

DAVE ON CYBER PRESENTS

Domain 1, Booklet 2

CISSP as an Art

The Yellow Forest

AND

AAA



created by Dave Krunal

Once upon a time, there was a
secret place - the yellow forest.



It has the most abundant life,
water, air and fruits.

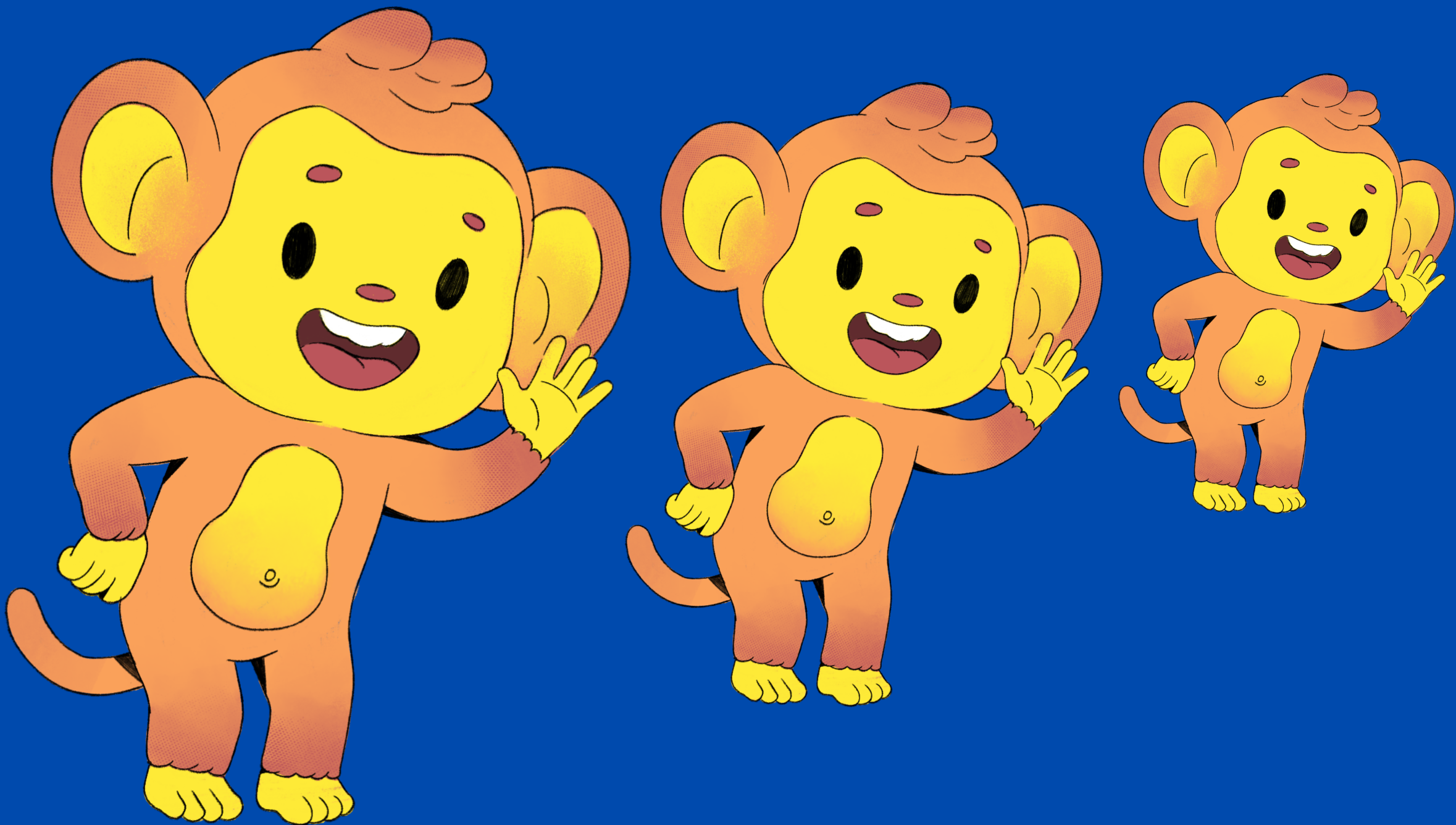
All the animals wanted to go there.



But no one can enter except...

MONKEYS

Because they were privileged ones.



