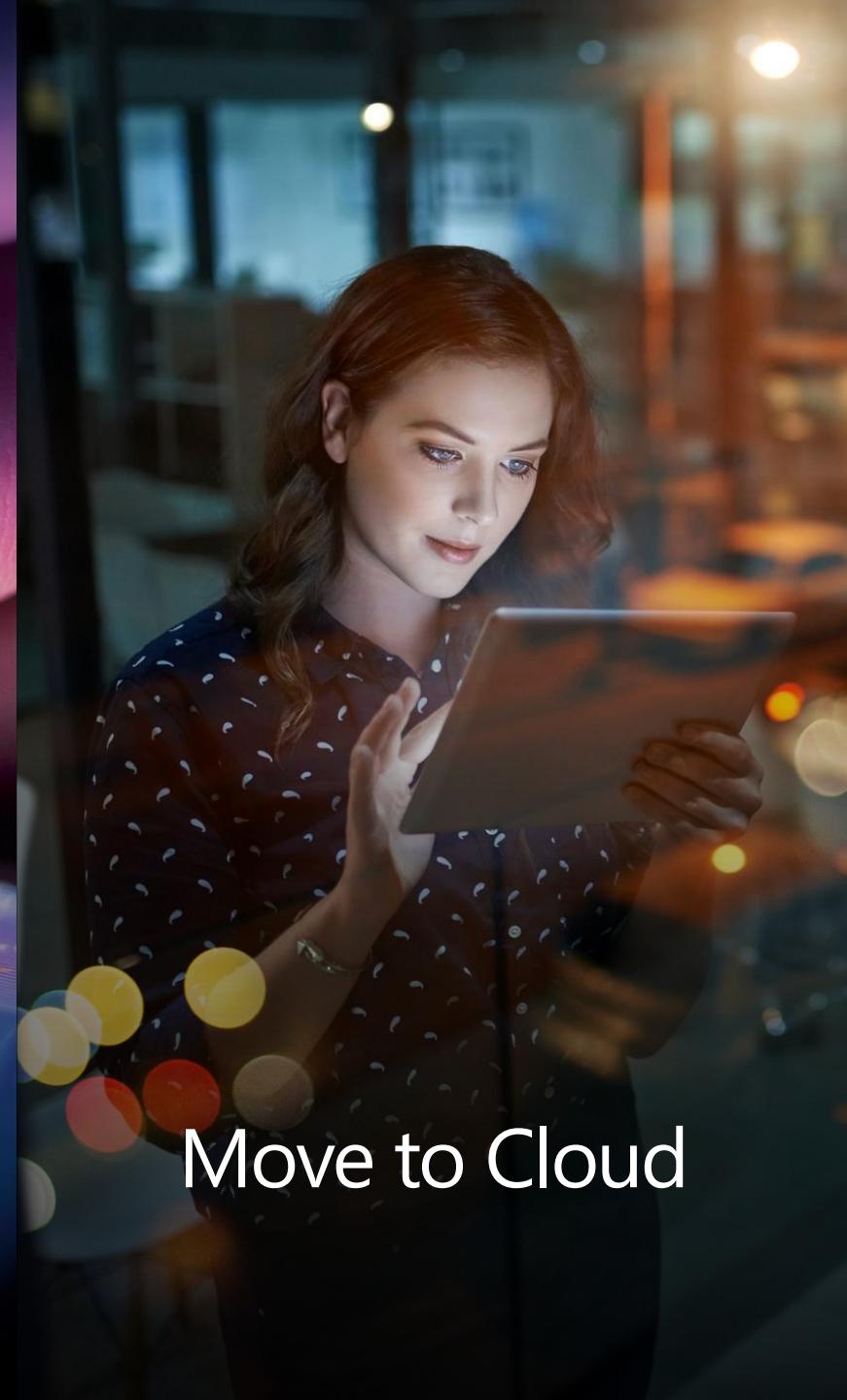
- A large number are staying “we’re not buying more hardware” rather than “cloud first”
- Big focus on security and Essential 8 maturity, but also more conversations on automated threat hunting rather than just the basics
- Focus on “hybrid work” and what that means for end user compute, telephony and meeting rooms as well as the non-technical side – culture change, mental health impacts, return to work practices
- Almost no desktops left, but those that do are actively moving to laptops
- Interestingly a move away from virtual desktops from customers that have used them for a long time for remote access. Virtual desktop being used more as pool for niche use cases (contractors, forgotten laptop, developers, etc)
- *Almost* everyone on M365 for Exchange and Teams and those that aren’t are mid-flight
- Looking to get more from existing investments, reduce number of vendors
- Bigger focus on data/analytics and senior data roles within departments
- More interest in AI and more real-world use cases for AI across government
- Skills – the market is impossibly hard to find affordable, skilled workers and training the ones we have is hard. Also a big skills gap within the public service. Some are ready for change, some struggle with the pace of technology deployment



