



**Live  
Session  
18<sup>th</sup> May  
9.00 AM  
UK TIME**

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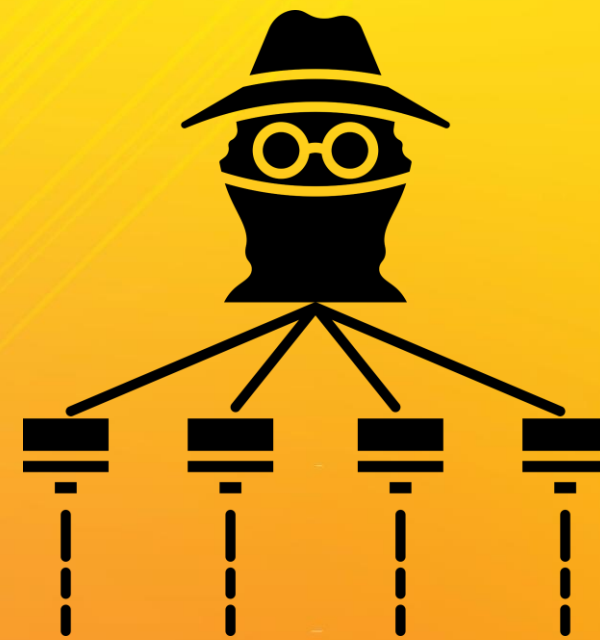
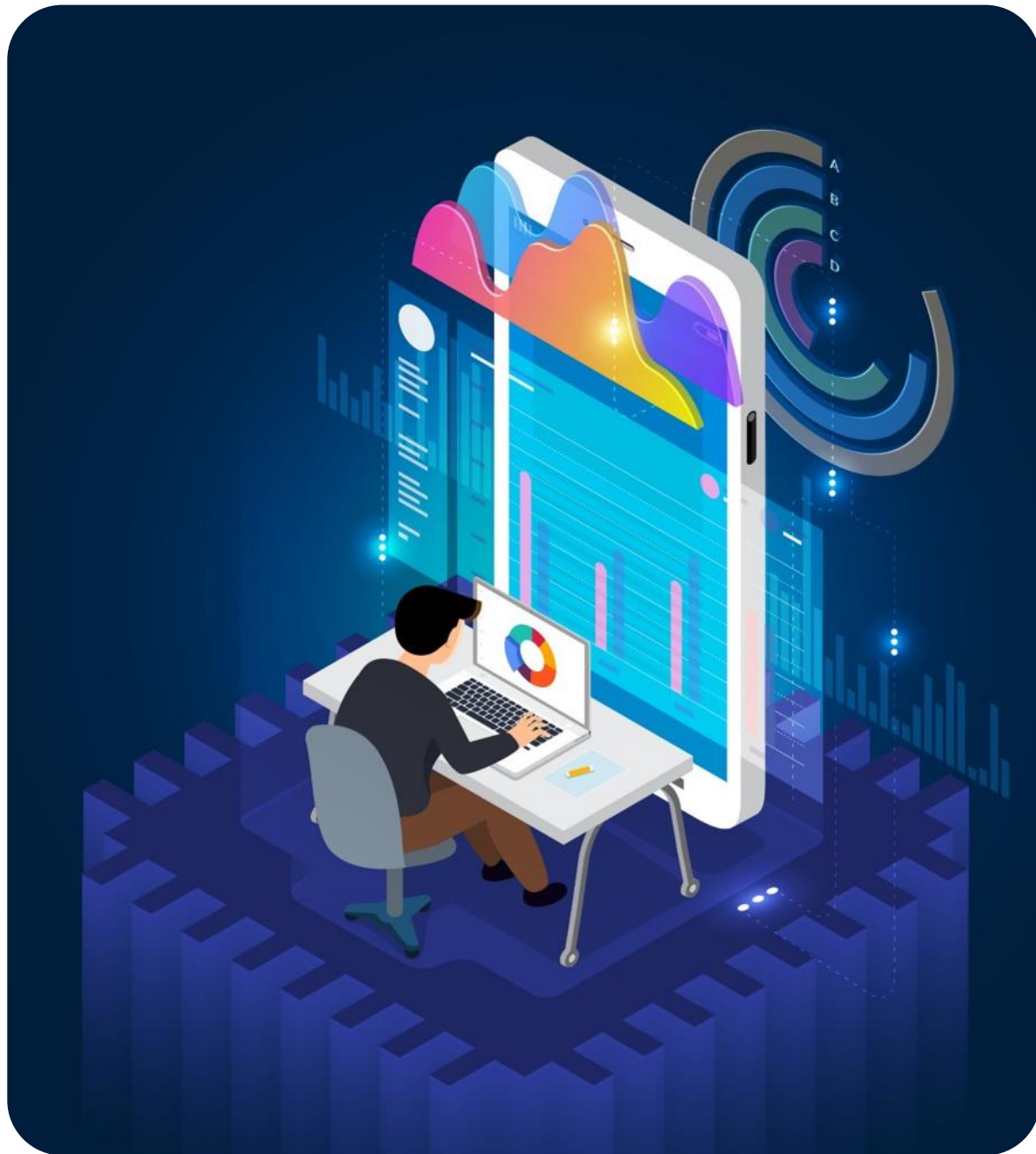
**FIRE**

