

# Course Conclusion



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# Types of Cloud Computing Services

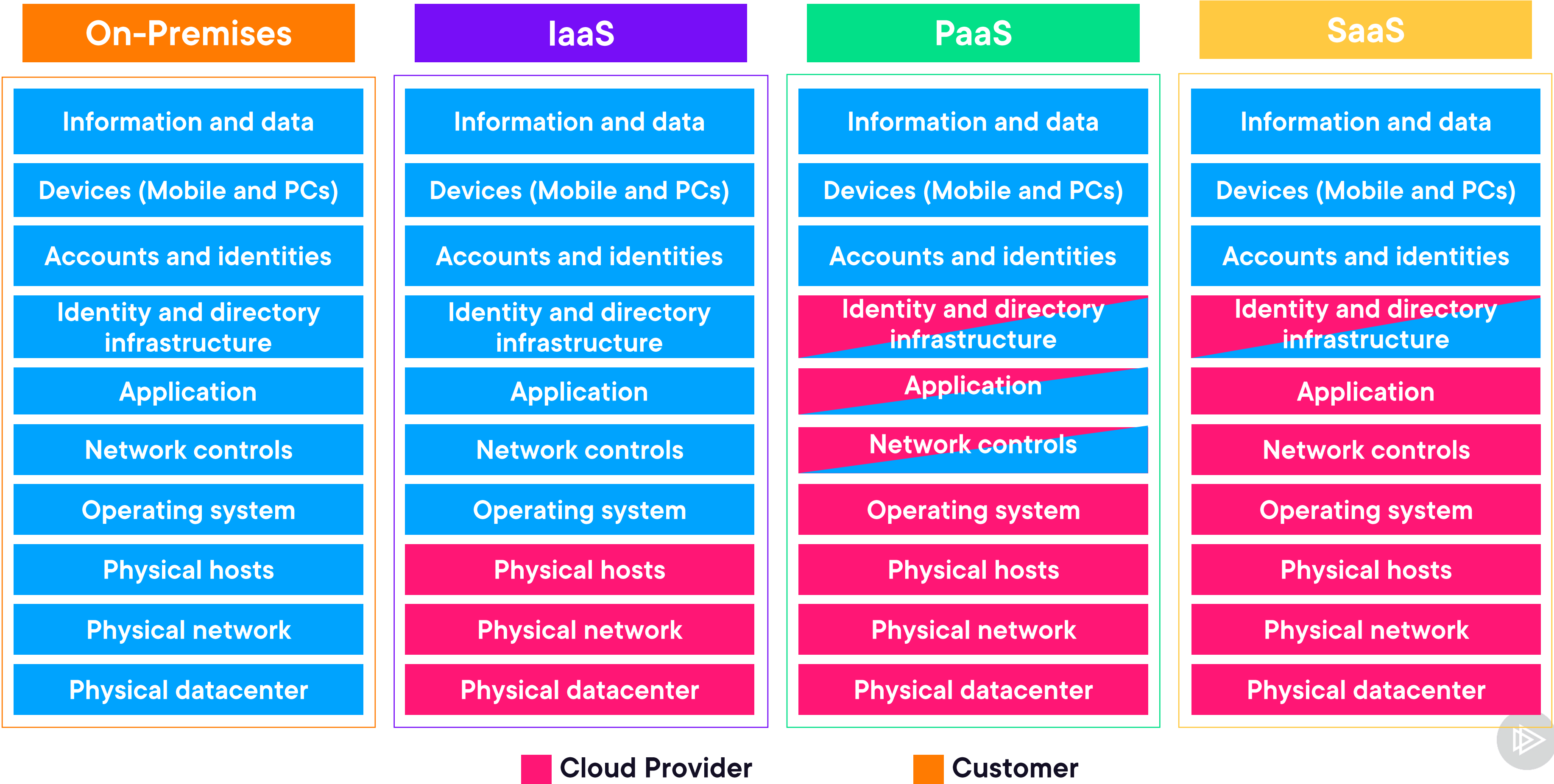
**Infrastructure  
as a Service  
(IaaS)**

**Platform  
as a Service  
(PaaS)**

**Software  
as a Service  
(SaaS)**



# Who Secures What? – The Shared Responsibility Model



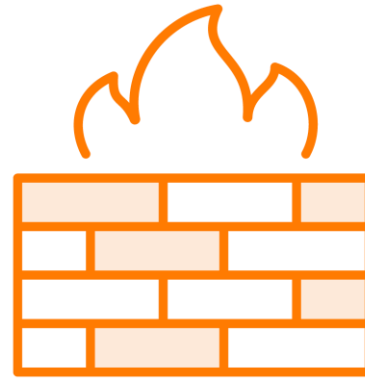
**It's your duty to know what  
your security  
responsibilities are for each  
type of workload you  
leverage in the cloud**