Big Data and  
scaled analytics



Security and privacy

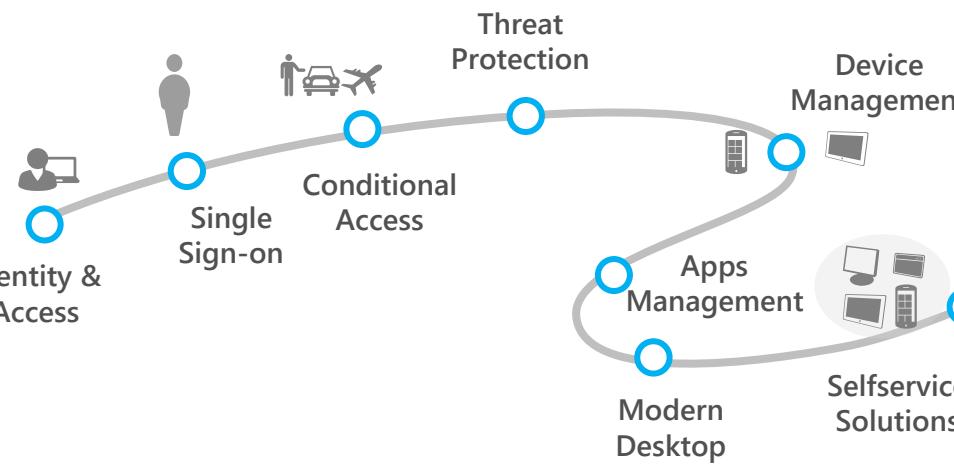


Move to Cloud

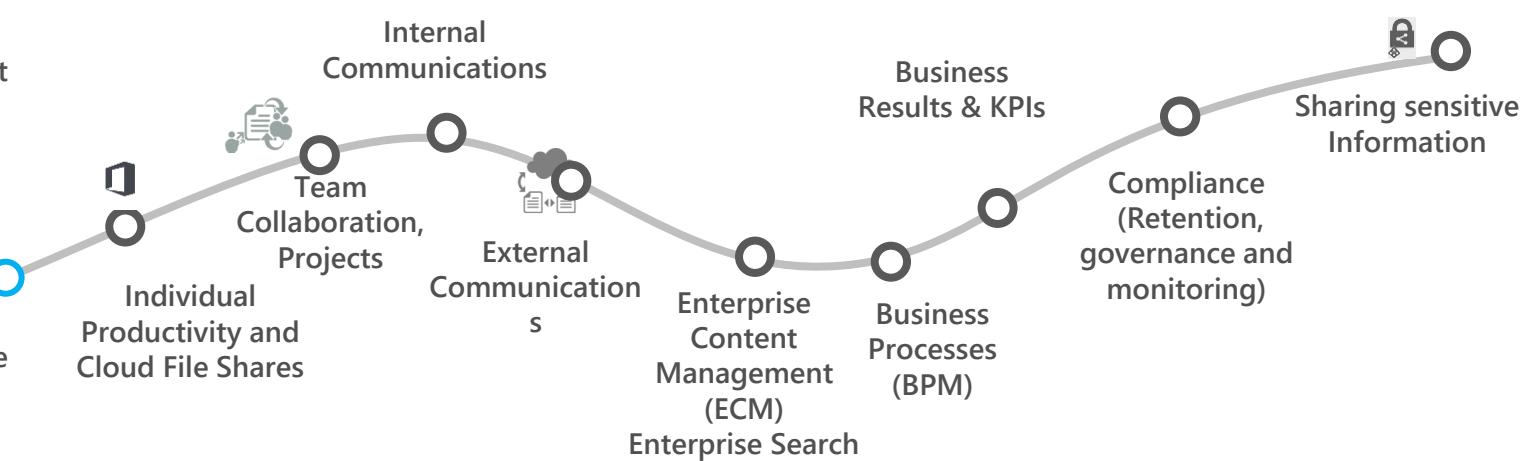
# The Modern Workplace



## 01 Identity and Threat Protection



## 02 Device & Apps Management



## 03 Productivity & Collaboration



## 04 Information Protection & Governance

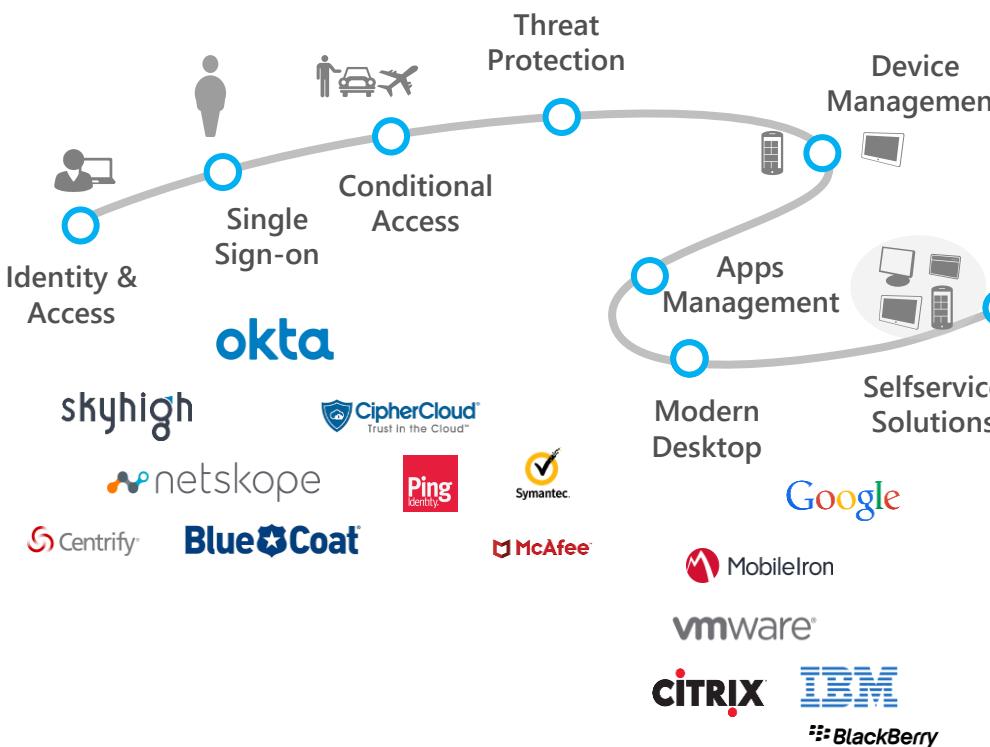
# Microsoft 365

A secure, intelligent, and complete solution to empower your employees

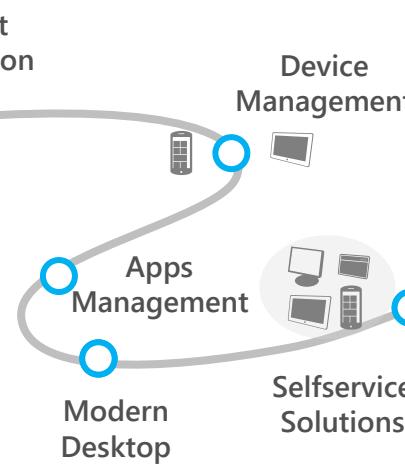
# The Modern Workplace Foundations in context



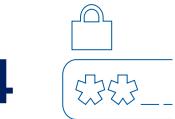
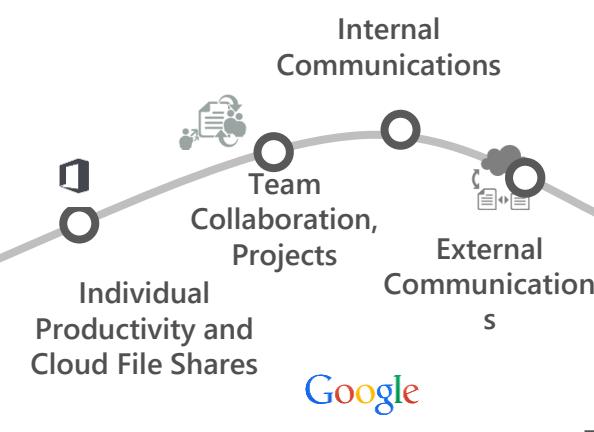
## 01 Identity and Threat Protection