**THE GREAT WALL**



Analogies



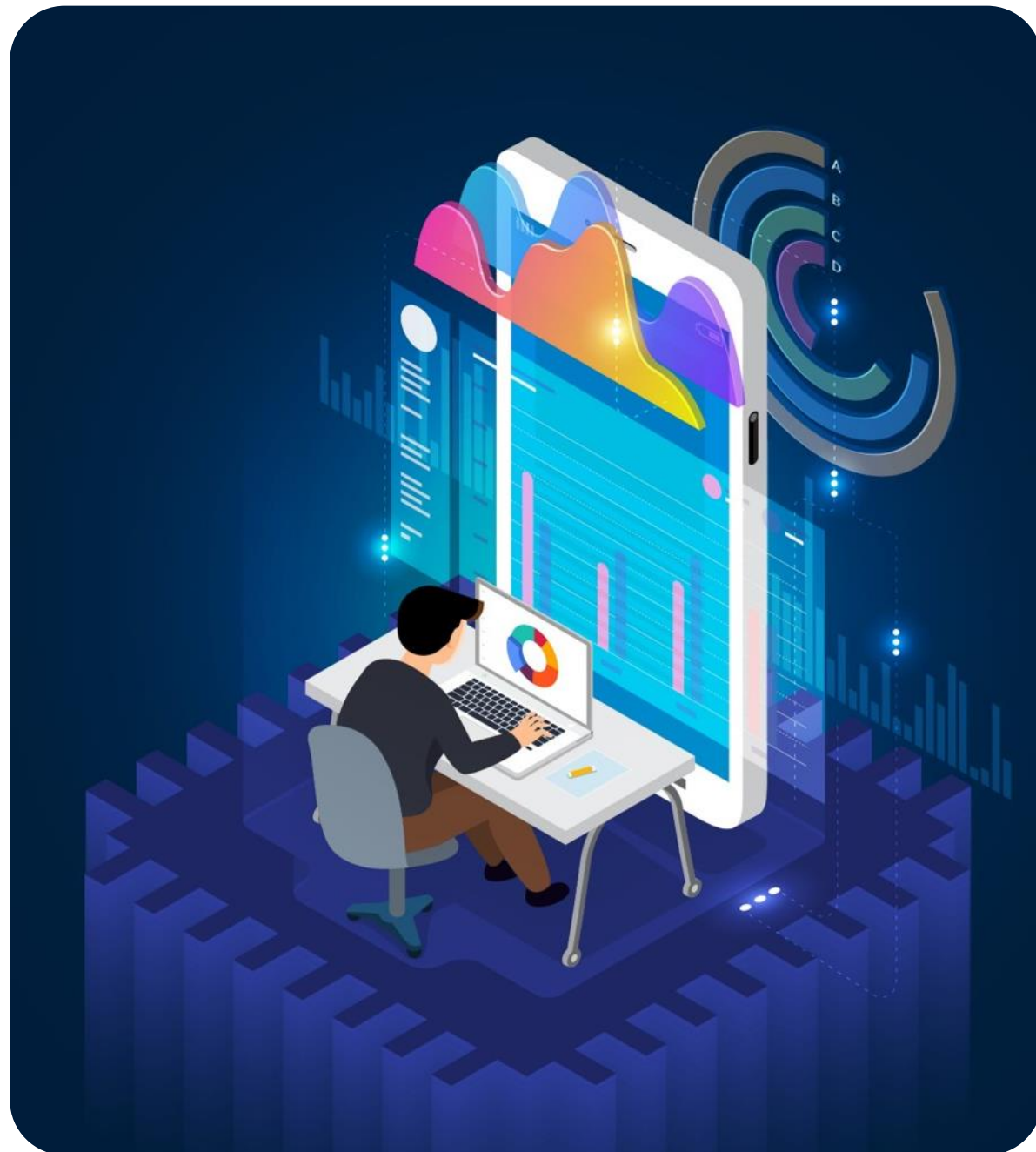


DDoS Attack

# An Analogy – DDoS Attack

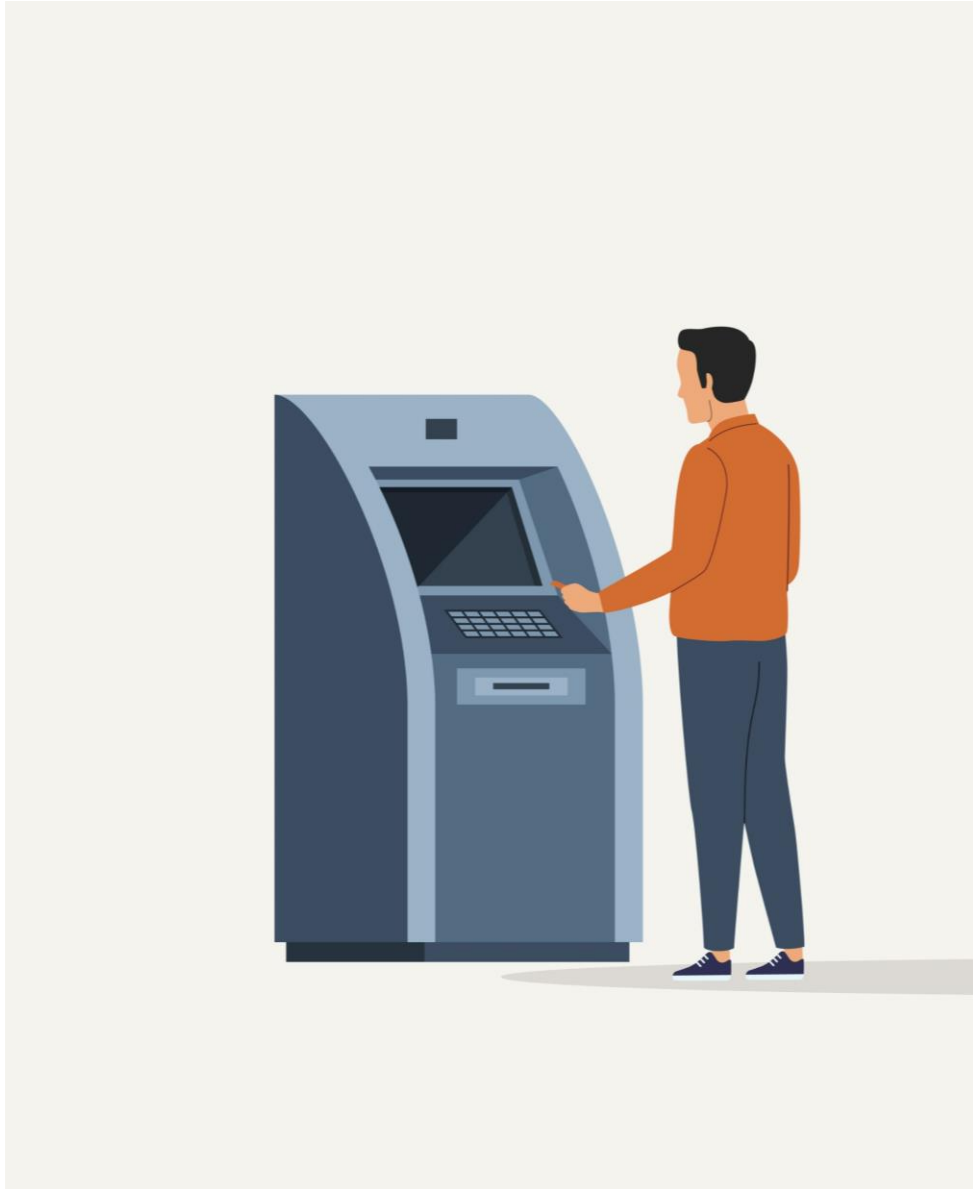
- DDoS Attack
  - **The Thomas Crown Affair 1999 Final Heist**
    - <https://www.youtube.com/watch?v=Y5OJmNmmhV4>