# Common Security Threats



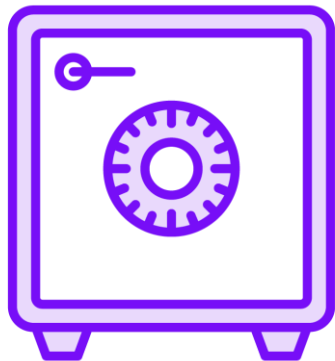
**Data breach**



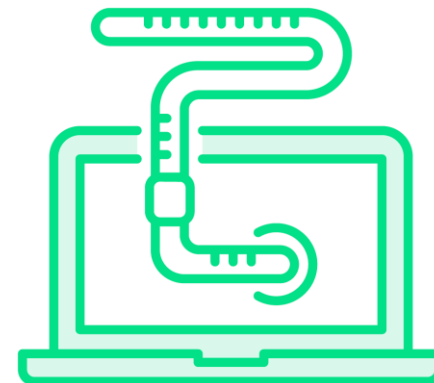
**Disruptive attacks**



**Dictionary attack**  
*aka Brute Force Attack*



**Ransomware**



**Worms**



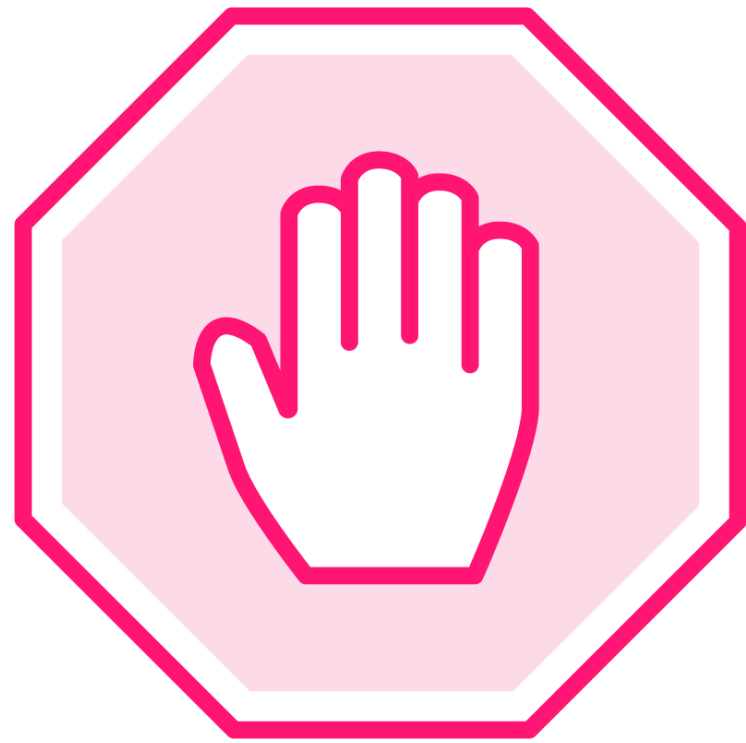
**Coin miners**  
*aka Cryptojacking*



**Zero trust assumes there is no implicit trust granted to assets or user accounts based solely on their physical or network location (i.e., local area networks versus the internet) or based on asset ownership (enterprise or personally owned).**



# Zero Trust Guiding Principles



**Verify Explicitly**



**Least Privileged  
Access**



**Assume Breach**



# Defense in Depth

Use a layered approach, rather than relying on a single perimeter

If one layer is breached – a subsequent layer will prevent an attacker getting access to the data