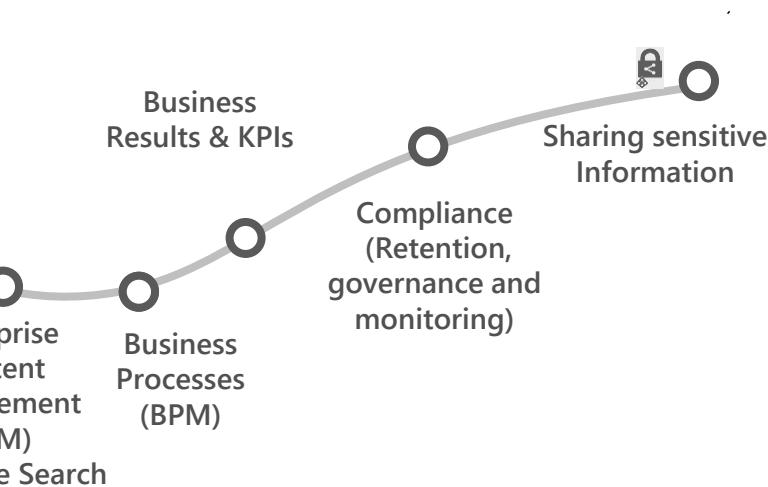
## 02 Device & Apps Management



## 03 Productivity & Collaboration

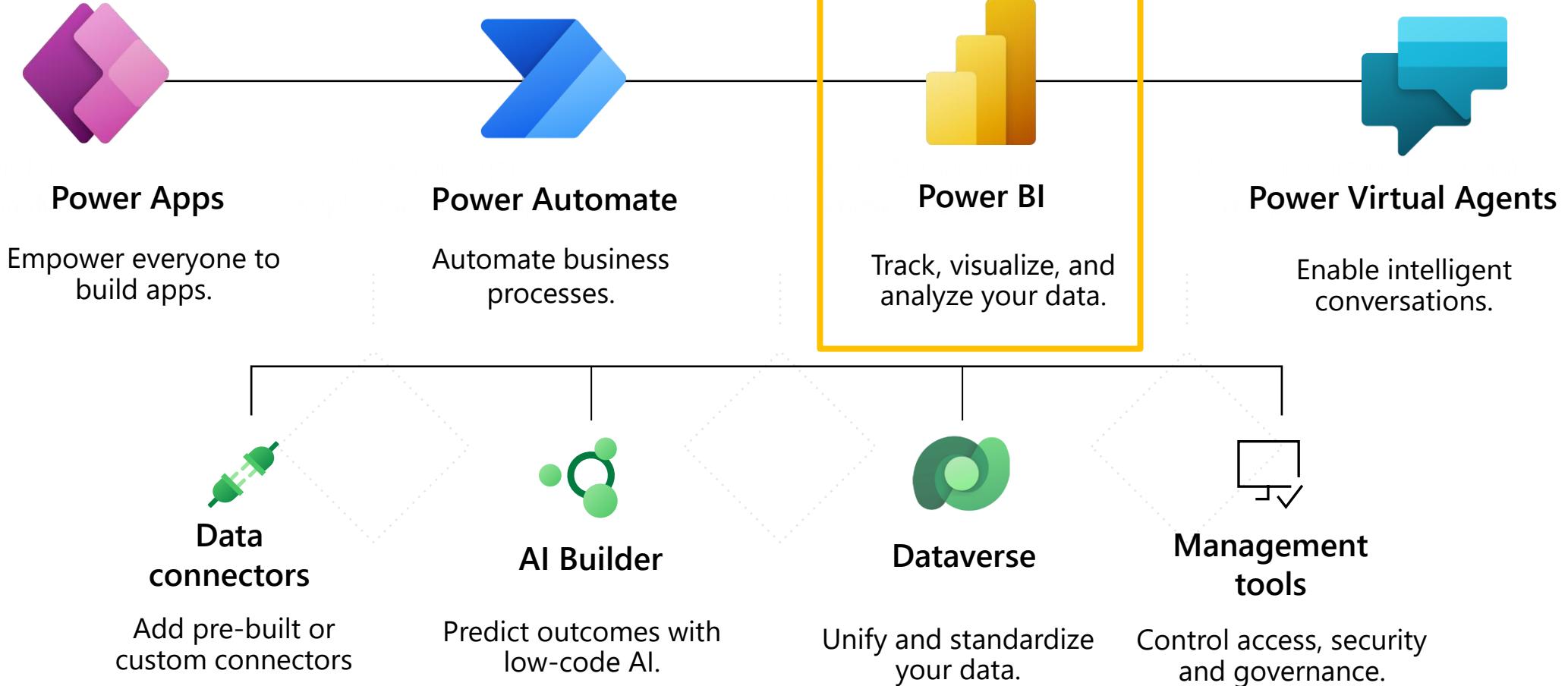


## 04 Information Protection & Governance



# Microsoft Power Platform (Citizen development)

A complete low-code solution



# The evolution of IT roles

## Commoditized role examples

Solution Manager

UI Designer/UX Designer

Tester (software development engineer)

Developer

Application operation and support

Network datacenter engineer

Statistician analyst

Database administrator or data analyst

## Emerging roles for the cloud era

→ Relationship manager

Business architect

Process engineer

→ Engineering and DevOps

→ Process engineer

→ Engineering and DevOps

→ Engineering and DevOps

→ Edge/wireless networking

Cloud architect

→ Data scientist

→ Data scientist

Information architect

# Skilling overview at a glance

Program ➔	Services Hub On Demand Learning	Unified Support Workshops	Microsoft Learn	Enterprise Skills Initiative	Imagine Academy	Virtual Training Days	Azure Dev Tools for Teaching
⬇️ Objective							
Self Paced Learning	✓		✓				
Learning Paths	✓		✓	✓			
Hands on Labs	✓						✓
Tech Talks / Webcasts	✓					✓	
In depth workshops		✓		✓		✓	
Certification preparation workshops				✓			
Productivity Workshops				✓		✓	
Custom Workshops							
Exam Preparation				✓	✓		
Certification Vouchers				✓	✓		
Product access for teaching							✓
Product Focus	All	All	All	Azure	All	Cloud	Azure
Depth	100-400	200-400	50-300+	50-300	50-200	50-200	50-300

# Unified support

[Bookmark](#) [Share](#)



## Deploying a Custom Start Layout Using Intune

30 minute(s) • Enterprise Mobility Suite

In this lab, you will perform essential device management tasks using Microsoft Intune. First, you will create a custom start layout, and then you will export it to an XML file. Next, you will use the XML file to create a policy to configure the Start menu when a device enrolls in mobile device management (MDM). Finally, you will enroll a Windows 10 device into management, and then you will review the effect of the policy.

On-Demand Learning

Included in contract

[Bookmark](#) [Share](#)



## Creating Alerts for Virtual Machine Events

1 hour(s) • 100 - Beginner • Azure

In this lab, you will create an Azure Activity Log alert to notify you when a virtual machine shuts down. You will create an alert rule, specifying the resource you want to monitor, the condition(s) that will fire the alert, and the actions to be taken when the alert fires, and then you will test the rule.