## Authentication & Authorization

# Authentication, Authorization, Accountability



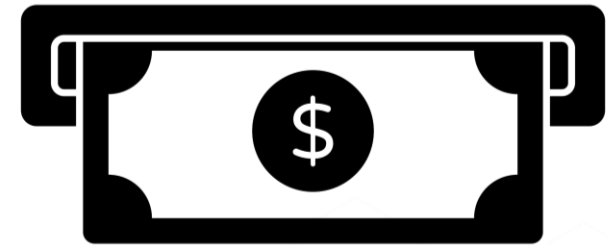
## **Authentication**

- Who you are?



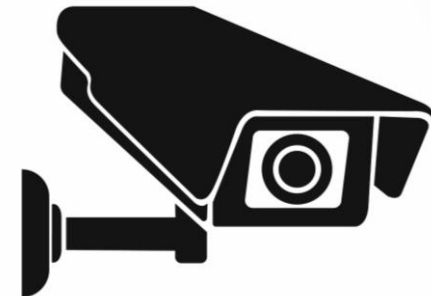
## **Authorization**

- What can you do?



## **Accountability**

- Who did that?





# Authentication & Authorization



## Passport

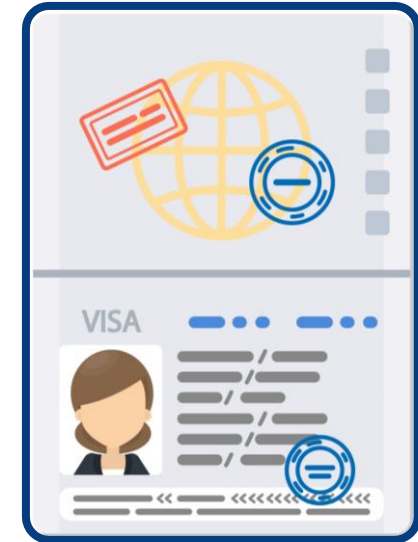


## Authentication

Who you are?

- Name
- Photo
- DOB

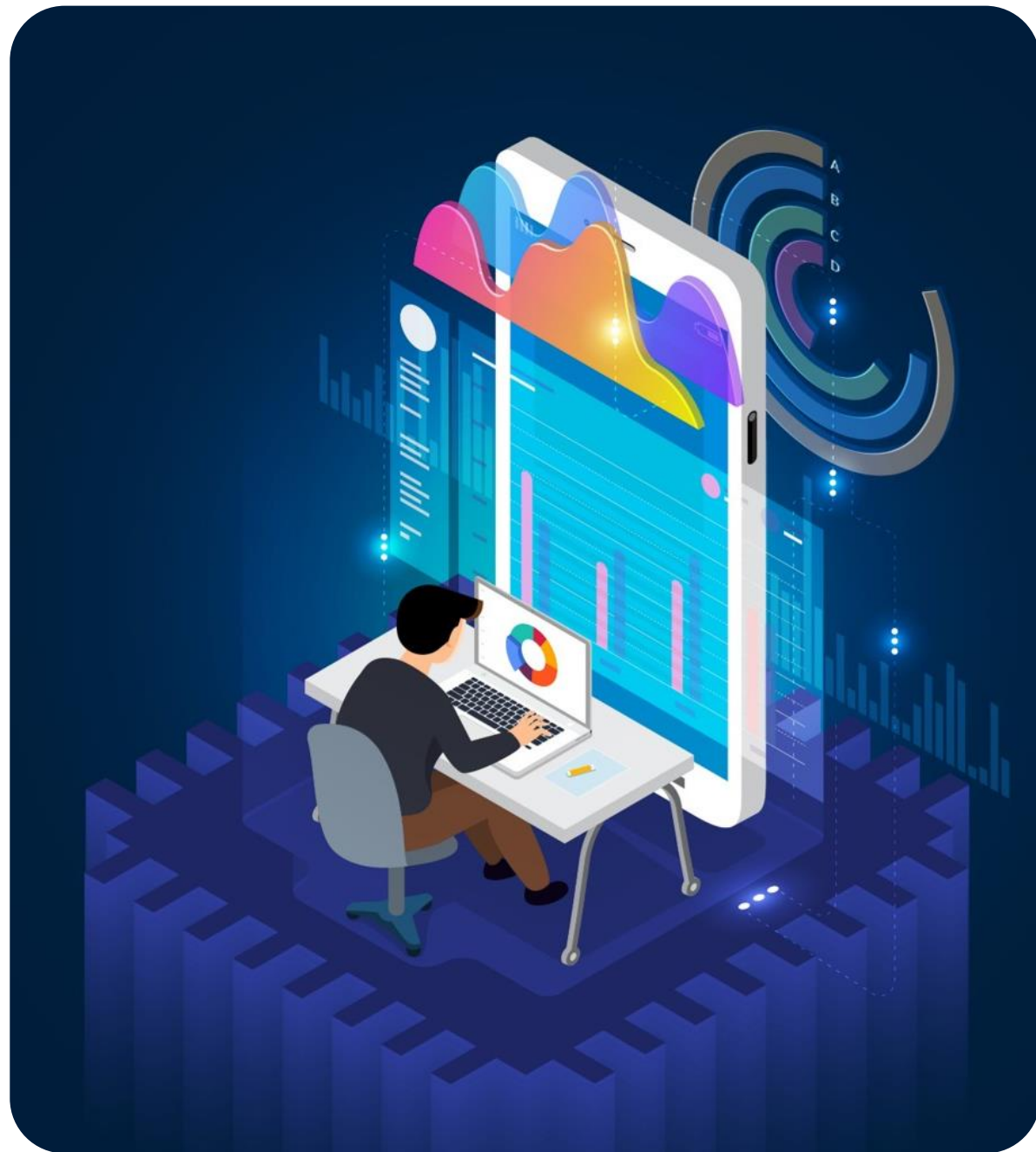
## visa



## Authorization

What can you do?

- Transit
- Work
- Tourism



Federation



# European Union Countries (EU) countries

Austria, Belgium, Bulgaria, Croatia, Republic of Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain and Sweden.



