What's Wrong with your Password?

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Tech Trailblazer: Dynamic Expert in Security Solutions. Passionate about Unraveling the Why and How.



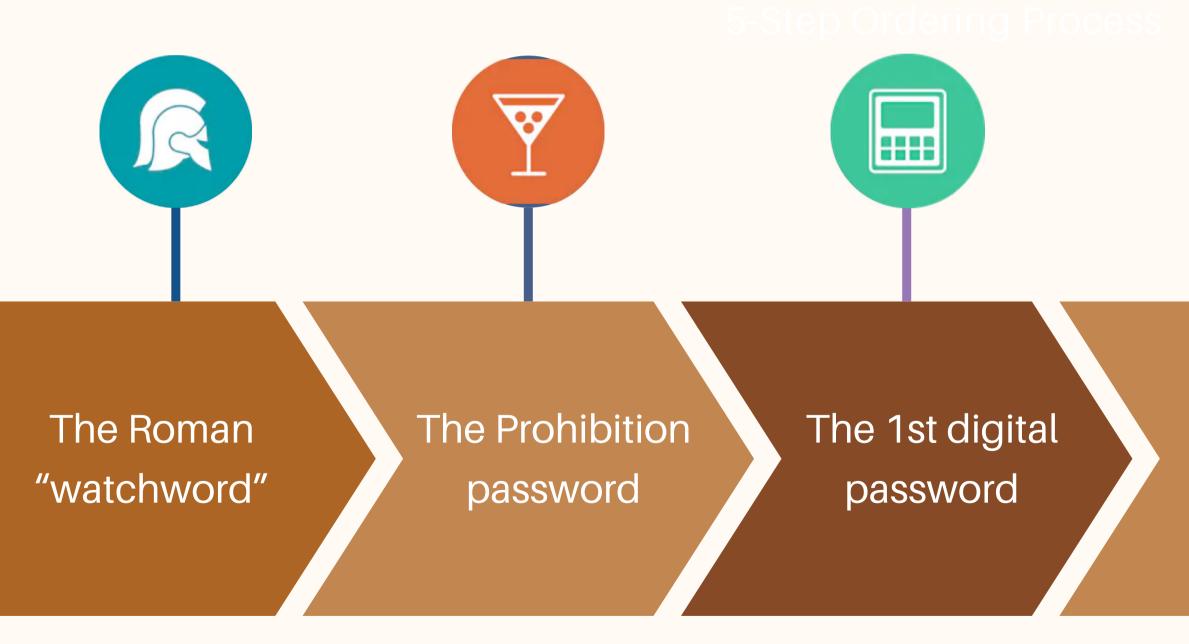




Password and its Evolution

mini@range

A password is a string of characters used to verify the identity of a user during the authentication process.

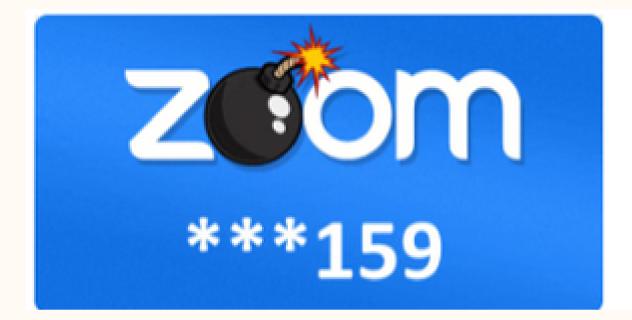






Web 2.0 password overload

The future of passwords is now



Passwords in Minutes

🛗 Jul 30, 2020

Popular video conferencing app Zoom recently fixed a new security flaw that could have allowed potential attackers to crack the numeric passcode used t...

- Zoom-bombing attacks refer to the act of disrupting and hijacking Zoom meetings uninvited to share obscene and racist content.
- Zoom began requiring a passcode for all meetings back in April as a preventive measure to combat this.
- An attacker to attempt all 1 million passwords in a matter of minutes and gain access to other people's private (password-protected) Zoom meetings.

Zoom Bug Allowed Snoopers Crack Private Meeting



Microsoft says it was hacked by Russian statesponsored group

A Russian hacking group known in the cybersecurity industry as Nobelium, or Midnight Blizzard, used a "password spray attack" starting in Nov. 2023 to breach a Microsoft platform, the company said in a blog. Hackers use this technique to infiltrate a...