On-Demand Learning

Included in contract

[Bookmark](#) [Share](#)

## On demand assessments

## Learning and training online

## Ticketing (Sev A ...)

## Experts to help on projects

### Available On-Demand Assessments

Active Directory	Active Directory Operational Survey	Active Directory Security	Active Directory Security Survey	Azure Active Directory	Azure Active Directory ITDM Survey
Azure Active Directory Operational Survey	Azure App Service	Azure Solution Assessment	DevOps Capability Assessment	Dynamics 365 Customer Engagement Survey	Dynamics 365 for Finance and Operations Survey
Exchange Server	Exchange Server Operational Survey	Exchange Server Security Survey	Follower Cluster Survey	Hyper-V Survey	IT Survey
Intune Survey	Microsoft 365 Assessment for IT Decision Makers	Microsoft Endpoint Configuration Manager Survey	Microsoft Endpoint Manager	Modern Service Management Capability Assessment for Azure	Modern Service Management Capability Assessment for Office 365
Office 365 Collaboration Survey	Office 365 Exchange	Office 365 Operational Survey	Office 365 SharePoint	Office 365 Skype and Teams	SharePoint
SharePoint Operational Survey	SharePoint Security Survey	Skipper for Business	Skipper for Business Operational Survey	SQL Server	SQL Server Operational Survey
SQL Server Security Survey	System Center Operations Manager	System Center Operations Manager Operational Survey	Well-Architected Cost Optimization Assessment	Well-Architected Security Assessment	Windows Client
Windows Client Security Survey	Windows Client Survey	Windows Server	Windows Server Security Survey	Windows Server Survey	

# Services Hub | Build your team's knowledge

Stay current on Microsoft products and technologies with 1,500+ on-demand learning experiences

---

Access recommended learning content for your organization's Services Hub users

---

Improve your team's knowledge with a variety of learning experiences

---

Participate in live instructor-led webcasts

---

Learn at your pace with learning paths and on-demand videos

---

Practice skills interactively with Hands-on Labs

To learn more about the displayed feature: <https://aka.ms/sh-rc/learn>



## On-demand Videos

Learn at your own pace with expert videos showcasing Microsoft technologies.

[Discover More >](#)



## Hands-on Labs

Get hands-on experience with Microsoft Technologies in virtual environments.

[Discover More >](#)



## Learning Paths

Develop skills with structured collections of videos and labs to achieve your learning goals.

[Discover More >](#)



## Webcasts

Learn new features from experts with live and interactive online sessions.

[Discover More >](#)

# Enterprise skilling Initiative

The ESI program includes a variety of expert-led learning offerings designed to strengthen your organization's learning culture and speed your skilling journey:

-  Upskill your team through **Training Events** that combine presentations with demonstrations, discussions, and hands-on workshops with Microsoft experts.
-  Drive career and organizational impact through **Microsoft Virtual Training Day Events** that grow technical skills and develop confidence.
-  Give your organization a productivity boost through globally recognized, industry-endorsed **Microsoft Certifications**.
-  Help learners prepare for Microsoft certification exams through **Exam Prep sessions** and **Microsoft Official Practice Tests**.

# Microsoft Learn

The screenshot shows the Microsoft Learn homepage with a pink header banner for "Microsoft Build" from May 24-26, 2022, featuring a "Register now >" button. The main navigation bar includes Microsoft, Docs, Documentation, **Learn**, Q&A, Code Samples, Shows, Events, Search, and Sign in. Below the navigation is a secondary navigation bar with Learn, Products, Roles, Educator Center, Learn TV, Certifications, and FAQ & Help. The main content area features a "WELCOME TO MICROSOFT LEARN" section with a large "Discover your path" heading and a subtext about hands-on learning. It includes a "Customize my path" button and a "Browse the full catalog" link. To the right is a large graphic of the word "LEARN" formed by colorful winding paths. Below this are three cards: "LEARNING PATHS" (Learn on your own schedule), "CERTIFICATIONS" (Become Microsoft certified), and "LEARN TV" (Watch live and recorded events).

Microsoft Build

May 24-26, 2022

Register now >

Microsoft | Docs Documentation Learn Q&A Code Samples Shows Events

Search Sign in

Learn Products Roles Educator Center Learn TV Certifications FAQ & Help

WELCOME TO MICROSOFT LEARN

## Discover your path

Whether you're just starting or an experienced professional, our hands-on approach helps you arrive at your goals faster, with more confidence and at your own pace.

Customize my path

Browse the full catalog

### LEARNING PATHS

#### Learn on your own schedule

Explore a topic in-depth through guided paths or learn how to accomplish a specific task through individual modules.

Browse all learning options

### CERTIFICATIONS

#### Become Microsoft certified

Jump-start your career and demonstrate your achievements through industry-recognized Microsoft certifications.

Explore Certifications

### LEARN TV

#### Watch live and recorded events

View streaming technical content about Microsoft products from the experts that build and use it every day.

Start watching now

[Learning and Development Services \(microsoft.com\)](https://microsoft.com)

[Learn](#) [Products](#) [Roles](#) [Learn TV](#) [Certifications](#) [FAQ & Help](#)