AAA Service Concept

IDENTIFICATION +
AUTHENTICATION

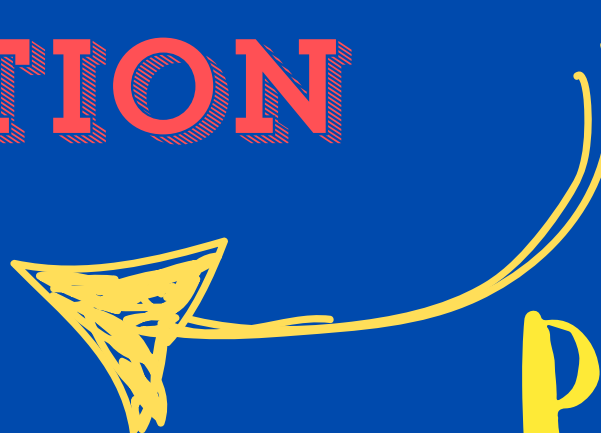
Being an animal identifies them from human.
However, identification is not enough. Being
authentic (Monkeys) assures that only
privileged ones can access the yellow forest
(secured area)



A user has to identify before the authentication.

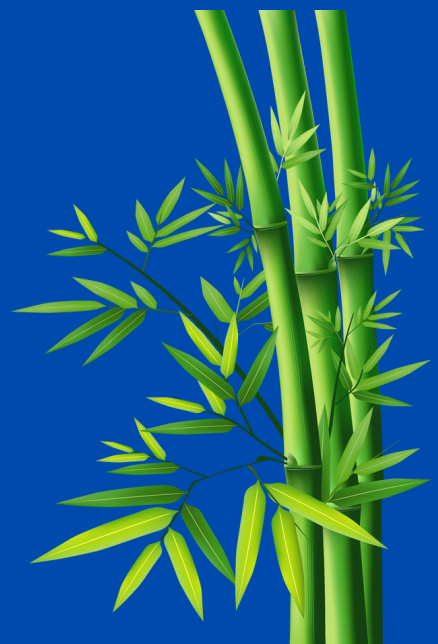
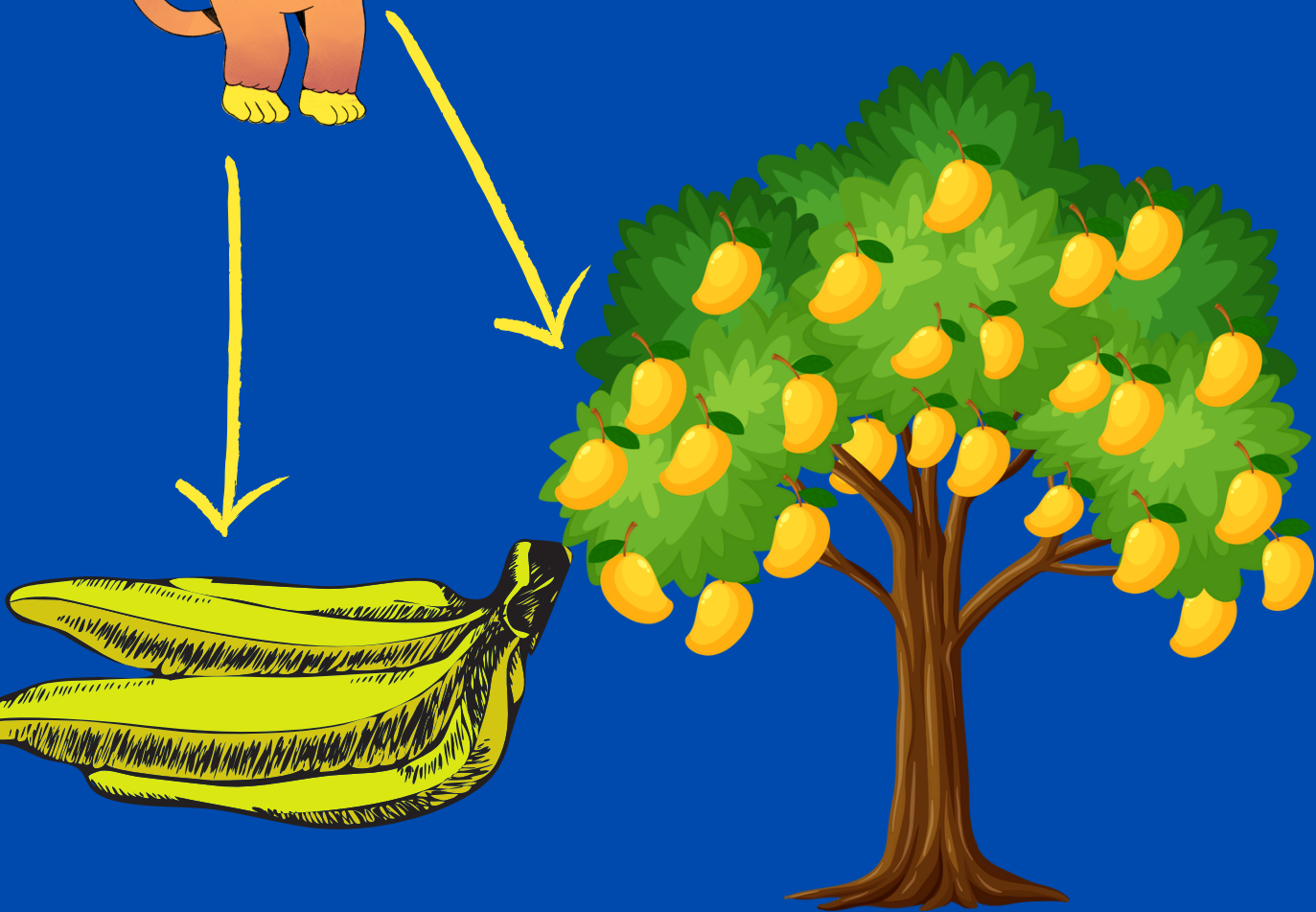
The *identification* uses specific user account.