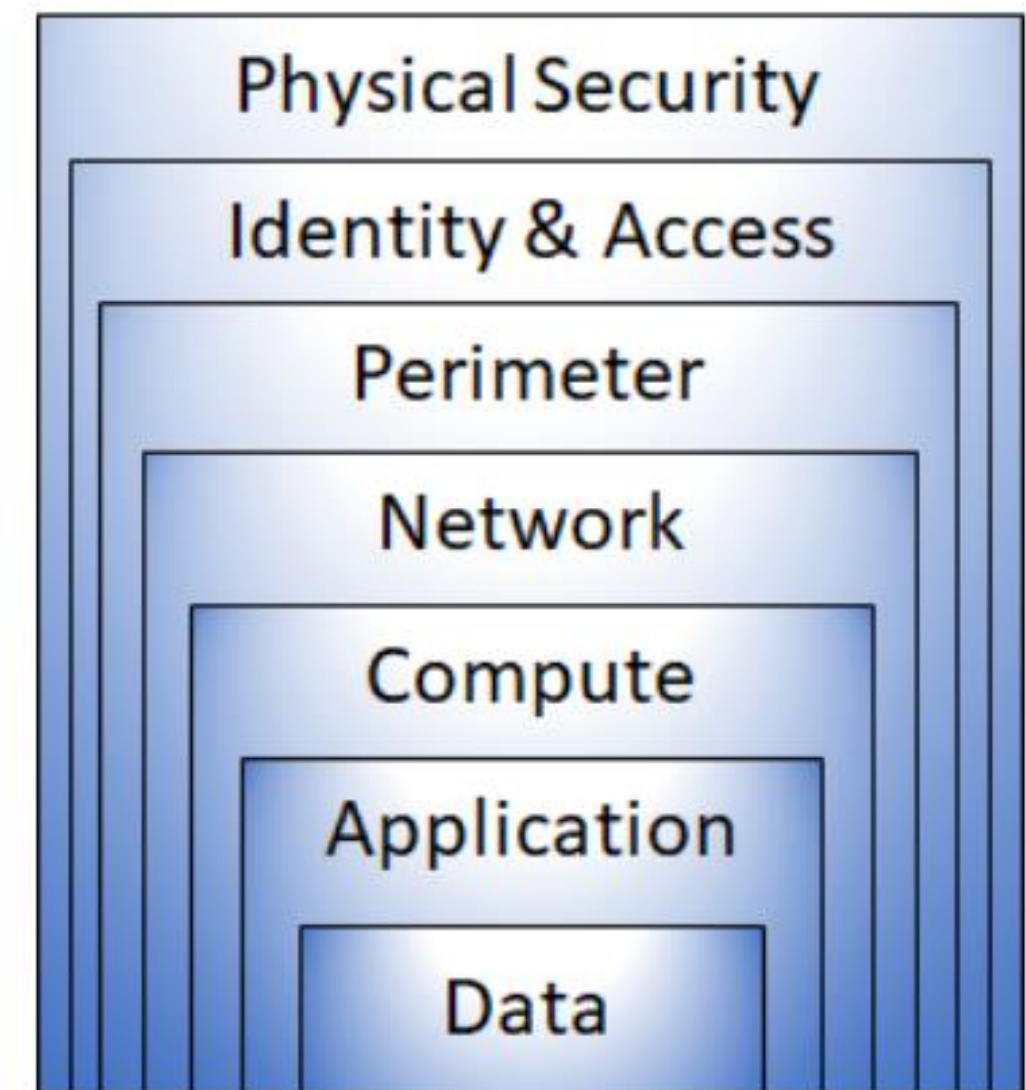
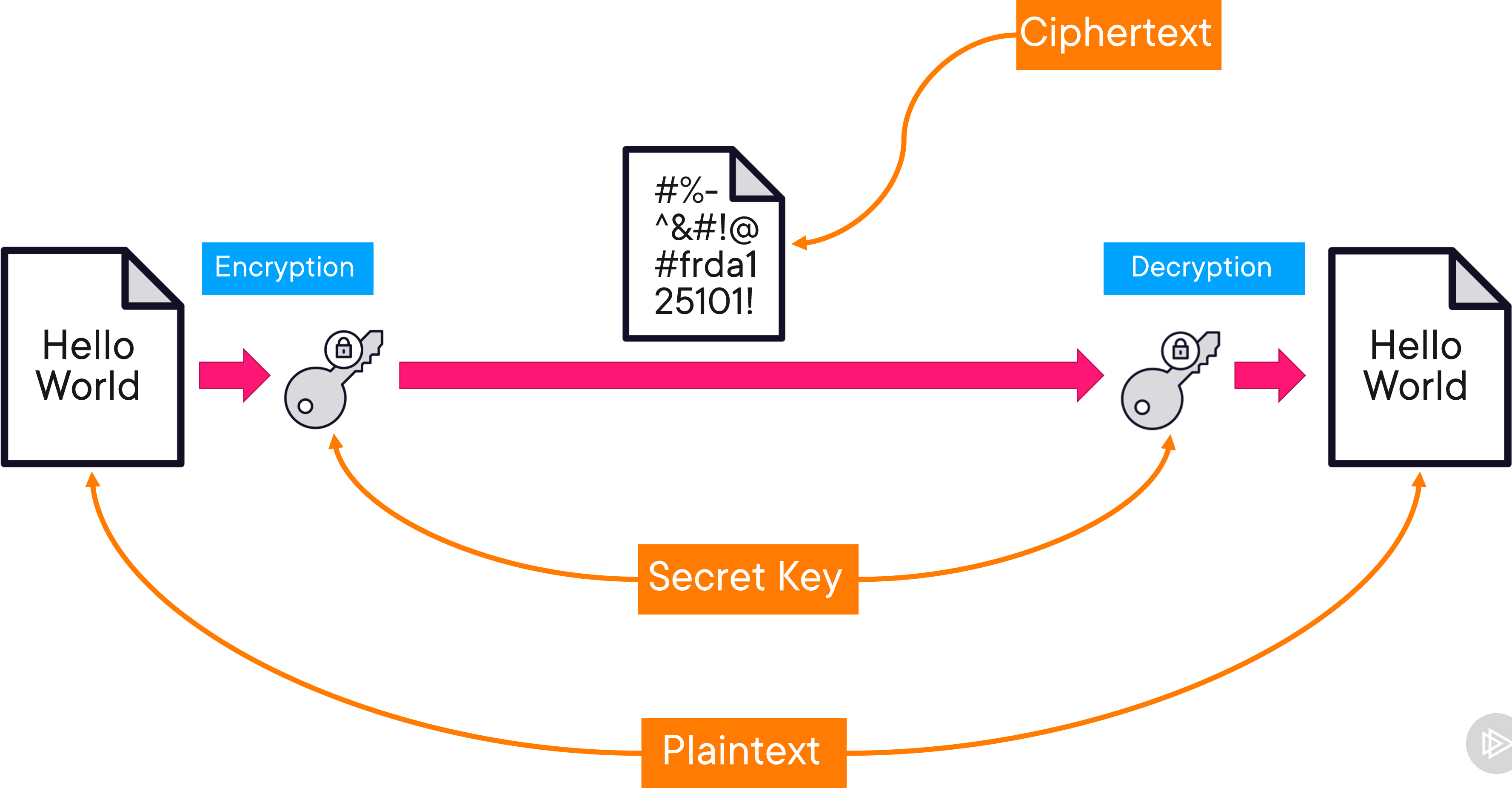