20 Jan, 2024, 07:33 AM IST

- A Russian hacking group known in the cybersecurity industry as Nobelium, or Midnight Blizzard, used a "password spray attack" starting in Nov. 2023 to breach a Microsoft platform
- Hackers use this technique to infiltrate a company's systems by using the same password across multiple accounts.



Temporary one-time password not enough, says Zerodha's Nithin Kamath on demat hacking Zerodha will soon launch a feature that will not allow orders for options to be placed at abnormal prices, Nithin Kamath, founder and chief executive at the brokerage house

wrote in a LinkedIn post.

23 Jul, 2022, 06:58 AM IST



to reset password

Nansen said it managed to stop the unauthorised access shortly after learning about it and launched an immediate investigation. 25 Sep, 2023, 12:39 PM IST

IOTW: Hacker allegedly hits both Uber and Rockstar

A hacker has claimed they are responsible for hacking into both companies' servers

Crypto firm Nansen issues data breach alert, asks users

Rank	Password	Number of times used	Time Taken to crack
]	123456	4524867	
2	admin	4008850	
3	12345678	1371152	
4	1234	969811	
5	password	710321	
6	123	528086	
7	Aa123456	319725	
8	1234567890	302709	



Username : admin Password : admin

admin:password





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Challenges with Web 2.0 Passwords

Reuse Passwords

A user has account across 100 different application and it is difficult for them to create 100 unique, difficult to guess passwords



Use of common passwords

Most users tend to utilize commonly used passwords including their personal information.

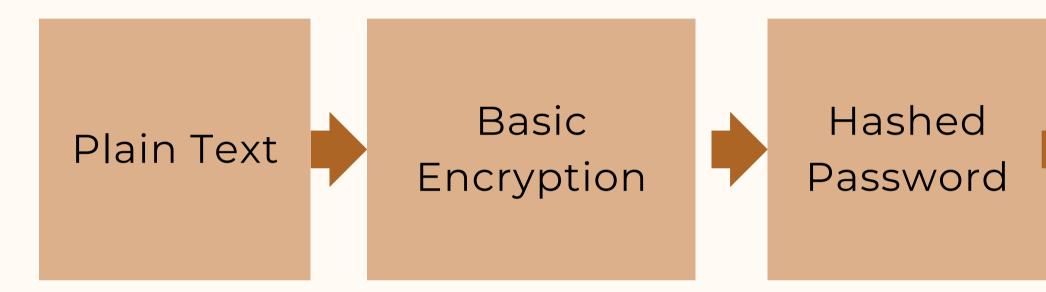




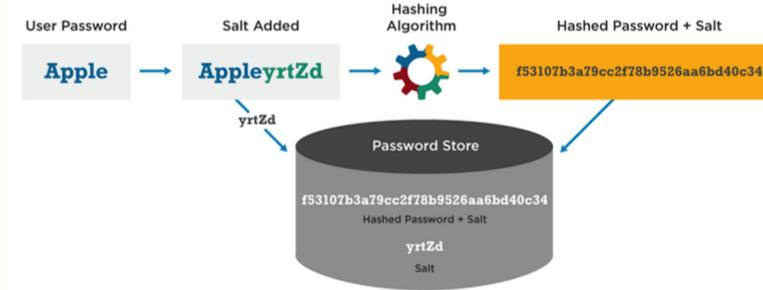
Frustrating password policies

It is sometimes frustrating to meet the requirements of complex password olicies

How Passwords are Stored?



Password Hash Salting





Hashed Password with a Dash Of Salt



Password Hashing Algorithms!