# Schengen Area



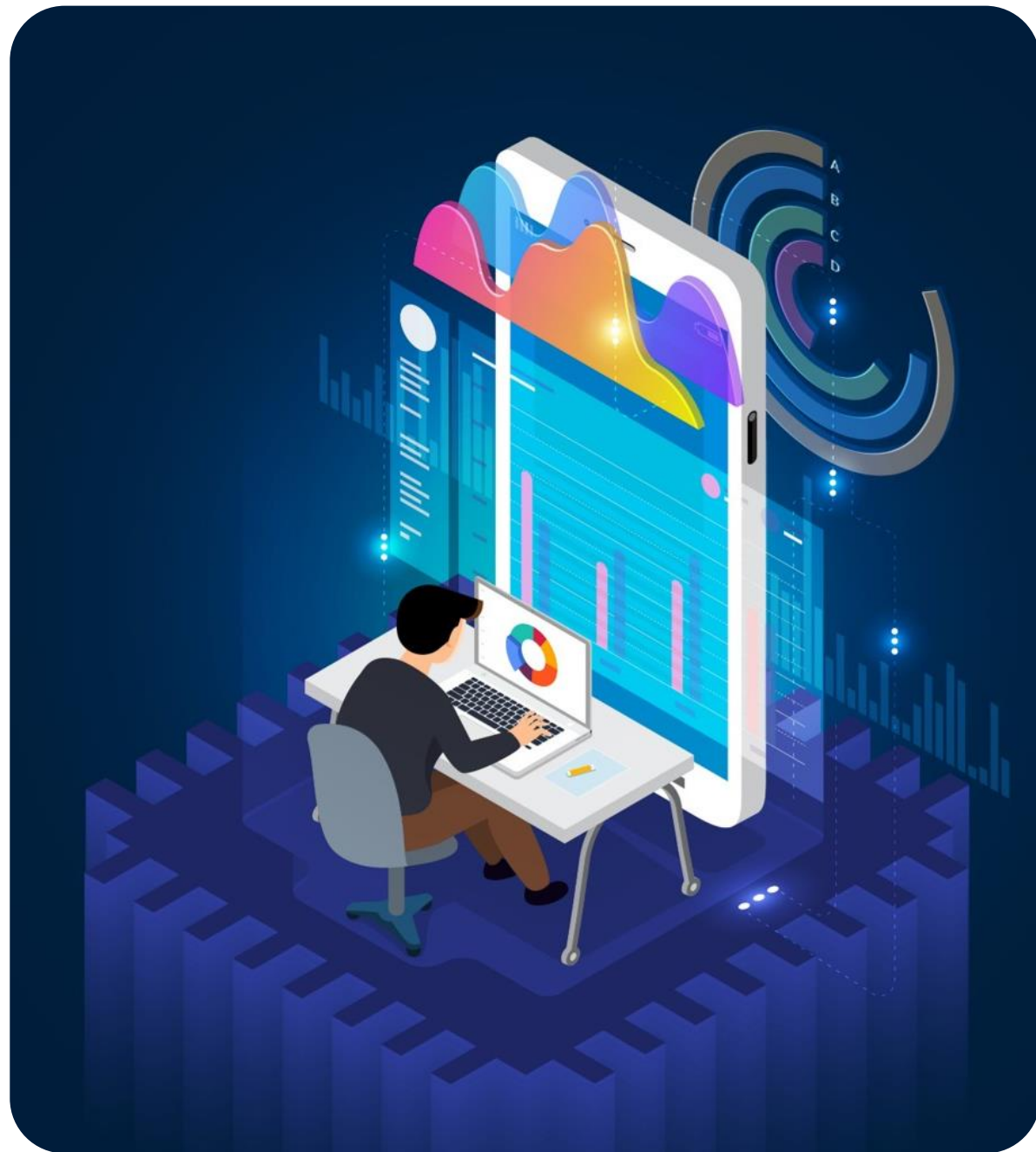
## THE SCHENGEN AREA

- The Schengen acquis** applies in its entirety to the European territories of the following EU Member States: **Belgium, Czech Republic, Germany, Estonia, Greece, Spain (including the Balearic Islands and the Canary Islands), France, Croatia, Italy, Latvia, Lithuania, Luxembourg, Hungary, Malta, the Netherlands, Austria, Poland, Portugal (including Madeira and the Azores), Slovenia, Slovakia, Finland and Sweden.**
- Denmark** is an EU Member State that has a special position with regard to the application of the Schengen acquis. It has to implement the entire Schengen acquis, not as EU law but as an obligation under international law. As a consequence, Denmark does not vote when Schengen measures are adopted by the EU.
- Iceland, Liechtenstein, Norway** (except Svalbard) and **Switzerland**, which are not EU Member States, are associated with the implementation of the Schengen acquis through Association Agreements. They have the right to be present and make suggestions during the preparation of Schengen acquis acts that are subsequently adopted by the EU institutions. They have to implement all Schengen acts after their adoption by the EU institutions and notify the Council accordingly.
- Bulgaria, Romania and Cyprus** are EU Member States bound by the entire Schengen acquis. However, they do not yet apply the parts of the acquis that concern the absence of controls at internal borders, including visas. Bulgaria and Romania are also connected to the Schengen Information System. Cyprus will be fully connected to the Schengen Information System from 23 July 2023. The controls at the internal borders with these Member States can be lifted only as a result of a decision adopted by the Council.
- Ireland** is an EU Member State which does not participate in the Schengen cooperation. However, it may request and be authorised to take part in some parts of the Schengen acquis concerning police and judicial cooperation in criminal matters. Today, Ireland provisionally applies the areas of the Schengen acquis in which it has asked to participate, including the Schengen Information System related to police.

Movements to and from **Ceuta** and **Melilla**, the **Faroe Islands** and **Greenland** are subject to specific rules.

The borders with **Andorra**, **Monaco**, **San Marino** and **Vatican City** are subject to specific control arrangements under national or international law.