IDENTIFICATION + AUTHENTICATION *one step process*



The *authentication* happens using user password. Sometimes, user gets additional challenge using *multi-factor authentication* such a one-time code from registered mobile.

There are different kinds of bananas
and trees in the yellow forest.
Monkeys can only eat yellow bananas
and climb on mango tree.



AUTHORISATION

Authentication allows only monkeys to enter in the yellow forest. Authorisation allows what monkey can and cannot do inside the yellow forest.



In the security world, once user is authenticated, it's important to define the permission on what user can access or not.

Authorisation is an **access control**.

Just because user is authenticated with right password, it doesn't mean they can access everything within the system.



Authorisation is defined using **Role Based Control Access (RBAC)** where each user is given only necessary permission based on their job role.

There is a big boss in the yellow
forest. His name is **HUGO!**



HUGO's job is to keep track of all the monkeys in the yellow forest.

How many monkeys enter to the yellow forest in a day?

How many yellow bananas they ate?

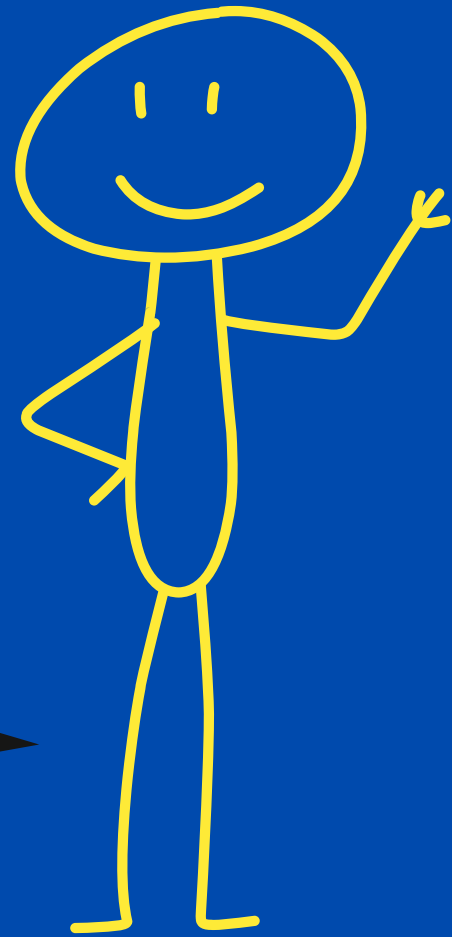
Did anyone tried to eat pink banana or climb on bamboo tree?

What time monkey were playing on mango tree?