MD5	SHA1	SHA25
Weakest		
	Weak	
		Strong





RAINBOW TABLES BRUTE FORCE ATTACK DICTIONARY ATTACK

Common Password Cracking Techniques

HYBRID ATTACK

CREDENTIAL STUFFING ATTACK



Open Source Password Cracker Tools

- John the Ripper
- Statsprocessor
- Hashcat
- THC-Hydra
- CeWL





What's wrong with your password



Using the same password everywhere



Sharing passwords too freely



Using Personal Information







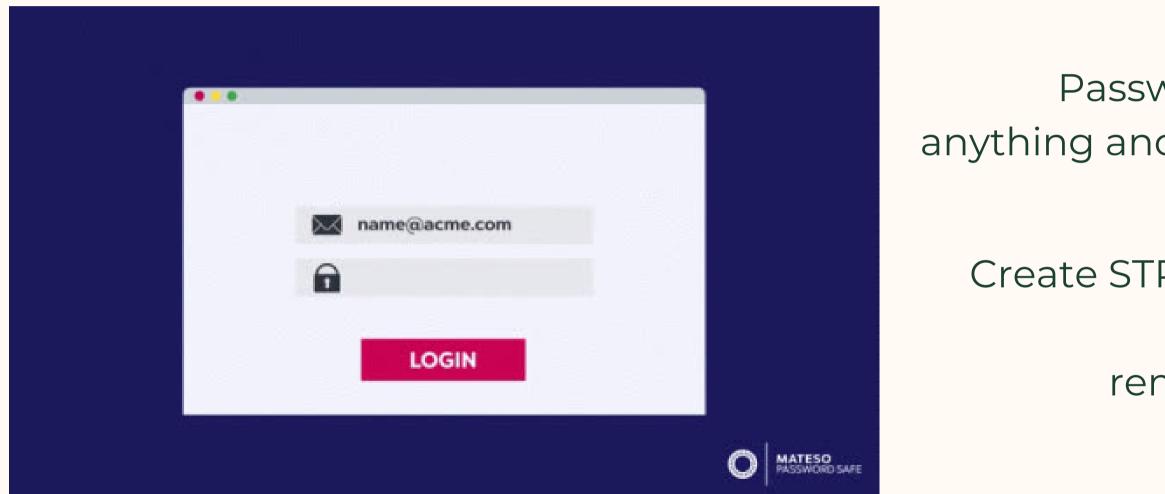


Having too short passwords

Never updating passwords

Lack of AWARENESS

Password Managers





Password Managers will do anything and everything for your security

Create STRONG, UNIQUE passwords for 100 sites and remember all of them.

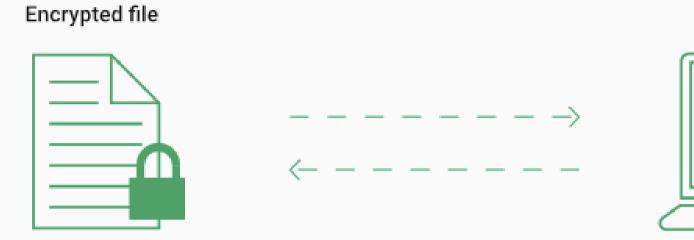


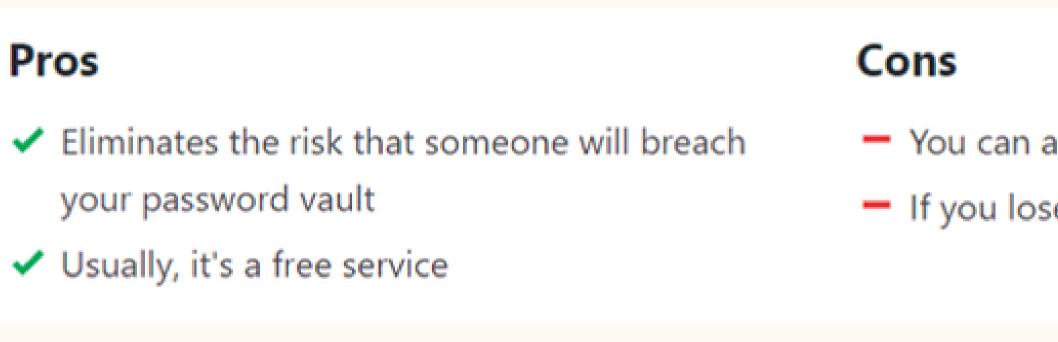
Types of Password Managers - Pros and Cons

- Locally installed or offline password managers
- Web-based or online password managers