Image Source: Microsoft©

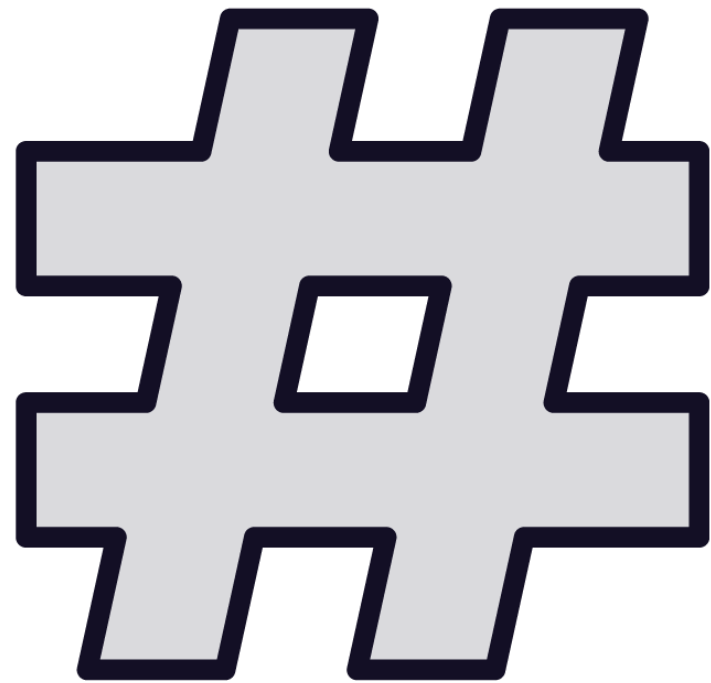




# Encryption Basics



# Hashing



Using an algorithm to map data of any size to a *unique* fixed length value

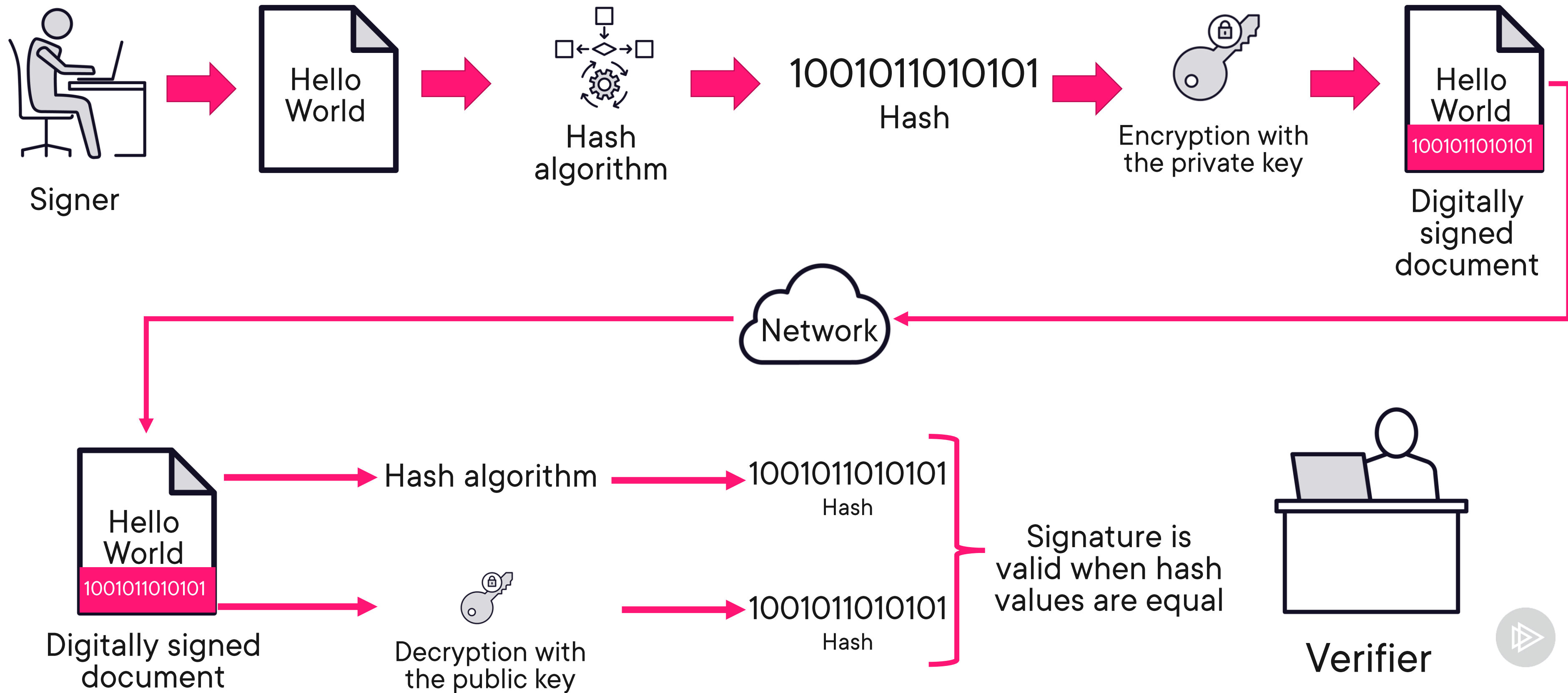
The hash can be used as a unique identifier of its associated data

