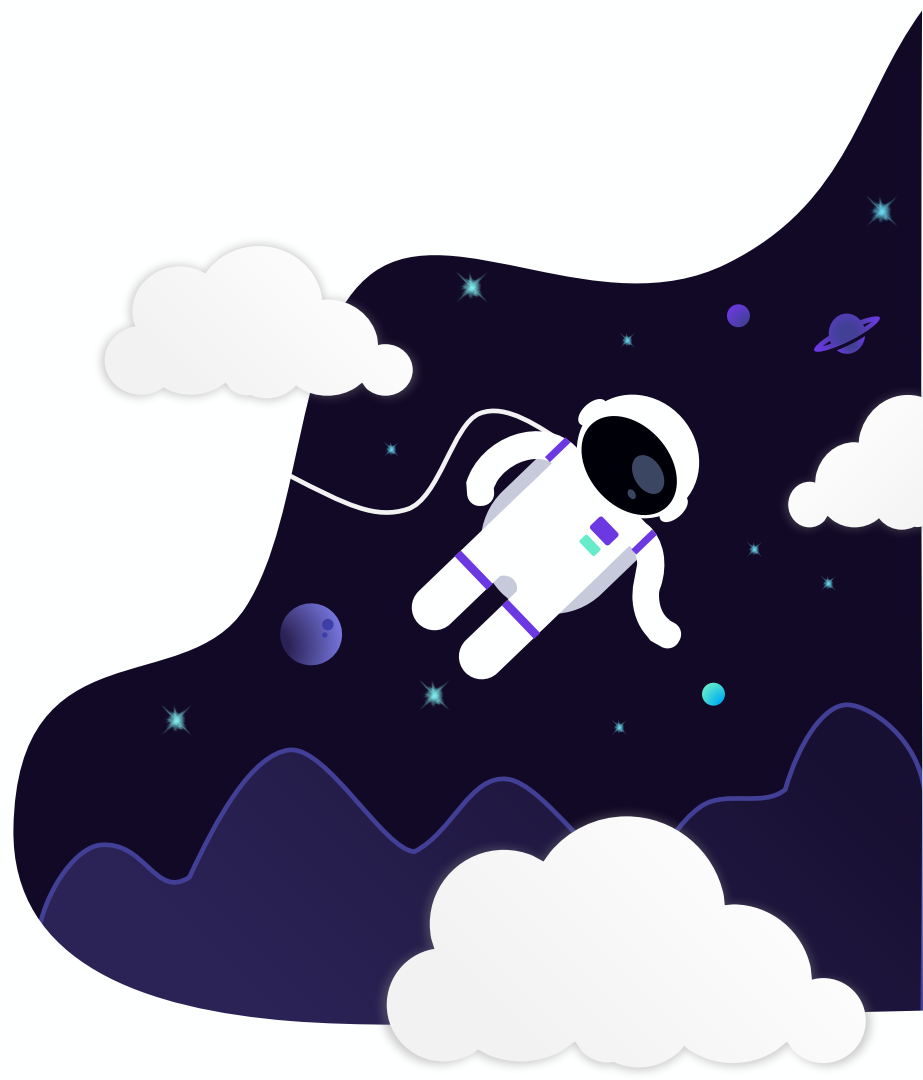


CYBER SECURITY FOR NEWBIE DEVELOPERS

Yes, it's you!



WHO AM I ?

It doesn't matter!
Let's cut to the chase!



CYBER SECURITY PILLARS

3 TO 5 CONCEPTS

Information security is a discipline that aims to protect data and systems from threats and risks.

The definition of the pillars of information security can vary depending on the source and the approach adopted, which explains the dynamics of describing 3, 4 or 5 pillars.

The background is a dark blue space theme. It features several bright, multi-pointed starburst effects in light blue and white. There are also smaller, solid-colored circles representing planets or moons in shades of blue and purple. The top and bottom edges of the slide are decorated with dark blue, wavy, mountain-like borders. The text is centered in a large, bold, white font.

**LET'S PLAY
A GUESSING
GAME ?**

!!1!!

@2@

#3#

\$4\$

%5%



It concerns the
protection of
information from
unauthorized
access.

CONFIDENTIALITY



!!1!!

It concerns the protection of information from unauthorized access.

@2@

It deals with ensuring that data has not been improperly altered during its life cycle.