OFFLINE PASSWORD MANAGER





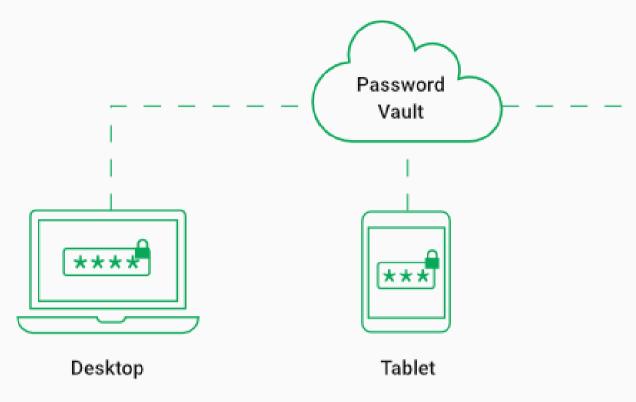


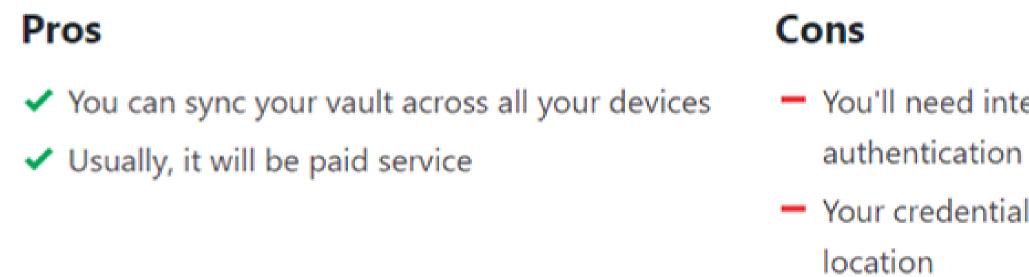
Your device



You can access your vault on only one device If you lose your device, you lose your vault

ONLINE PASSWORD MANAGER







Mobile

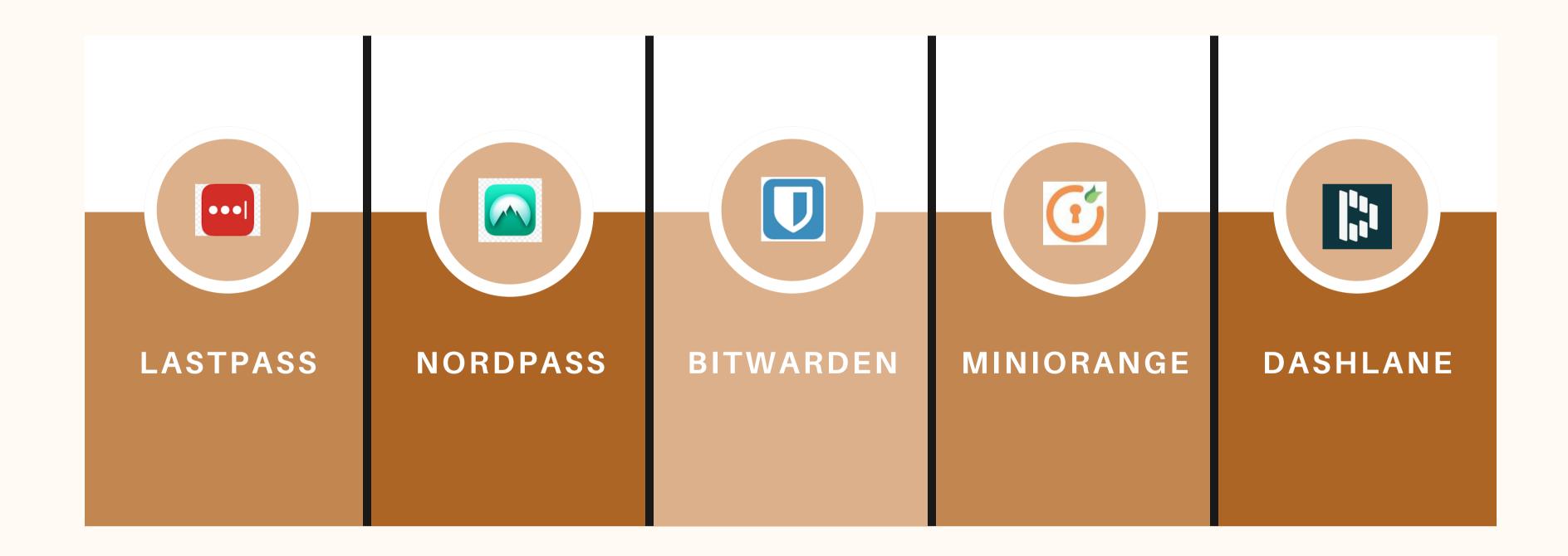
You'll need internet connectivity for

- Your credentials are stored in an unknown



Popular Password Managers

5-Step Ordering Process





Not Using Password Managers yet?