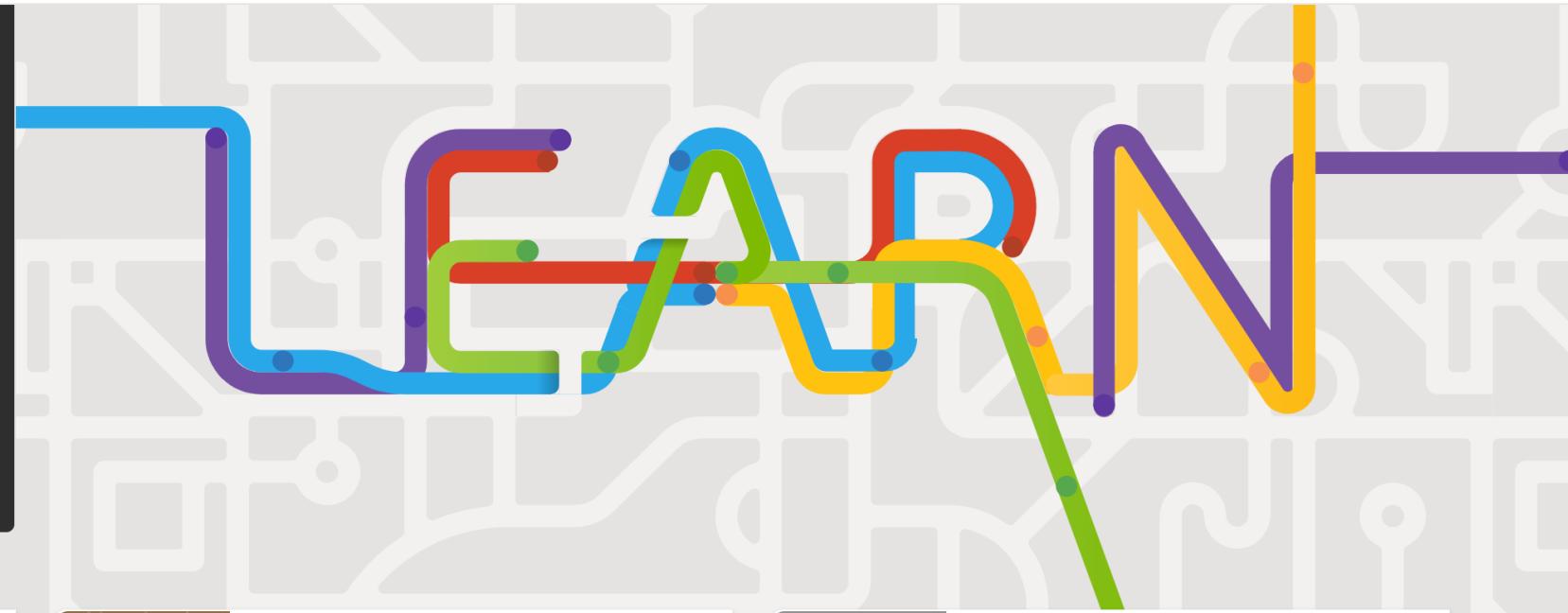
## WELCOME TO MICROSOFT LEARN

# Discover your path

1

Whether you're just starting or an experienced professional, our hands-on approach helps you arrive at your goals faster, with more confidence and at your own pace.

[Customize my path](#)



### LEARNING PATHS

#### 2 Learn on your own schedule

Explore a topic in-depth through guided paths or learn how to accomplish a specific task through individual modules.

[Browse all learning options](#)

### CERTIFICATIONS

#### 3 Become Microsoft certified

Jump-start your career and demonstrate your achievements through industry-recognized Microsoft certifications.

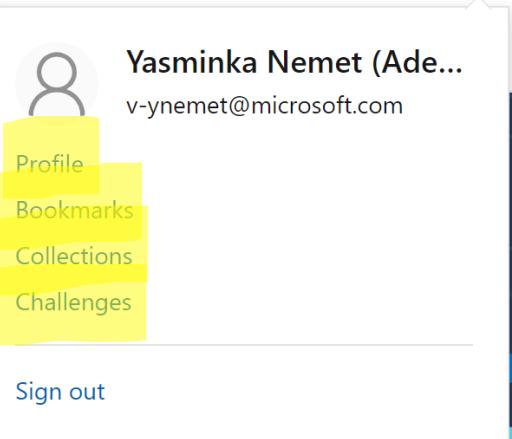
[Explore Certifications](#)

### LEARN TV

#### 4 Watch live and recorded events

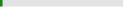
View streaming technical content about Microsoft products from the experts that build and use it every day.

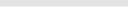
[Start watching now](#)

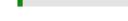


# Welcome back, Yasminka Nemet (Adecco)

Some items for you since your last visit:

 **LEARNING PATH**  
Azure Fundamentals part 3: Describe core solutions and management tools on Azure  
  
Next module: Choose the best Azure IoT service for your application  
  
 13% Dismiss Resume

 **LEARNING PATH**  
Deploy a website to Azure with Azure App Service  
  
Next module: Prepare your development environment for Azure development  
  
 1% Dismiss Resume

 **LEARNING PATH**  
Azure Fundamentals part 1: Describe core Azure concepts  
  
 4% Dismiss Resume

Help us customize your path

[See all activity](#)

## We think you might like these

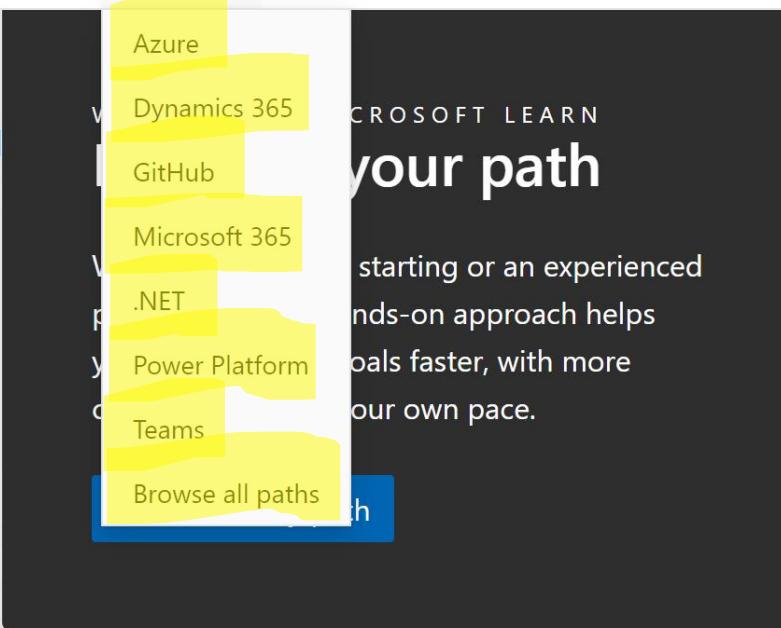
 [Edit your interests](#)