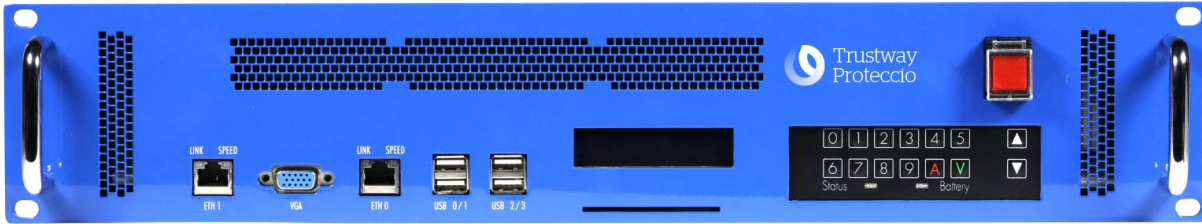


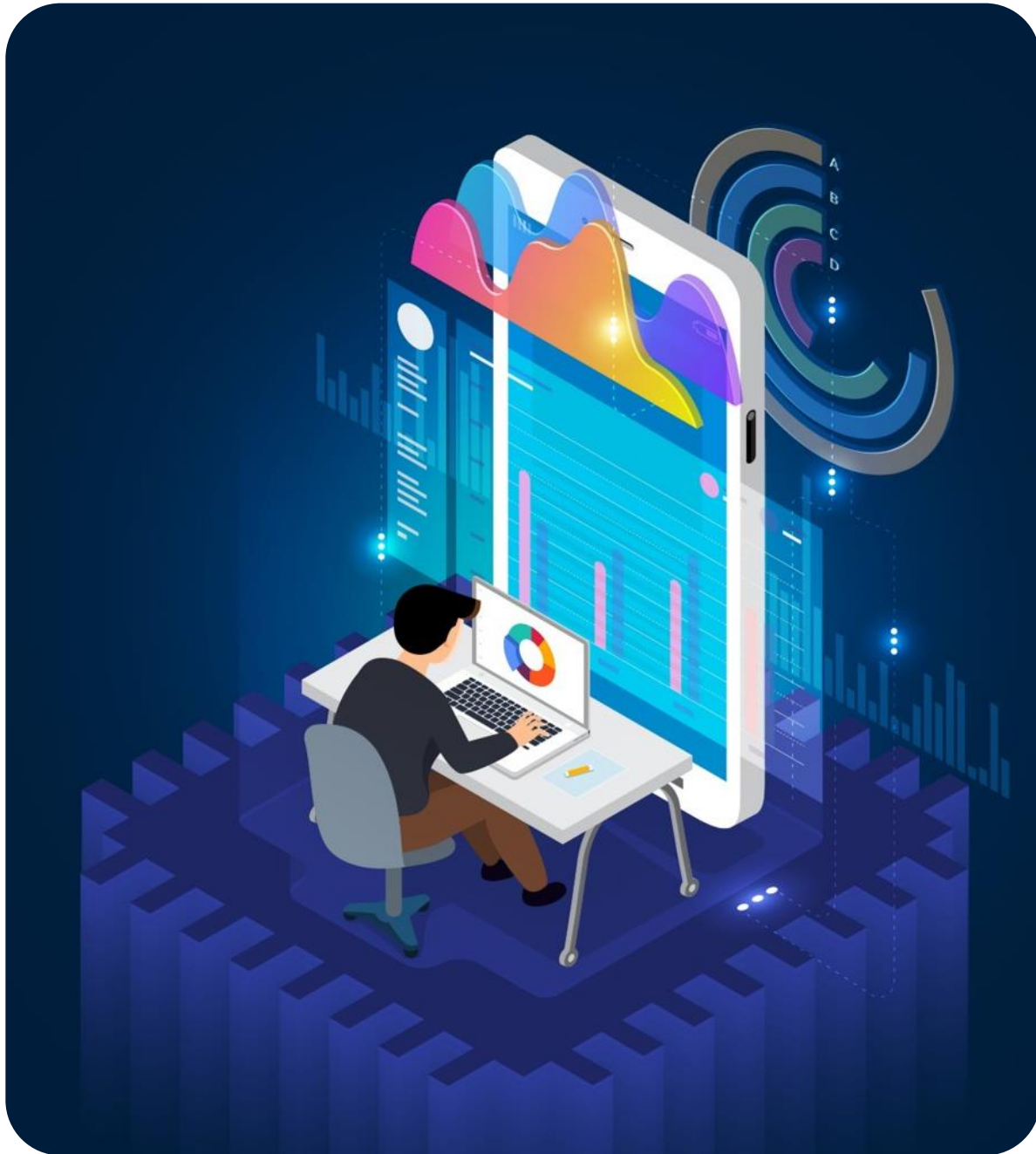
## AWS Key Management Service (KMS)