#3#

\$4\$

%5%



INTEGRITY



!!1!!

It concerns the protection of information from unauthorized access.

@2@

It deals with ensuring that data has not been improperly altered during its life cycle.

#3#

It ensures that systems and data are always accessible when needed.

\$4\$

%5%



AVAILABILITY



!!1!!

It concerns the protection of information from unauthorized access.

@2@

It deals with ensuring that data has not been improperly altered during its life cycle.

#3#

It ensures that systems and data are always accessible when needed.

\$4\$

It involves ensuring that the origin of the information can be verified and that the information has not been falsified.

%5%



AUTHENTICITY



!!1!!

It concerns the protection of information from unauthorized access.

@2@

It deals with ensuring that data has not been improperly altered during its life cycle.

#3#

It ensures that systems and data are always accessible when needed.

\$4\$

It involves ensuring that the origin of the information can be verified and that the information has not been falsified.

%5%

It deals with the ability to prove that a person or system has carried out a specific action.



NON-REPUDIATION

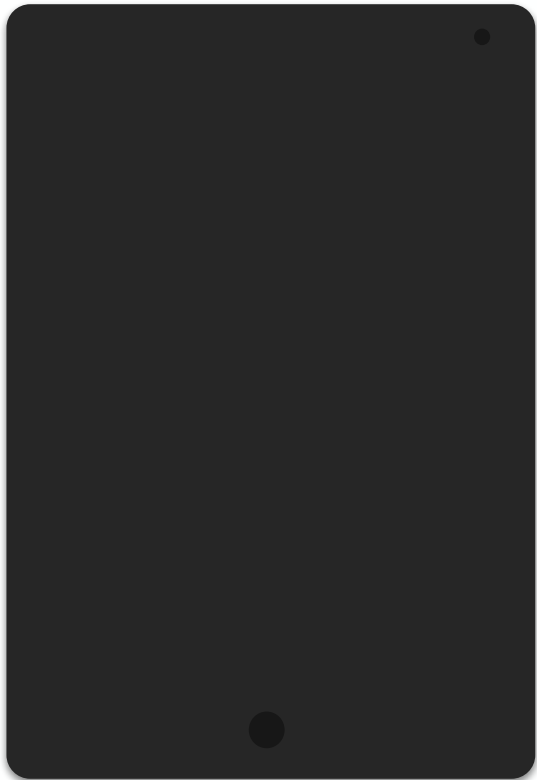


WHAT CAN I DO ABOUT IT ?

In order to implement
and ensure compliance with
the pillars discussed so far
it is necessary to adopt
certain actions and processes.

Let's see some examples! ->





DON'T REINVENT THE WHEEL

Prefer to use
validated tools that
are widely used by
your community.