Hashing is deterministic

- Same input produces the same output
- Changing anything in the input will produce a different hash



# Digital Signatures



# Authentication and Authorization



## Authentication

Confirms users are who they say they are

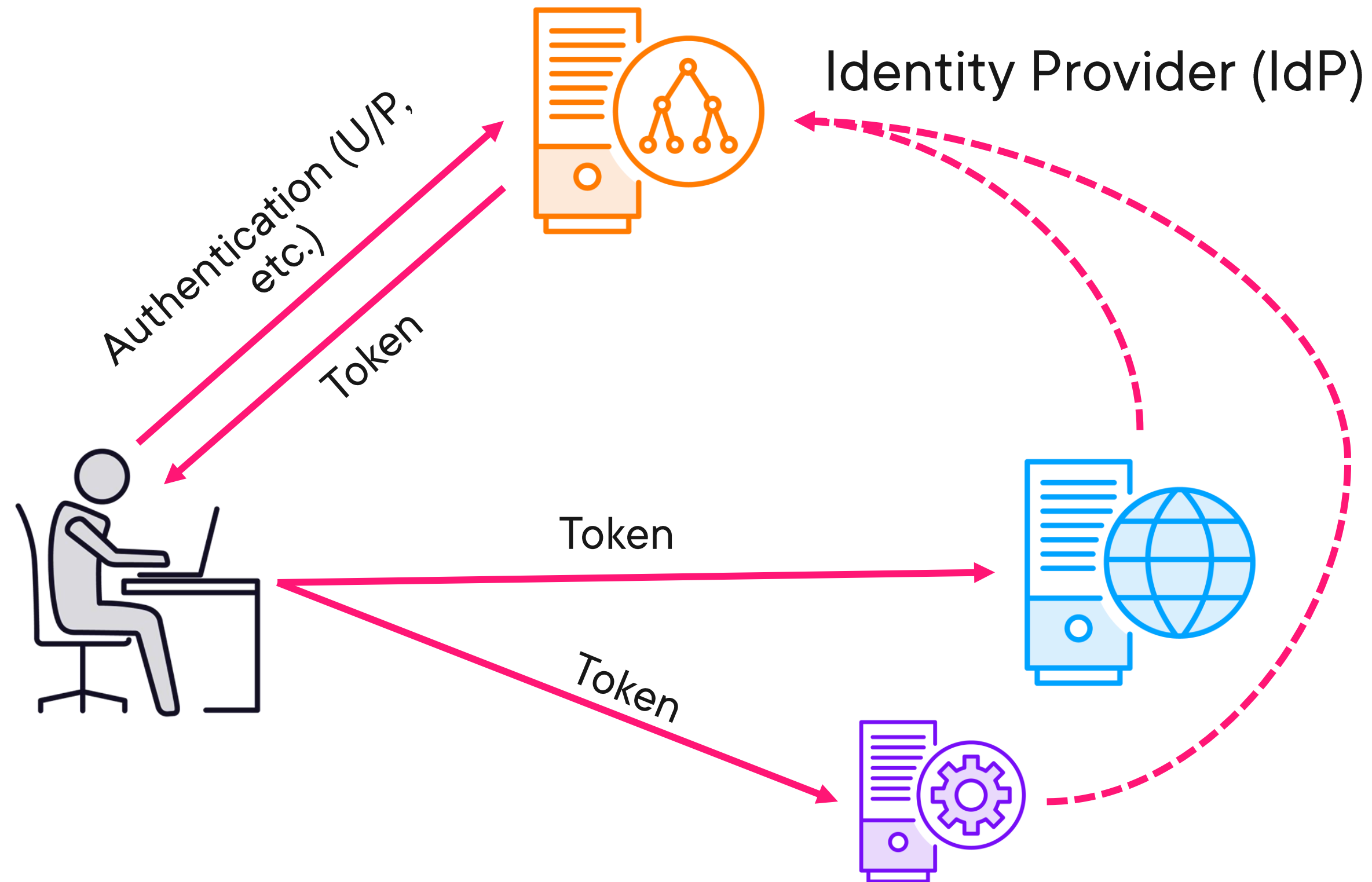


## Authorization

Checks if users are allowed to access a resource



# Modern Authentication



# Federation

## Create an account

First Name

Last Name

Email


Password


☐ Show


When you Register, you agree to our [User Agreement](#) and acknowledge reading our [User Privacy Notice](#).


Register

or

Continue with Google

Continue with Facebook

Continue with Apple

PLURALSIGHT

Email or Username

Password

Sign in

Forgot password?