# What is a Hardware Security Module (HSM)?

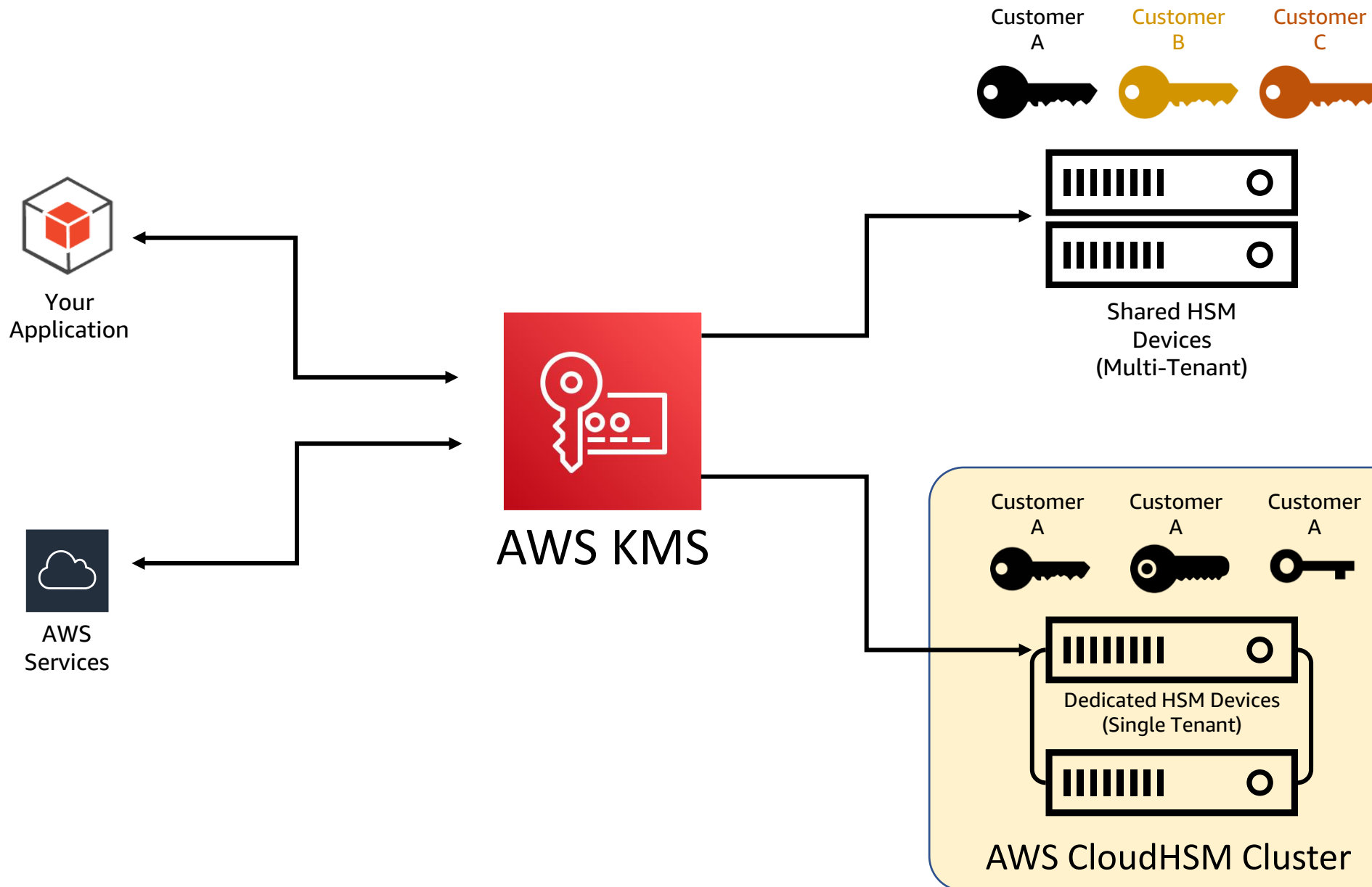
- Hardware Security Module (HSM) is a physical device which is designed to store keys safely.





AWS CloudHSM

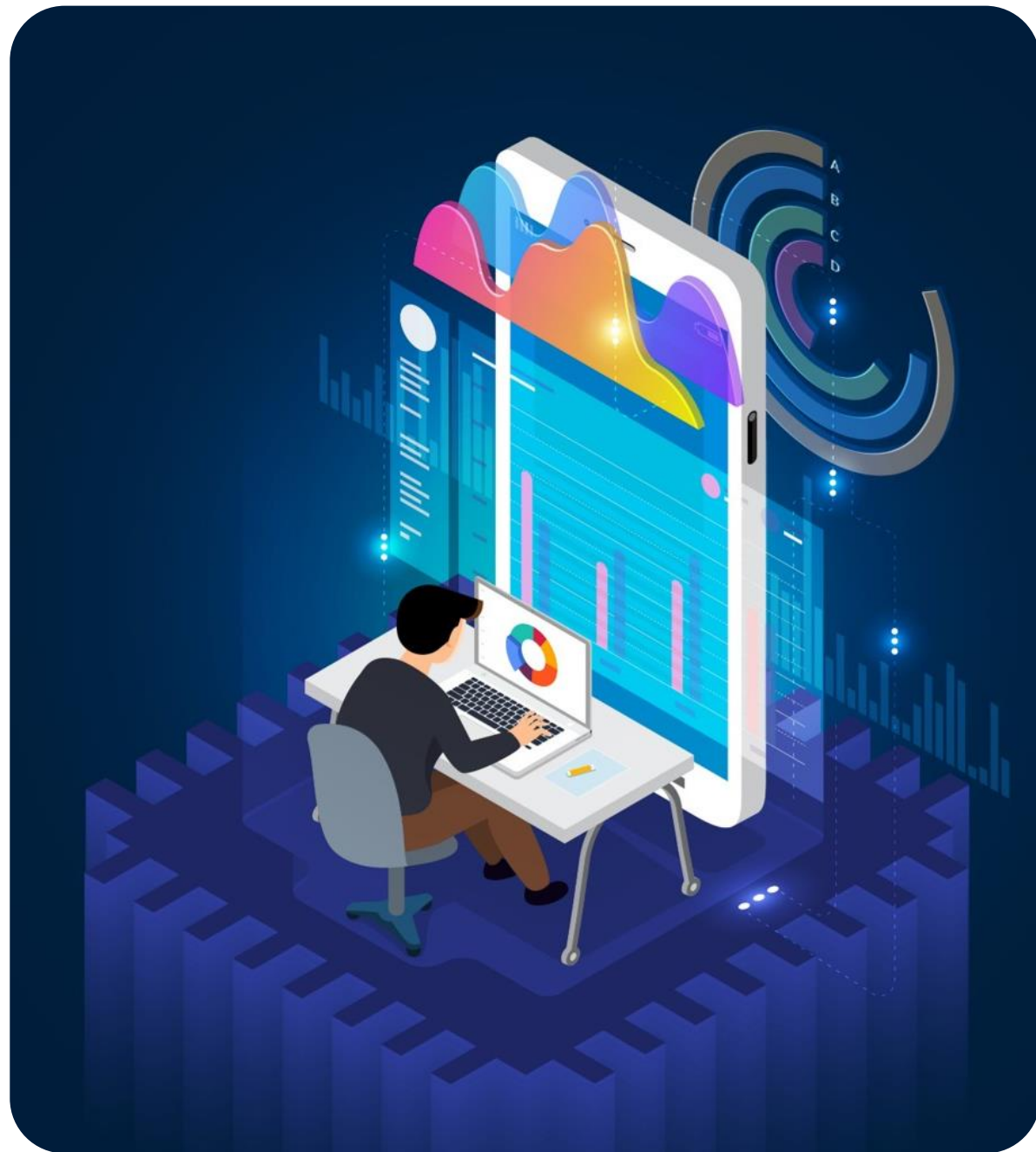
# AWS CloudHSM



AWS physically maintains the HSMs, and full logical ownership of HSM.

AWS physically maintains the HSMs, but customer get the full logical ownership of HSM.