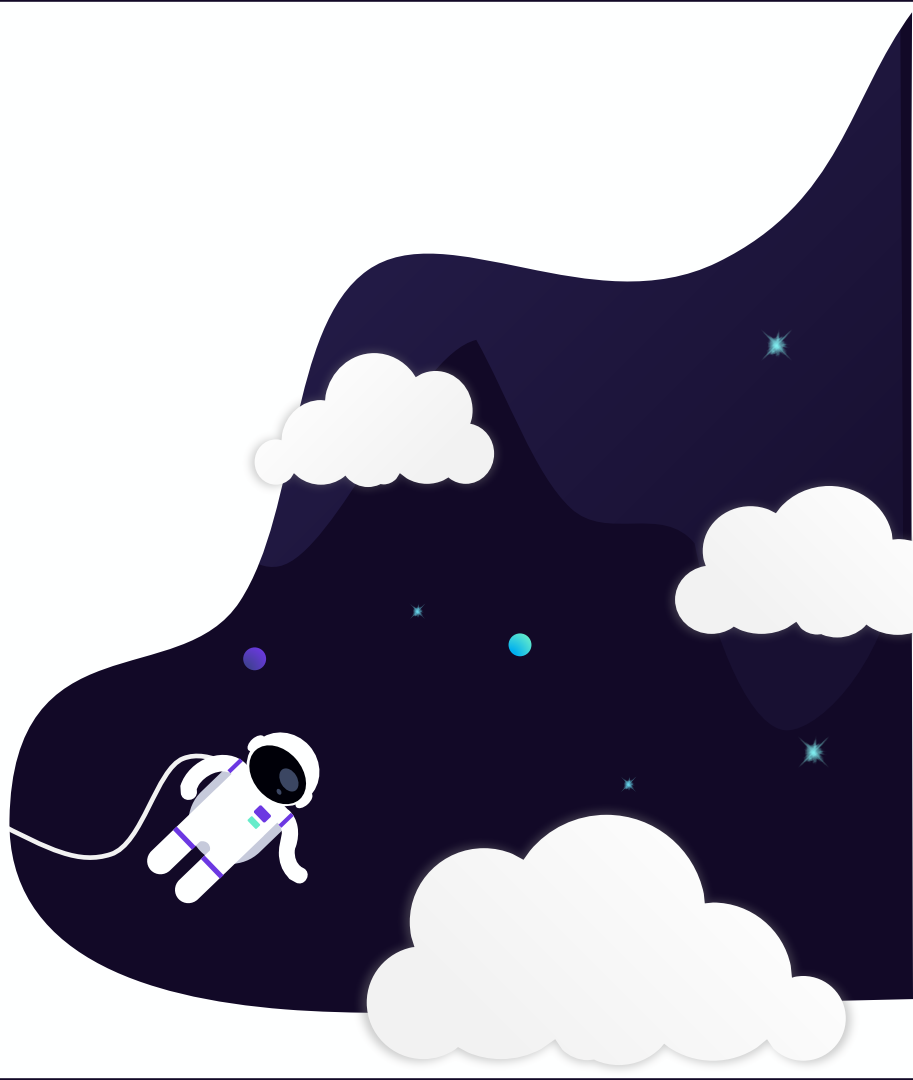
You're **NOT** building
a f*ck!ng
spaceship!

Don't risk making
mistakes by
implementing
common tasks!



LAYERED SECURITY

A single security mechanism will never be enough to protect your application from existing threats.