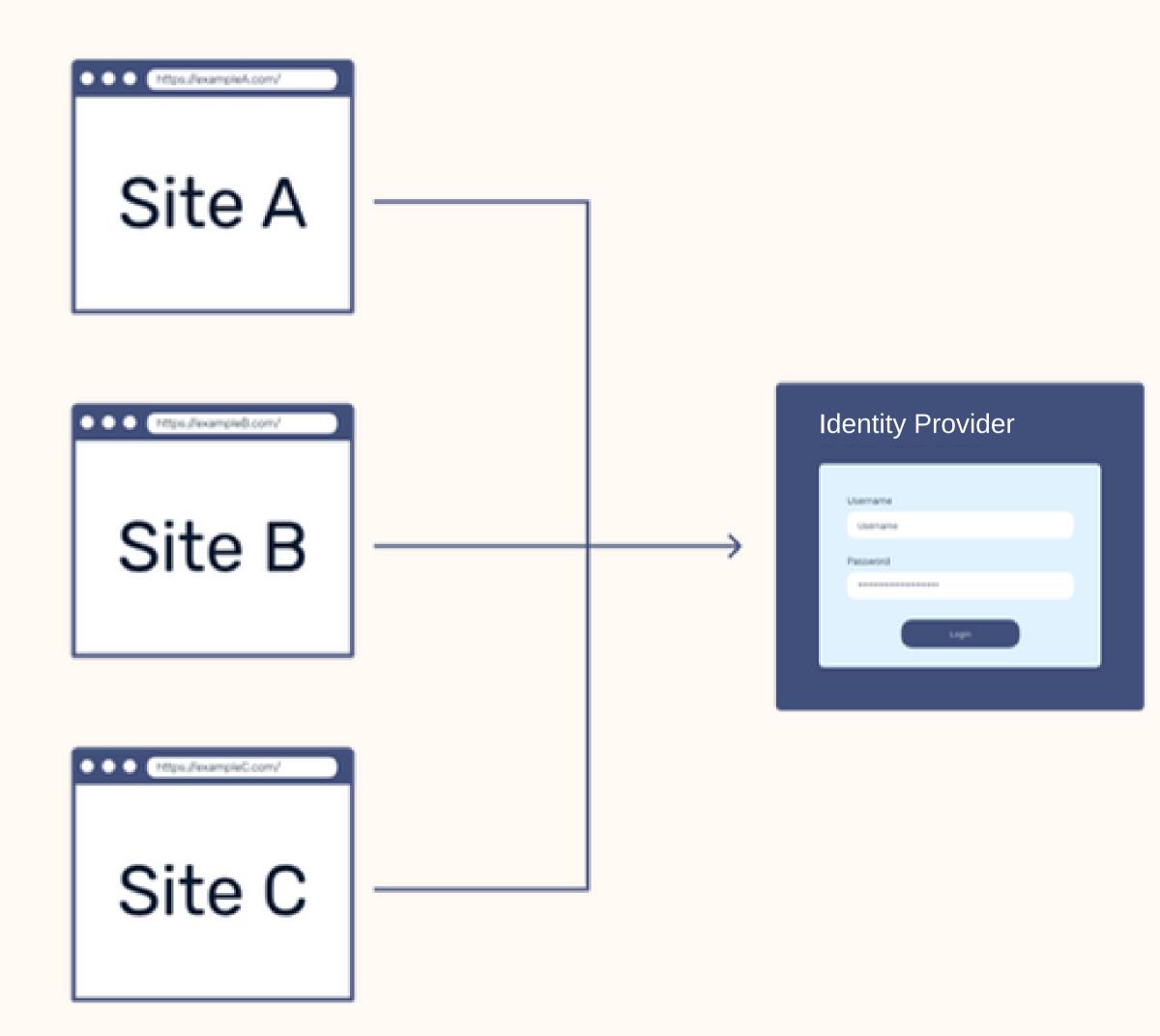
You can start by checking the strength of your passwords.

You made it to the last session!