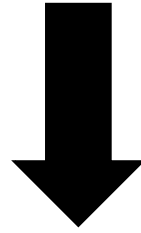


## Encryption Basics

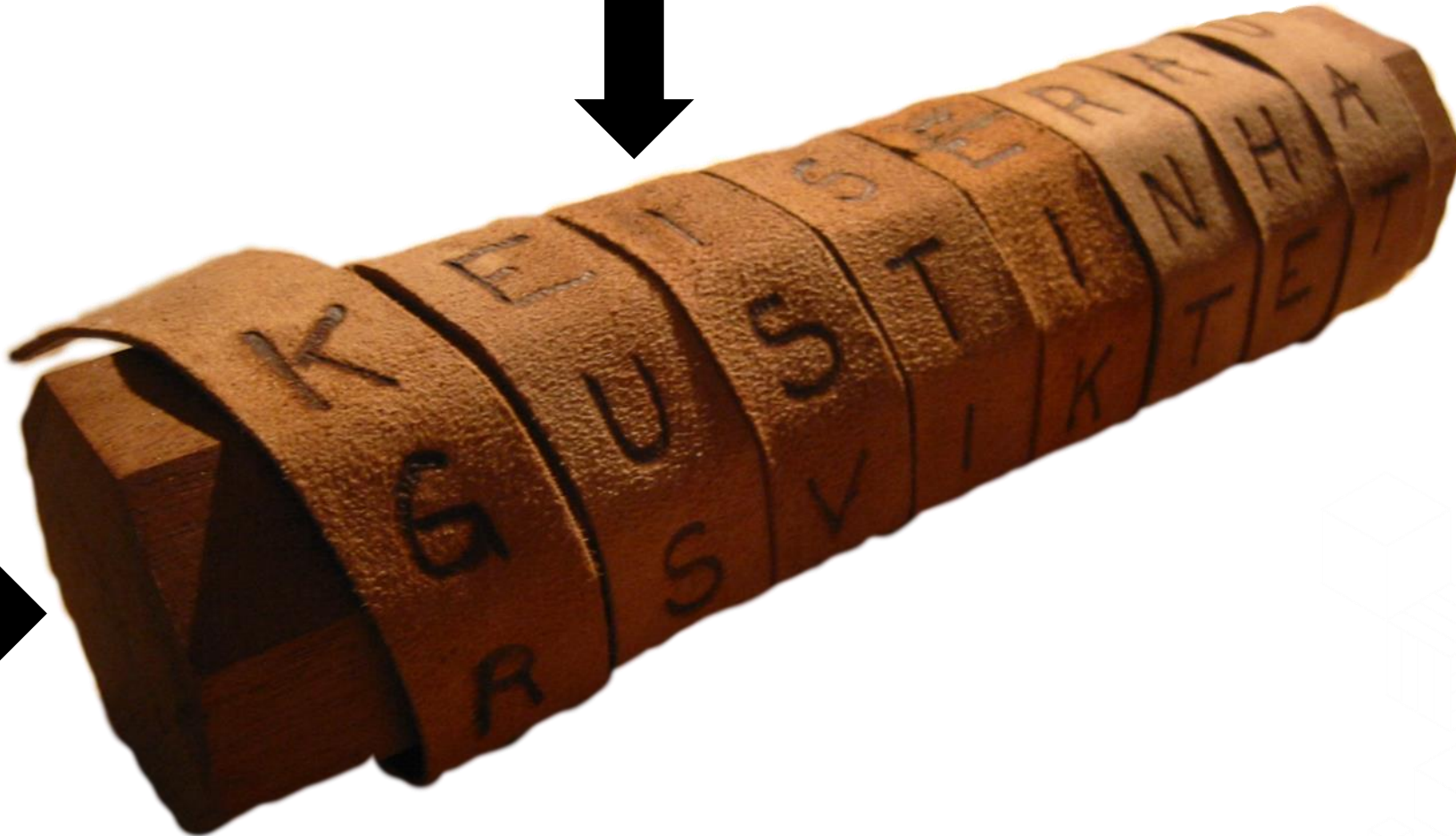
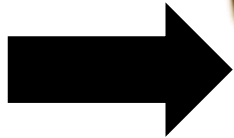
What is this?

- Scytale

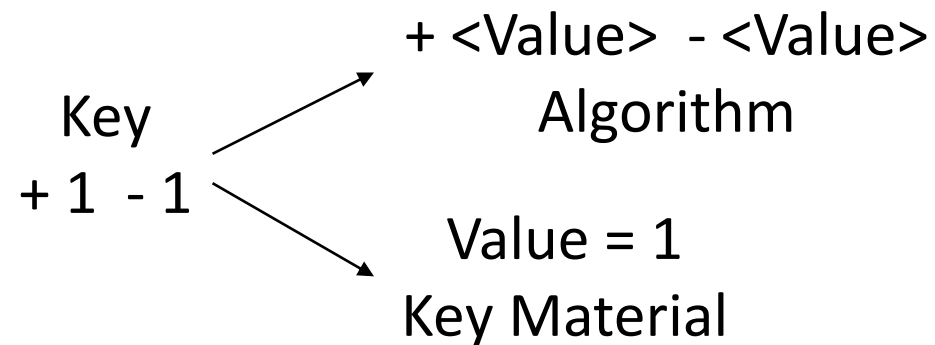
Encrypted Message



Key



# Encryption Analogy



Pin

4 5 8 2

Key

+ 1 - 1

4 5 8 2 (Plain Text)