 Recommendations

 **LEARNING PATH**  
Azure Fundamentals part 1: Describe core Azure concepts

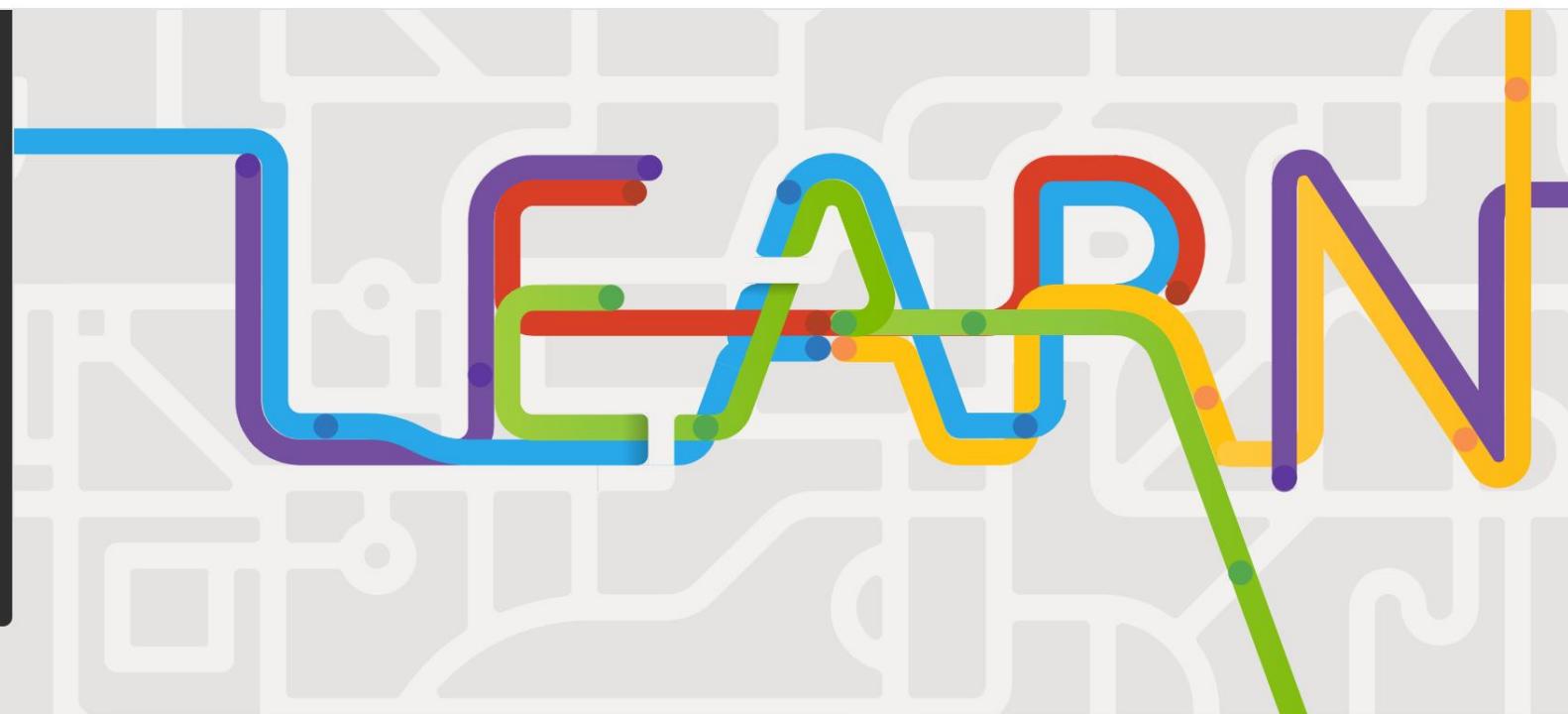
 **LEARNING PATH**  
Azure Fundamentals part 2: Describe core Azure services

 **MODULE**  
Protect against security threats on Azure  
  
25 min  4.8 (5,138)



## CROSSOFT LEARN your path

starting or an experienced  
ends-on approach helps  
oals faster, with more  
our own pace.

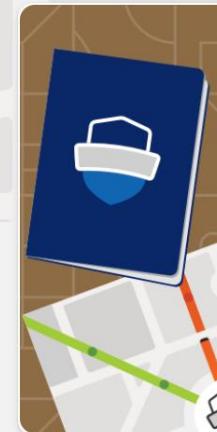


### LEARNING PATHS

#### Learn on your own schedule

Explore a topic in-depth through guided paths or learn how to accomplish a specific task through individual modules.

[Browse all learning options](#)

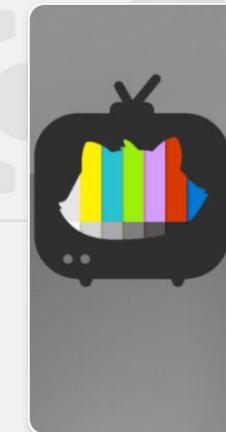


### CERTIFICATIONS

#### Become Microsoft certified

Jump-start your career and demonstrate your achievements through industry-recognized Microsoft certifications.

[Explore Certifications](#)



### LEARN TV

#### Watch live and recorded events

View streaming technical content about Microsoft products from the experts that build and use it every day.

[Start watching now](#)

Learn

Products

Roles

Learn TV Certifications FAQ &amp; Help

LEVEL 1

1200/1799 XP

Administrator

AI Engineer

App Maker

Business User

Data Analyst

Data Engineer

Data Scientist

Developer

Azure Solutions Architect

Educator

Functional Consultant

Security Engineer

Solutions Architect

Student

Help us customize your path

# Welcome, Yasminka Nemet (Adecco)

Your last visit:

6400 XP



## LEARNING PATH

3: Describe core development tools on Azure

Create IoT service for your

4700 XP



## LEARNING PATH

Azure Fundamentals part 1: Describe core Azure concepts

3000 XP

Dismiss

Resume

Dismiss

Resume

[See all activity](#)

## We think you might like these

[Edit your interests](#)

### LEARNING PATH

[Azure Fundamentals part 1: Describe core](#)