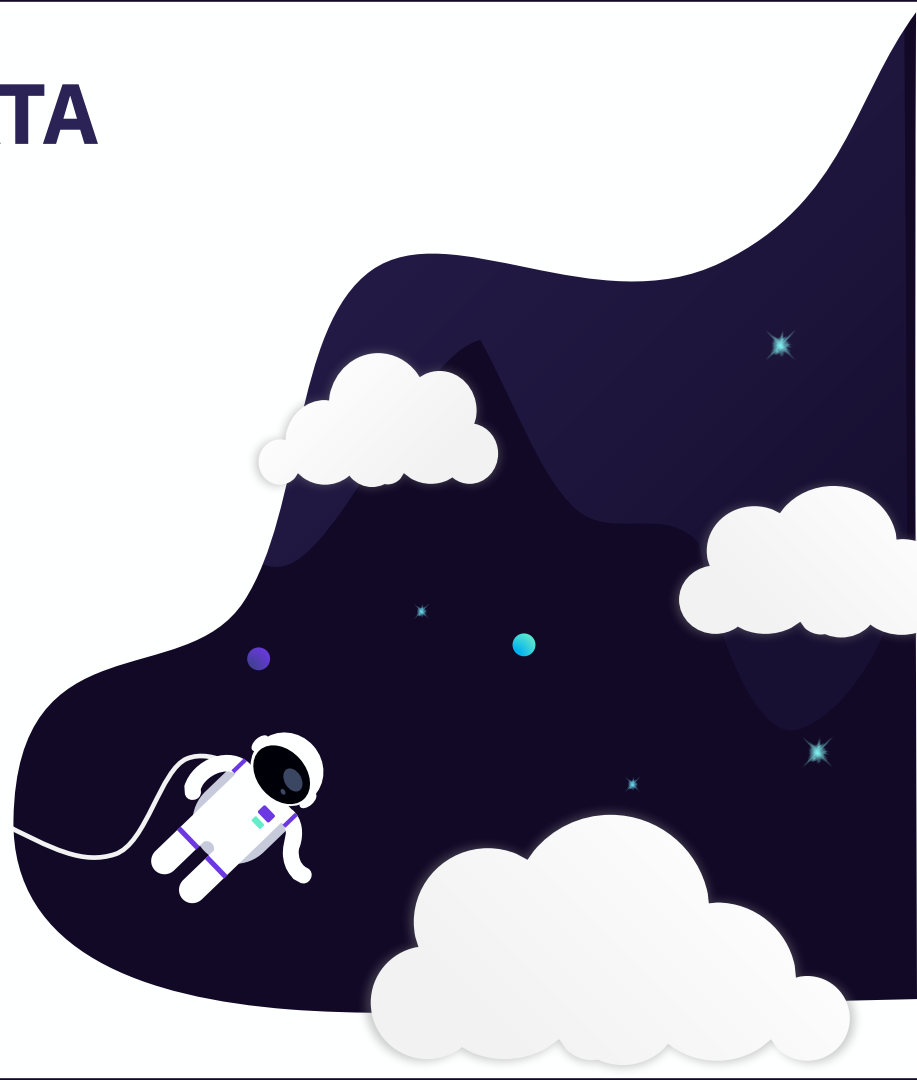


VALIDATING INPUT DATA

Validation: Check what you want!



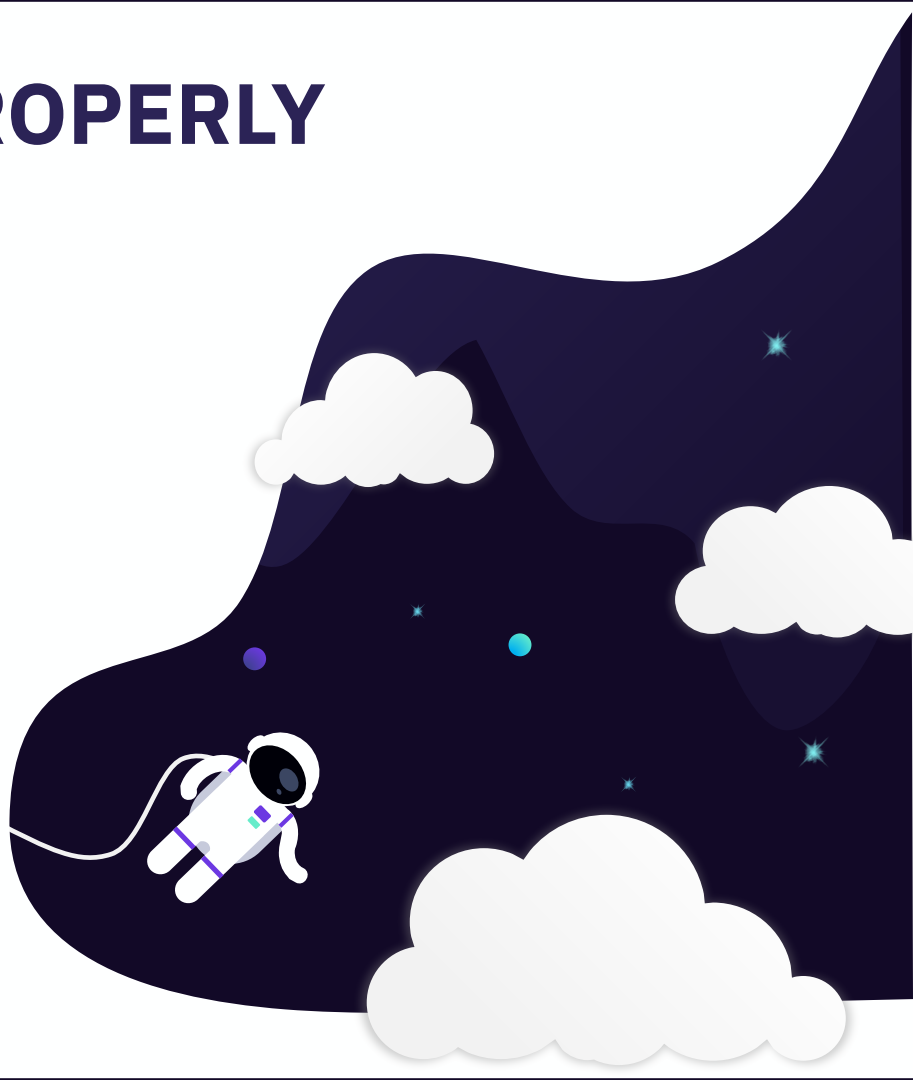
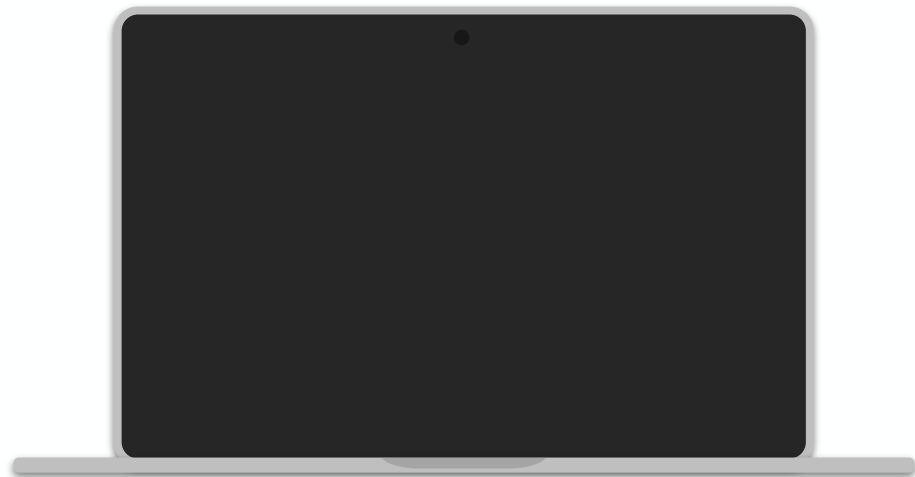
Sanitization: Remove what you do **NOT** want!