+ 1 - 1 + 1 - 1

5 4 9 1

Cypher Text

5 4 9 1

Decrypt

5 4 9 1

- 1 + 1 - 1 + 1

4 5 8 2







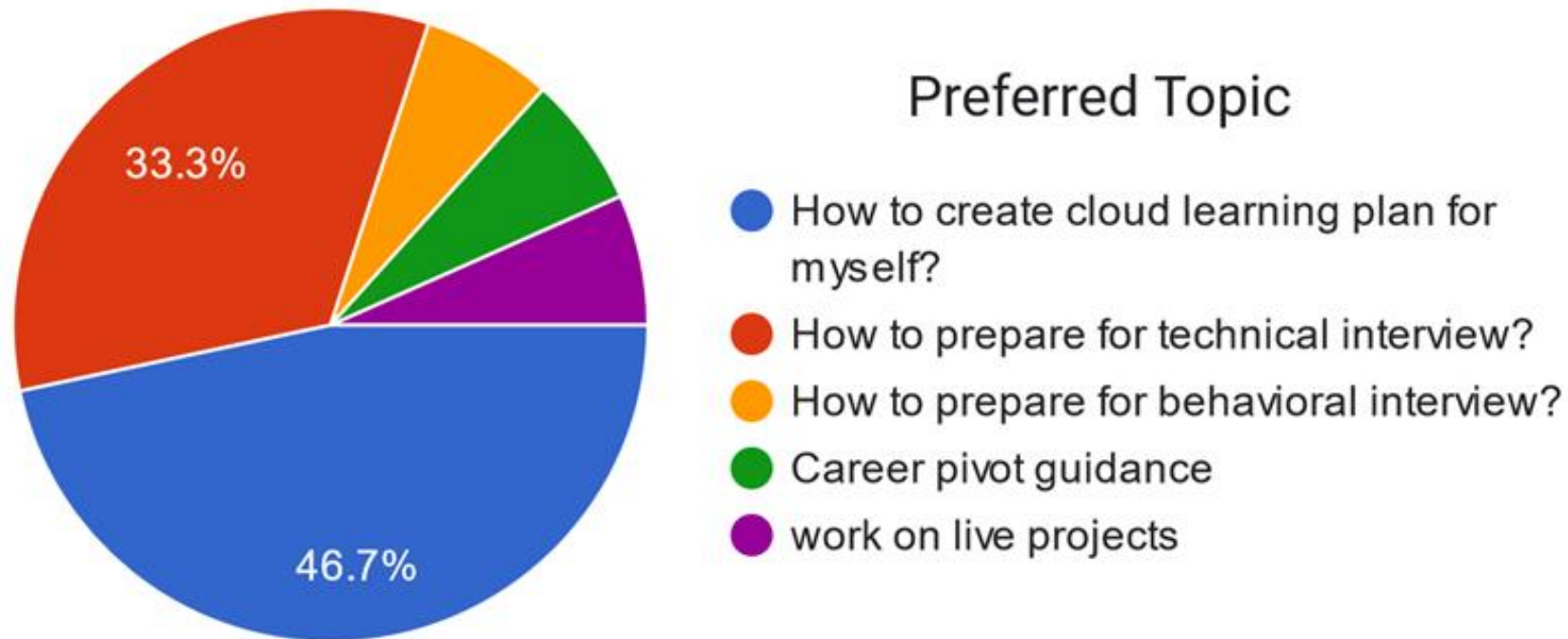
The Starter Kit equips you with tools and resources to transform and advance your career within 6 to 12 months.

- 6 months Whizlabs Access
- 6 months Pluralsight Access
- Monthly group mentoring session
- Other resources

<https://cloudcareerjourneys.com/>

## Tentative Agenda:

- How to get the maximum benefit from Starter-Kit? (15 mins)
- Main Topic - to be decided based on the responses (45 mins)
- Q&A - questions gathered via form and Live Q&A on career guidance (30 mins)



1<sup>st</sup> June



# New Training on Udemy - Free



Preview this course

## Data Analytics on AWS - Easy Explanation - Part 01

Learn about Data Analytics and AWS Service supporting it

**New** 0.0 ★★★★★ (0 ratings) 411 students 📺 1hr 28min of on-demand video

Created by [Ashish Prajapati](#)

🌐 English 🗣️ English [Auto]

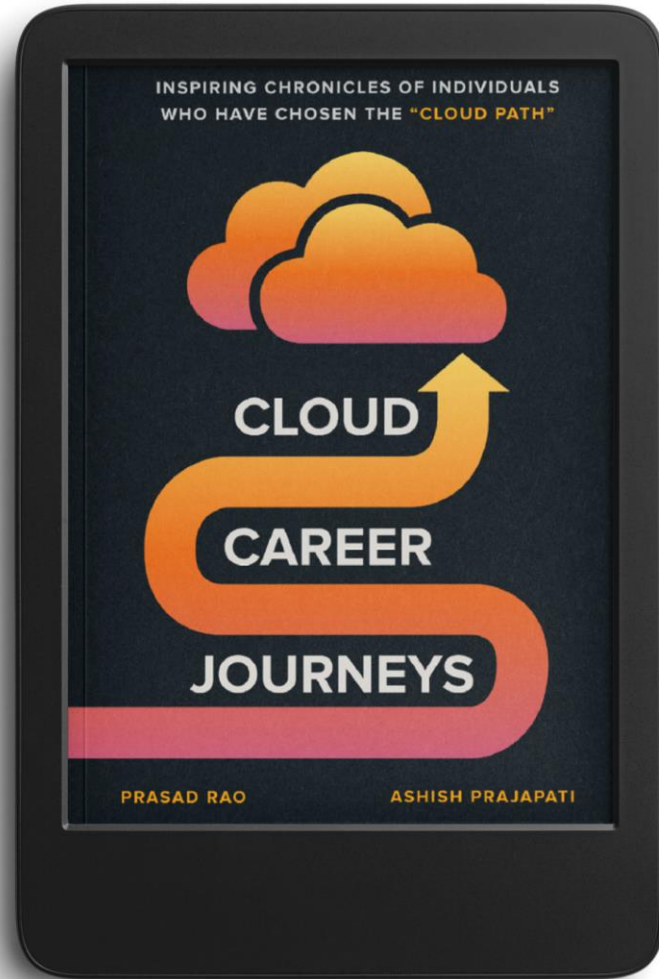
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# Giveaways



## Limited to first 50 buyers

- 50% discount on – Cloud Career Journeys – eBook
- 50% discount on – Cloud Career Journeys – Starter Kit
  - (QR Code displayed at the end of the session)



## Weekly Giveaways (Selection based on engagement)

- 1 x Cloud Career Journeys – eBook
- 10 x Whizlabs Sandbox Access for 3 months



## 12<sup>th</sup> Week Giveaways (Selection from regular participants)

- 10 x Whizlabs Premium Plus Subscription for 12 months

## Register Here

- <https://cloudcareerjourneys.gumroad.com/l/besagiveawayweek7>





## Week 06 Winners

|   |  |
|---|--|
| <b>Cloud Career Journey ebook</b>           | <ul style="list-style-type: none"><li>• Dinesh Ukate</li></ul>   |
| <b>Whizlabs 3 months AWS Sandbox Access</b> | <ul style="list-style-type: none"><li>• Andriy Chemyrtan</li><li>• Kumar Satyam</li><li>• Vandana Sharma</li><li>• Agnes Nduta</li><li>• DigiBodh</li><li>• Asna Khader</li><li>• Pd L</li><li>• Vinisha Mathur</li><li>• Aries Ash</li><li>• Ruth Cherogony</li></ul> |