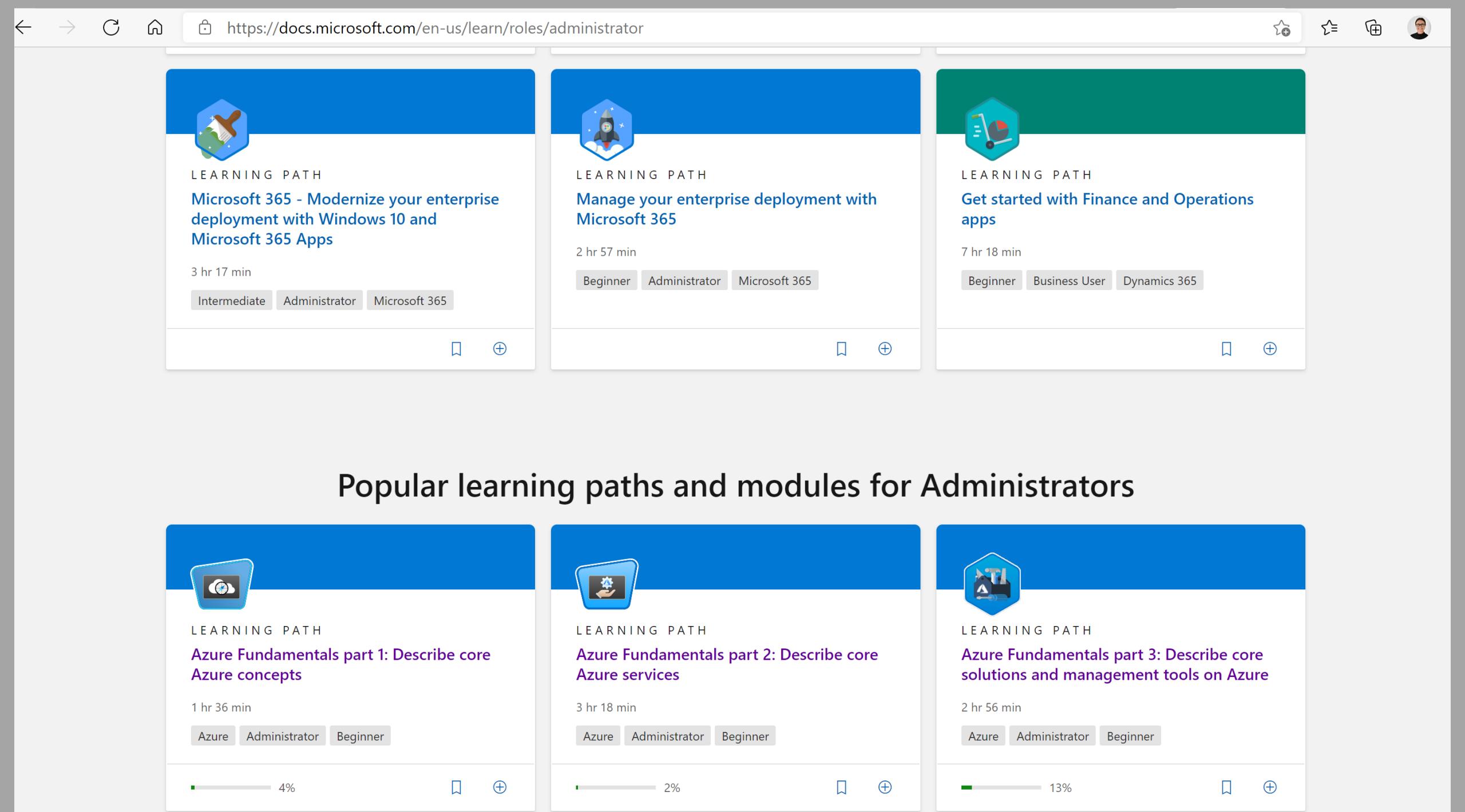
### LEARNING PATH

[Azure Fundamentals part 2: Describe core](#)

### MODULE

[Protect against security threats on Azure](#)

https://docs.microsoft.com/en-us/learn/roles/administrator



The screenshot shows the Microsoft Learn website for administrators. It displays three main learning paths in a grid:

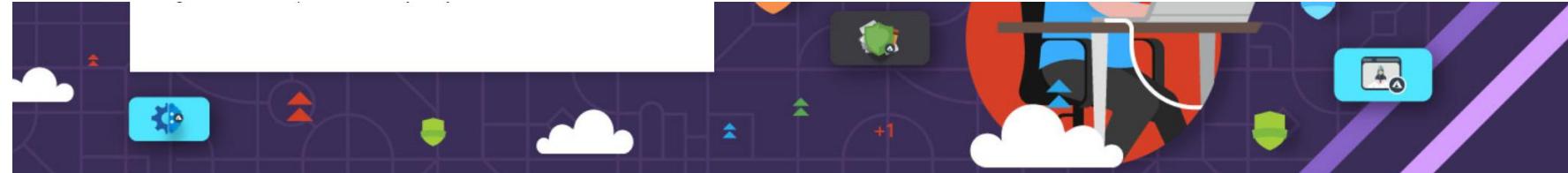
- Microsoft 365 - Modernize your enterprise deployment with Windows 10 and Microsoft 365 Apps**: 3 hr 17 min. Intermediate level. Administrator, Microsoft 365 roles.
- Manage your enterprise deployment with Microsoft 365**: 2 hr 57 min. Beginner level. Administrator, Microsoft 365 roles.
- Get started with Finance and Operations apps**: 7 hr 18 min. Beginner level. Business User, Dynamics 365 roles.

Below this, a section titled "Popular learning paths and modules for Administrators" lists three Azure Fundamentals paths:

- Azure Fundamentals part 1: Describe core Azure concepts**: 1 hr 36 min. Beginner level. Azure, Administrator roles.
- Azure Fundamentals part 2: Describe core Azure services**: 3 hr 18 min. Beginner level. Azure, Administrator roles.
- Azure Fundamentals part 3: Describe core solutions and management tools on Azure**: 2 hr 56 min. Beginner level. Azure, Administrator roles.

Each card includes a progress bar at the bottom indicating completion percentage (4%, 2%, 13%) and bookmark (+) and add (+) icons.

# MS Learn - Cloud skills challenge



Share page [in](#)

**Learn**

Starting May 3, 2022  
Using Microsoft Learn, our free\*, hands-on, self-paced, digital learning platform.

**Compete**

Until June 3, 2022  
Compete with others by completing collections of learning modules. Track your progress through a custom leaderboard.

**Win**

Winners awarded June 13, 2022  
Invest in your learning for a chance to win a pair of Surface Headphones and one of 20 merch packs full of Microsoft goodies.

# Virtual Training days



Explore the world from your desktop—one photo at a time. Get the Bing Wallpaper app today.

Bring your desktop to life with daily backgrounds when you get Bing Wallpaper

[No thanks](#)

[Get it now](#)



Cloud Skills Hub

Training catalogue

Cloud skills in a week

Cloud skills challenge

All Microsoft ▾

Search

Cart

Sign in

## Microsoft Cloud Training Events

Get started with free cloud skills training events near you. Engage with Microsoft experts and delve deeper into Azure, Microsoft 365 and Dynamics 365 at in-person events and webinars to start your learning journey today.

Start learning

Start learning, please select a topic

[Find events >](#)

Search by event name or keyword

Search by event name or keyword



## Azure

Join start-ups, governments and 95% of Fortune 500 companies on the Microsoft Cloud today and develop the technical skills to transform your business through cloud computing and Azure services.

## Microsoft 365

Learn how you can get the most out of Microsoft 365 best-in-class productivity through our training events that deep dive into Security and Compliance, Teams, and Desktop Deployment.

## Dynamics 365

Learn how Dynamics 365 can transform optimise and adapt to your business across Sales, Marketing, Finance and Operations, Field Service and Customer Service.

[Free Cloud Training Events | Microsoft](#)

# Imagine Academy (Curriculum Mainly)

## Real-world education

Microsoft Imagine Academy gives teachers technology skills and helps students succeed through employability and industry certification.



Curriculum

Access numerous online courses for students, educators and staff and prepares learners for Microsoft's globally recognised certifications.



Certifications

Students gain confidence in their technology skills and chart a path to college and career success.

[EXPLORE MICROSOFT CERTIFICATIONS >](#)



Professional development

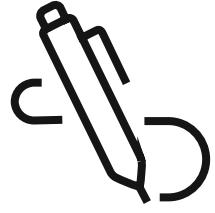
Provide educators with the latest technology curriculum, guidance, resources, and complimentary certification exam vouchers.