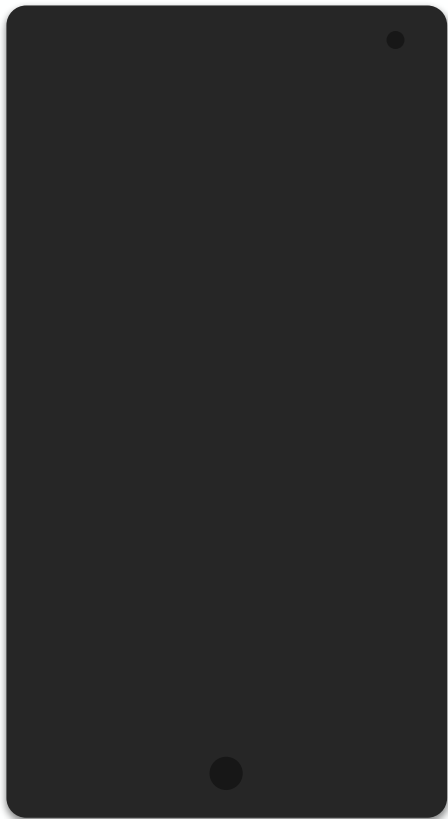


HANDLING ERRORS PROPERLY

You **shouldn't** expose sensitive data to common users!

Think about it!