Sign in with company or school



# Introduction to Directory Services

**Customizable information store**

**Functions as a single point where users can locate resources across the network**

Users and groups

Devices

Printers

And more

**Single point for administrators to manage all those resources**





# Regulatory Compliance for IT Professionals



Set of digital security requirements and practices

Ensure that a company's business processes are secure

Usually done to satisfy a third party

- Government
- Security framework
- Client



**Helps organizations establish policies and practices to minimize compliance risk**

**It's a way to get everyone aligned on business objectives**

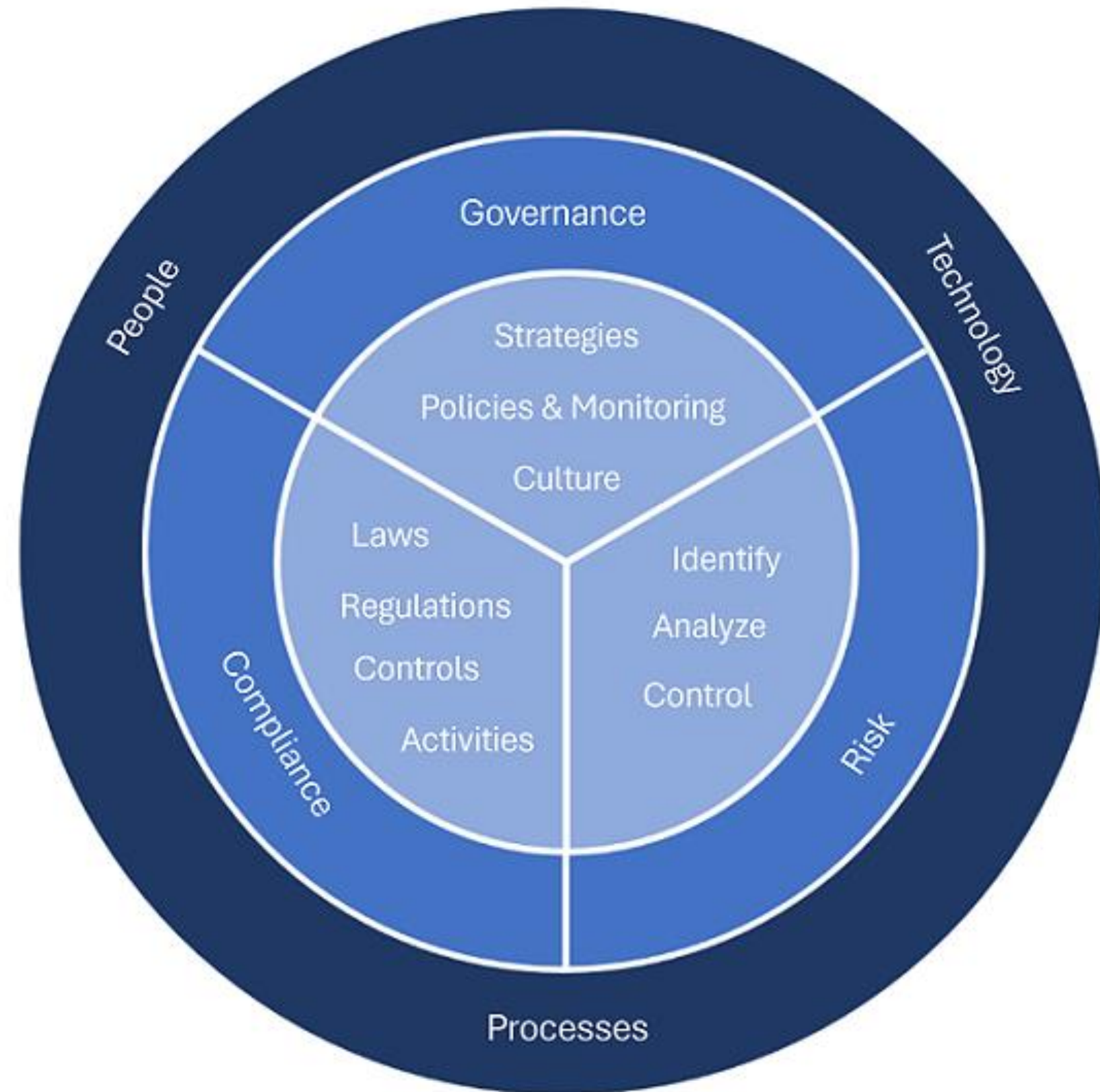
Senior executives

Legal teams

Finance and HR managers

IT departments

**Microsoft has many tools that can be part of your GRC policies**



# Learn More About Microsoft Security, Compliance, and Identity



**This course is part of the SC-900 Microsoft Certification path on Pluralsight**

- All the fundamentals of Security, Compliance, and Identity in the Microsoft cloud

**Deep dive in specific concepts we talked about in this course**

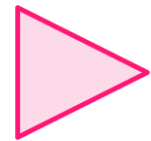
- Zero Trust Architecture path
- Governance, Risk, and Compliance (GRC) path



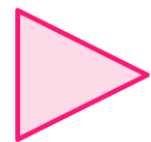
# SC-900 Certification Path on Pluralsight



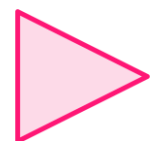
**Microsoft Security, Compliance, and Identity Fundamentals: Concepts**



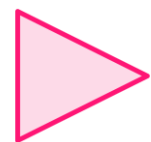
**Microsoft Security, Compliance, and Identity Fundamentals: Identity and Access Management Solutions**