**30 certification exam vouchers** per Microsoft School, Campus 3, or Open Value volume license agreement, each of which can be redeemed to take one Microsoft certification exam:

- Microsoft Office Specialist (MOS)
- Microsoft Technology Associate (MTA)
- Microsoft Fundamentals
- Microsoft Certified Educator (MCE)

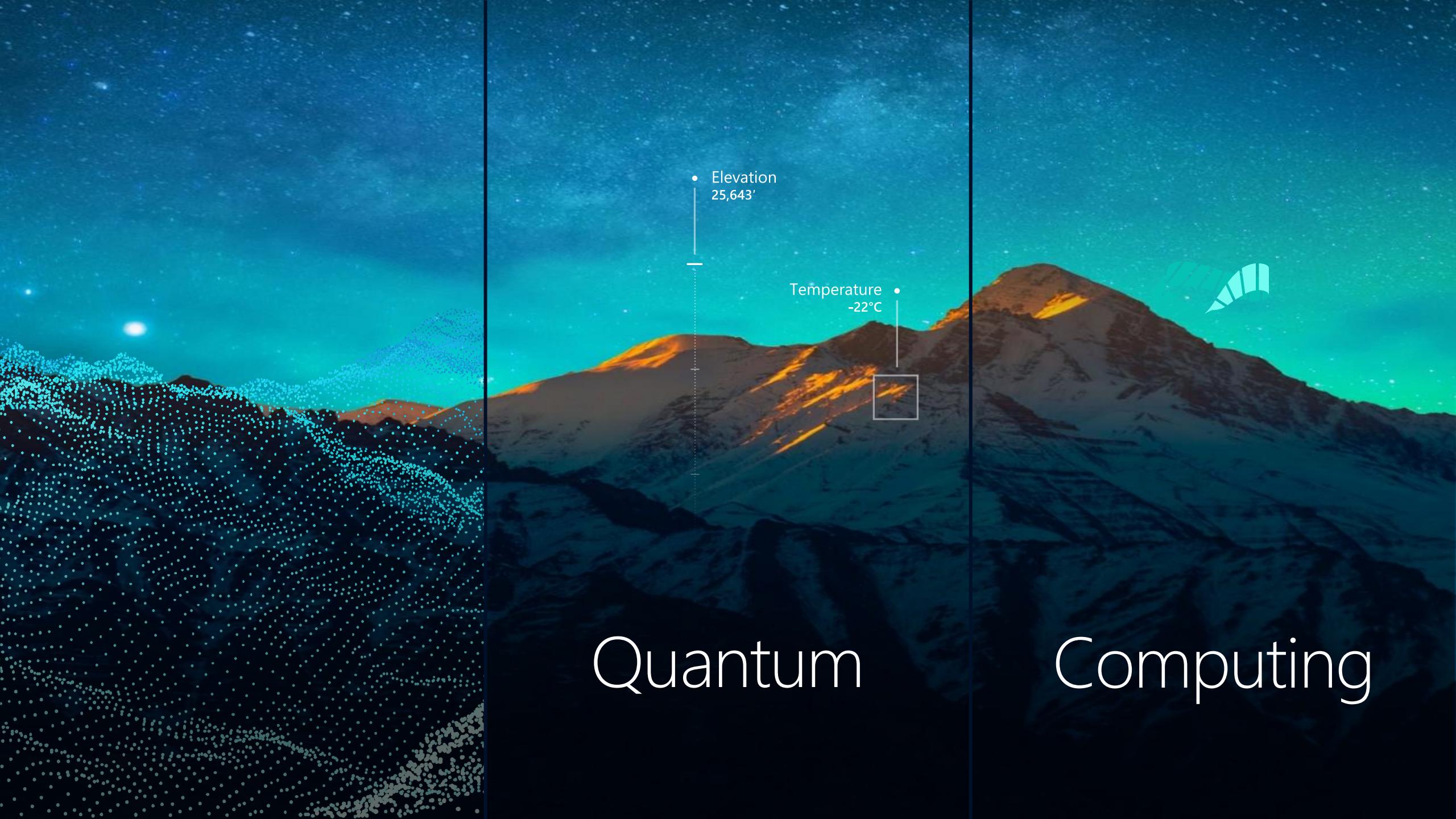
### MICROSOFT OFFICIAL ACADEMIC COURSE

The MSIA Program includes access to MOAC training materials on Microsoft Office and MTA. The MOAC series includes an integrated program of Student e-books, and instructor resources designed for classes taught over a period of 6 to 16 weeks. MOAC course materials cover Microsoft Certification exam objectives through lessons based on real-world scenarios and hands-on practice exercises. MOAC provides Educators with academic content to plan, prepare, and conduct hands-on classes, including course setup ideas, lecture outlines, teaching tips, PowerPoint presentations, and instructor guides. Access to MOAC is available through the MSIA member site.



# Next Steps

- Think about your role and future career development
- Explore Microsoft Learn based on your role
- Look at resources in Services Hub, Enterprise Skilling Initiative (exams and courses)
- Share Learning as part of your development plans



Quantum

Computing



1



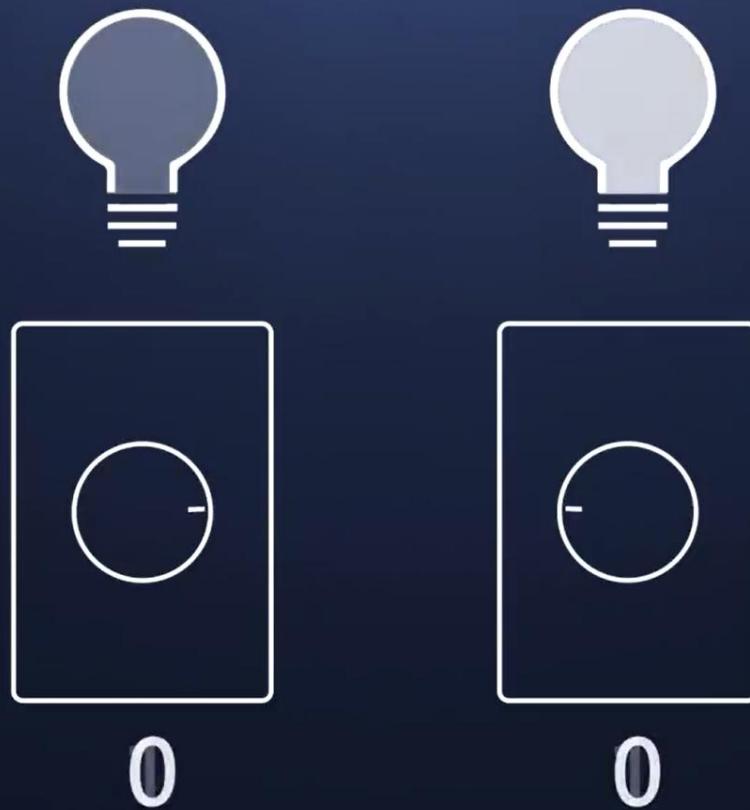
0



0



1



2 Qubit

A photograph of a brown tabby cat sitting inside a cardboard box. The box has the words "Schrödinger's CAT" printed on it. A white hexagonal grid is overlaid on the image, with several hexagons filled with the cat's face and others containing mathematical symbols.

Schrödinger's  
CAT

$$\Delta x \Delta p = \frac{\hbar}{2}$$



25 July 2017

## Station Q Sydney



University of Sydney

MICROSOFT CONFIDENTIAL



# Thank you

t:dan\_bowen

e: dabowen@microsoft.com