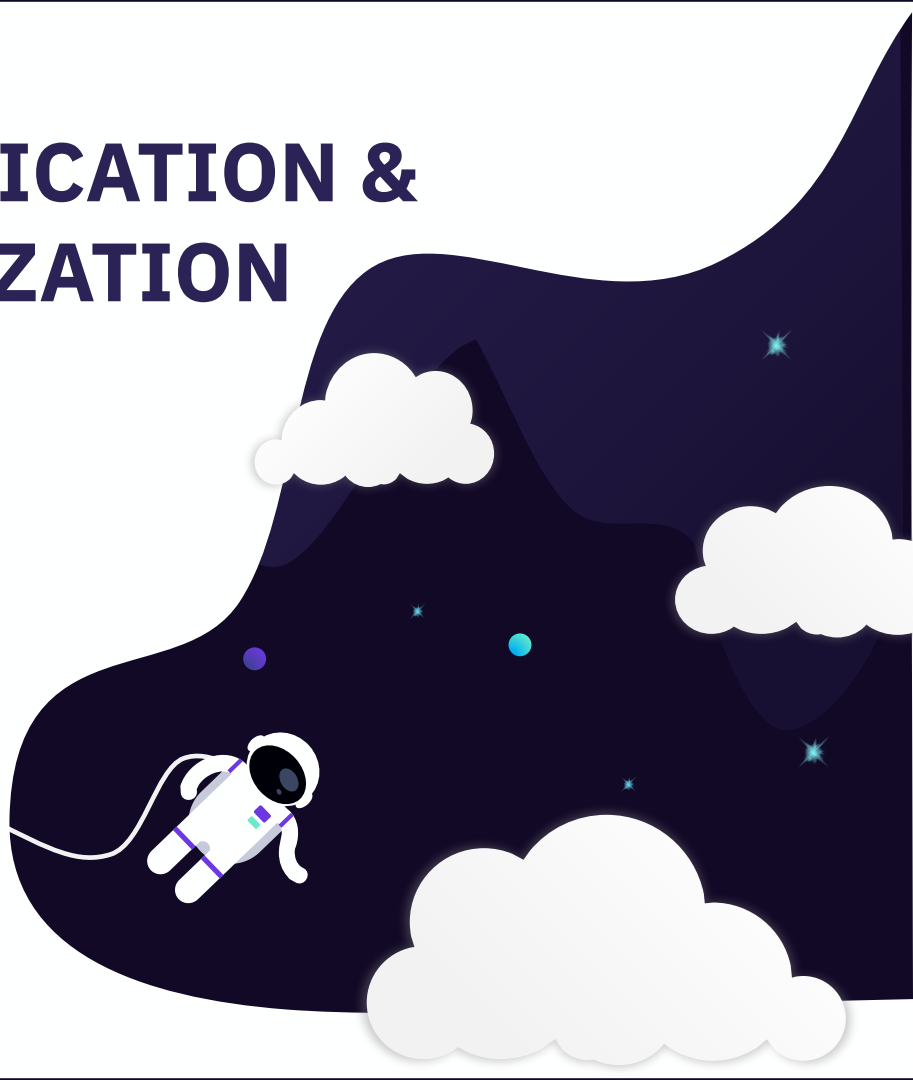


AUTHENTICATION & AUTHORIZATION

Verify the identity of your users.

Grant only the necessary permissions to users and their roles.

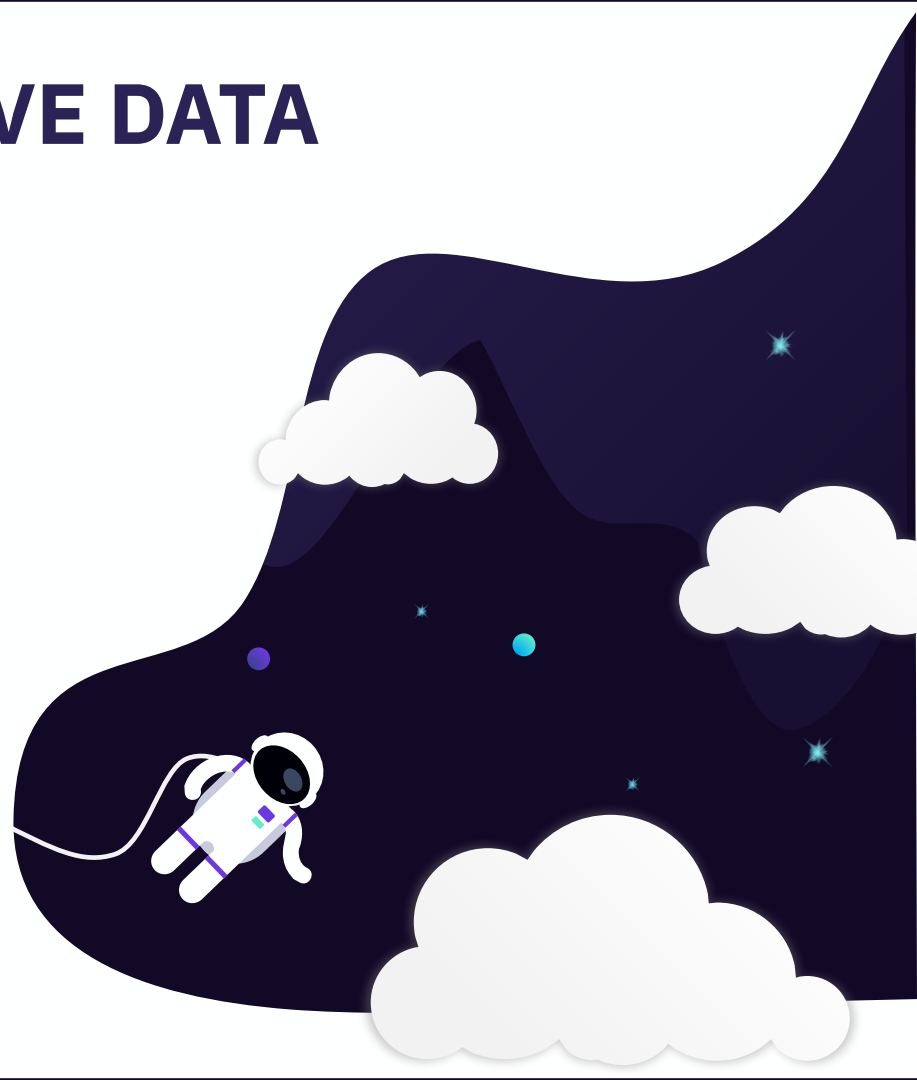
Avoid giving administrative privileges to ordinary users.