**Microsoft Security, Compliance, and Identity Fundamentals: Security Solutions**



**Microsoft Security, Compliance, and Identity Fundamentals: Compliance Solutions**

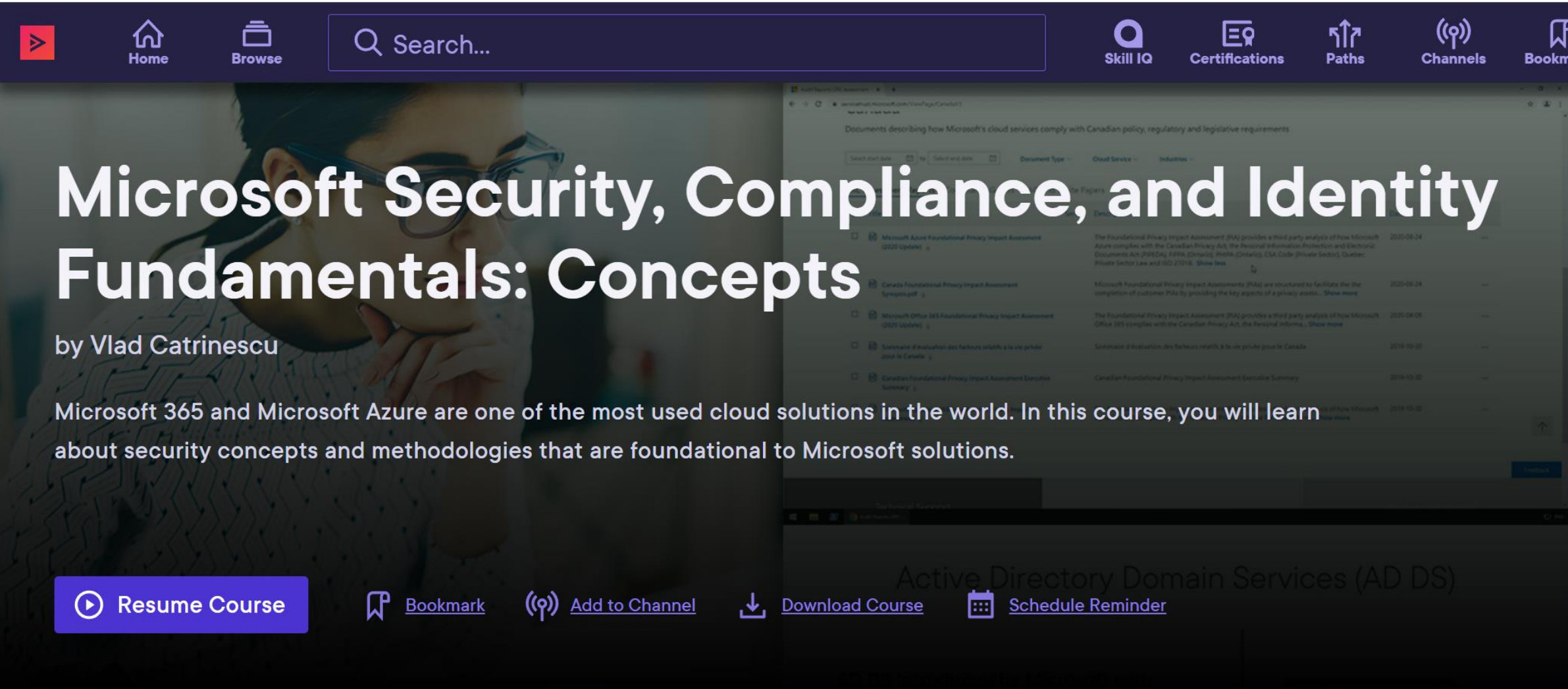


**Microsoft Security, Compliance, and Identity Fundamentals (SC-900): Exam Prep**





# Tip: Download the Slides



## Microsoft Security, Compliance, and Identity Fundamentals: Concepts

by Vlad Catrinescu

Microsoft 365 and Microsoft Azure are one of the most used cloud solutions in the world. In this course, you will learn about security concepts and methodologies that are foundational to Microsoft solutions.


[Resume Course](#) [Bookmark](#) [Add to Channel](#) [Download Course](#) [Schedule Reminder](#)

Table of contentsDescriptionTranscript**Exercise files**DiscussionRelated Courses

These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer.

[Download exercise files](#)

Course author

**Vlad Catrinescu**

Vlad is an Office 365 consultant helping organizations get the most out their Microsoft 365 Digital Workplace. IT Professional at heart, Vlad focuses on helping administrators deploy, manage,...