MAN







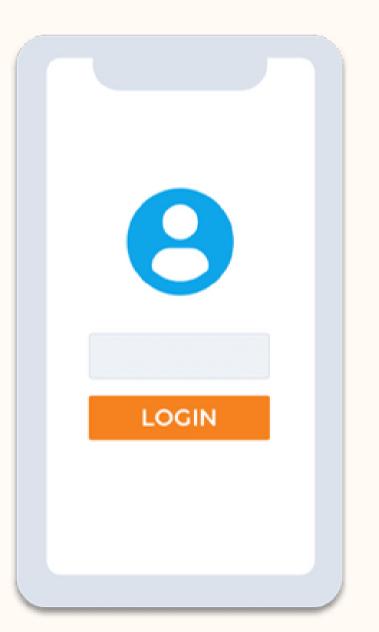




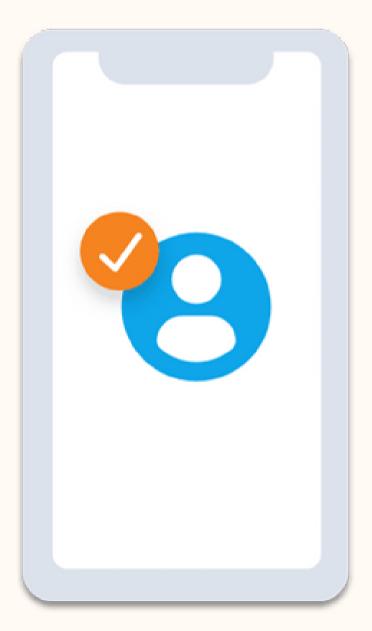


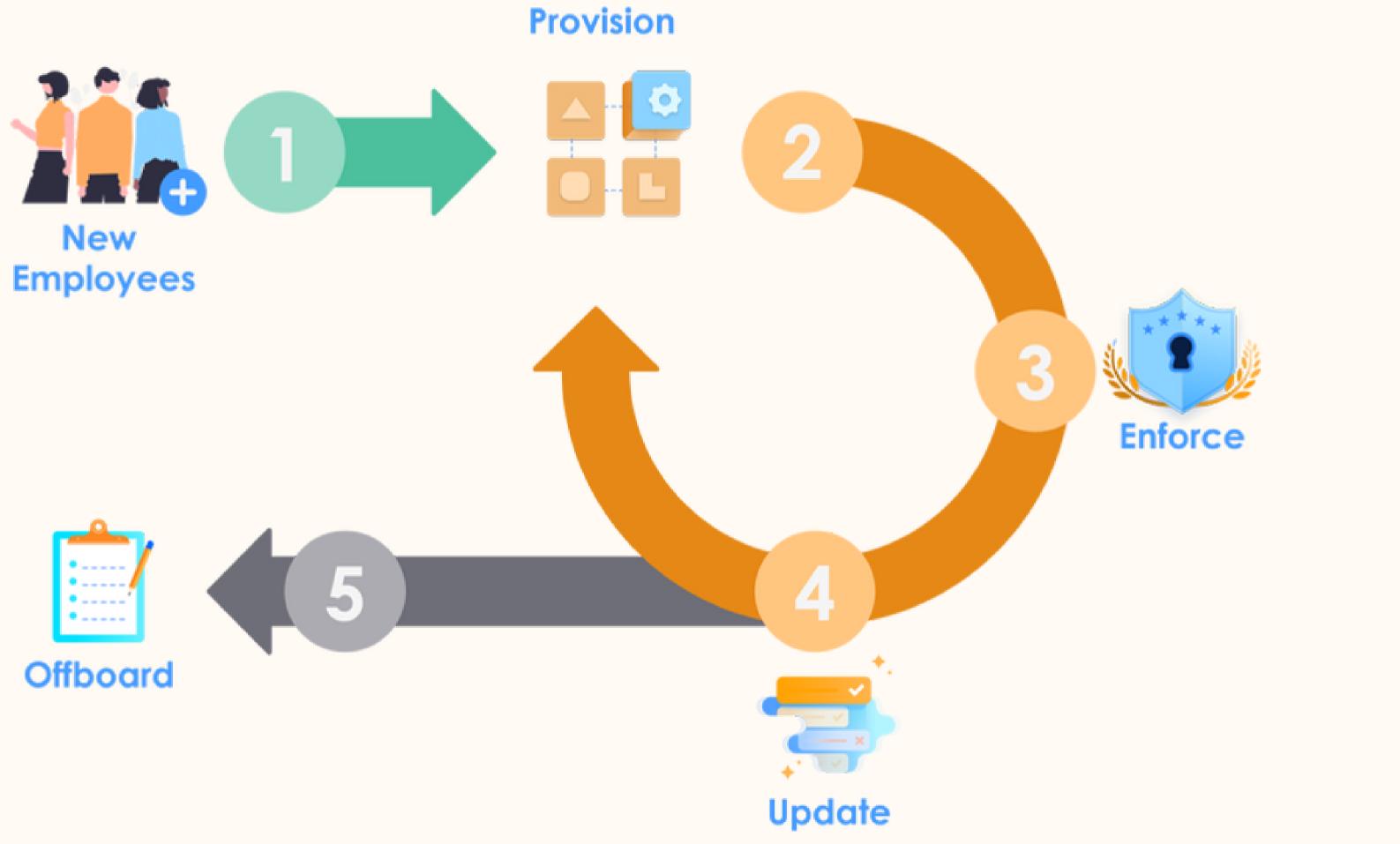














Feedback!