ENCRYPTING SENSITIVE DATA

Private data probably shouldn't be stored as plain text.

Implement password hashing and sensitive data protection using encryption techniques and strong keys.



**THINK OUT
OF THE BOX.**





DON'T BE NAIVE!

Threats aren't

THAT'S NOT GOOD ENOUGH

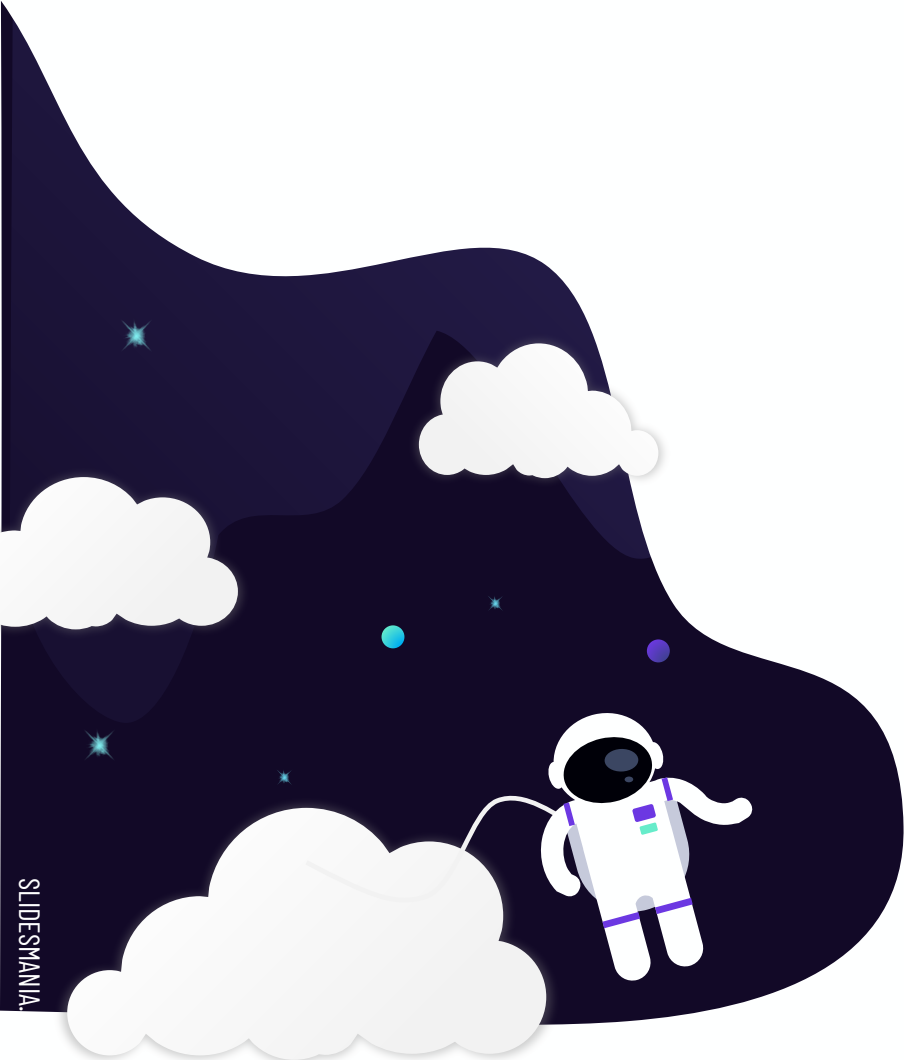
Unfortunately, no system is completely safe!
Yours won't be either!

Be prepared to react to emergencies and
incidents!

This is just as important as protecting yourself
against the threats that will inevitably come!

Have an incident response plan in place.

Don't ignore the importance of backups,
rollback mechanisms and common security
actions!



Do you have any questions?

Thank you!