AUDITING

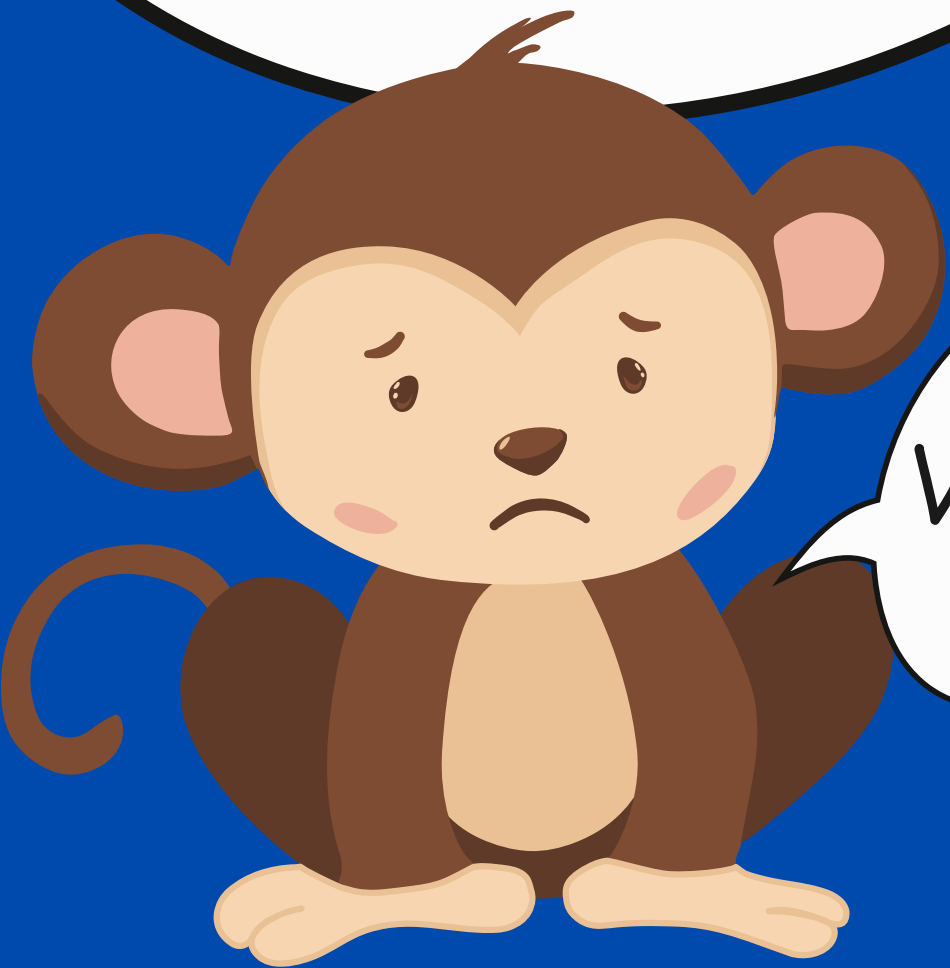
Auditing or monitoring is about logging all the activities and action within the system.

Am I the only one who find logs are boring?



"You can monitor without auditing but you cannot audit without some form of monitoring."

You are not allowed
to enter
the yellow forest
for next 10 days.



Why?

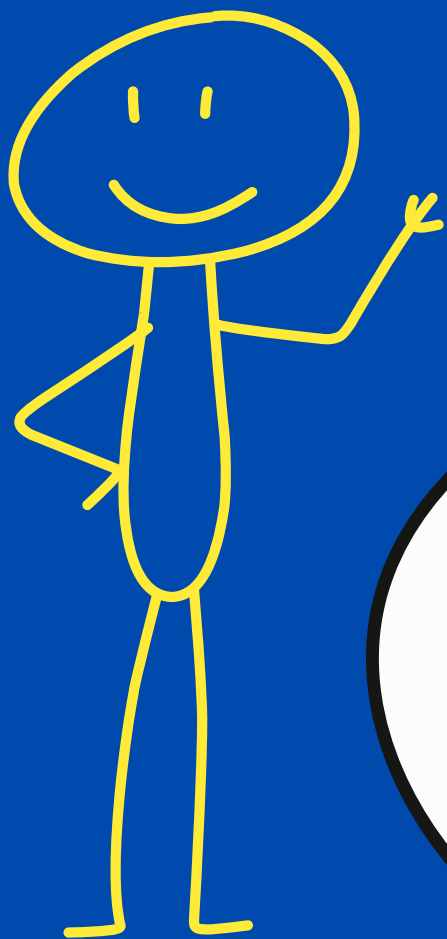
You ate 3 pink bananas.
And you climbed on
Bamboo tree.

ACCOUNTING

Accounting is about reviewing the log files to check for compliance and violations.

Accounting helps to enforce security policy.

You can make user **accountable** for their actions.



Blocked access?
It's your
KARMA

The AAA elements are not limited to system authentication. It's a core concept for securing any system.

IDENTIFICATION
AUTHENTICATION
AUTHORISATION
AUDITING
ACCOUNTING

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CISSP as an Art Series

created by Dave Krunal

I hope you enjoyed this
creative CISSP booklet.

I'd love to connect and hear
you feedback on my work.

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