Course info

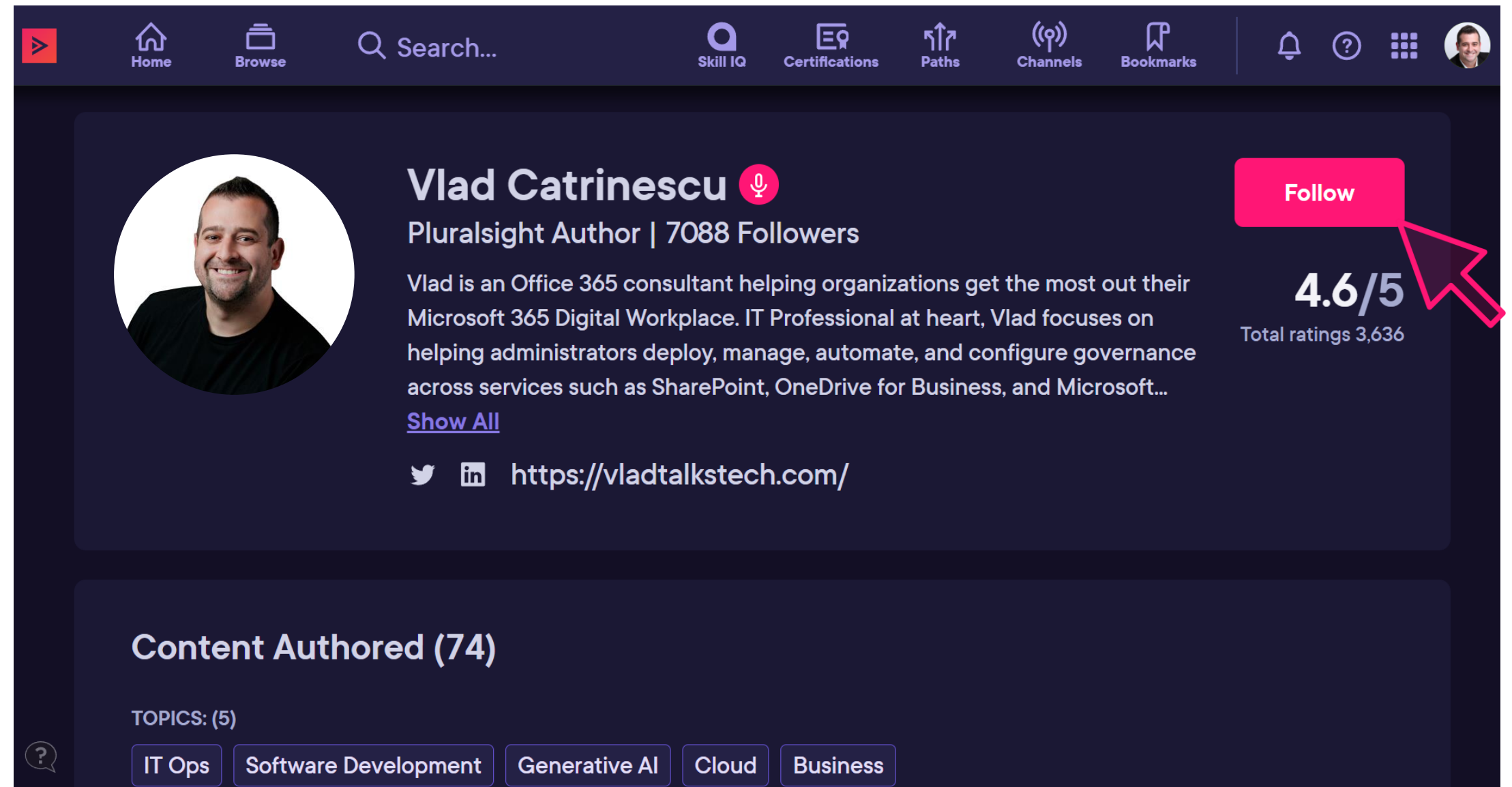
Level	Intermediate
Rating	★★★★★ (48)
My rating	★★★★★
Duration	1h 20m
Released	8 Jun 2021
Reviewed	15 Dec 2022

Available under the Exercise files tab on the course page




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The screenshot shows the Pluralsight profile of Vlad Catrinescu. The profile includes a circular profile picture of a man with a beard and short hair. To the right of the picture, the name "Vlad Catrinescu" is displayed in a large, bold font, followed by a microphone icon. Below the name, it says "Pluralsight Author | 7088 Followers". A paragraph of text describes Vlad as an Office 365 consultant helping organizations get the most out of their Microsoft 365 Digital Workplace. It mentions his focus on helping administrators deploy, manage, automate, and configure governance across services like SharePoint, OneDrive for Business, and Microsoft... A link labeled "Show All" is provided. Below the text, there are icons for Twitter and LinkedIn, followed by the URL "https://vladtalkstech.com/". On the right side of the profile, there is a pink "Follow" button. Below the button, the rating "4.6/5" is shown, with "Total ratings 3,636" underneath. The top navigation bar of the Pluralsight app is visible, featuring icons for Home, Browse, Search, Skill IQ, Certifications, Paths, Channels, and Bookmarks, along with a notification bell, a help icon, and a user profile icon. At the bottom of the profile section, it says "Content Authored (74)" and "TOPICS: (5)". Below this, there are five topic tags: "IT Ops", "Software Development", "Generative AI", "Cloud", and "Business".

**Vlad Catrinescu** 

Pluralsight Author | 7088 Followers

Vlad is an Office 365 consultant helping organizations get the most out their Microsoft 365 Digital Workplace. IT Professional at heart, Vlad focuses on helping administrators deploy, manage, automate, and configure governance across services such as SharePoint, OneDrive for Business, and Microsoft...

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