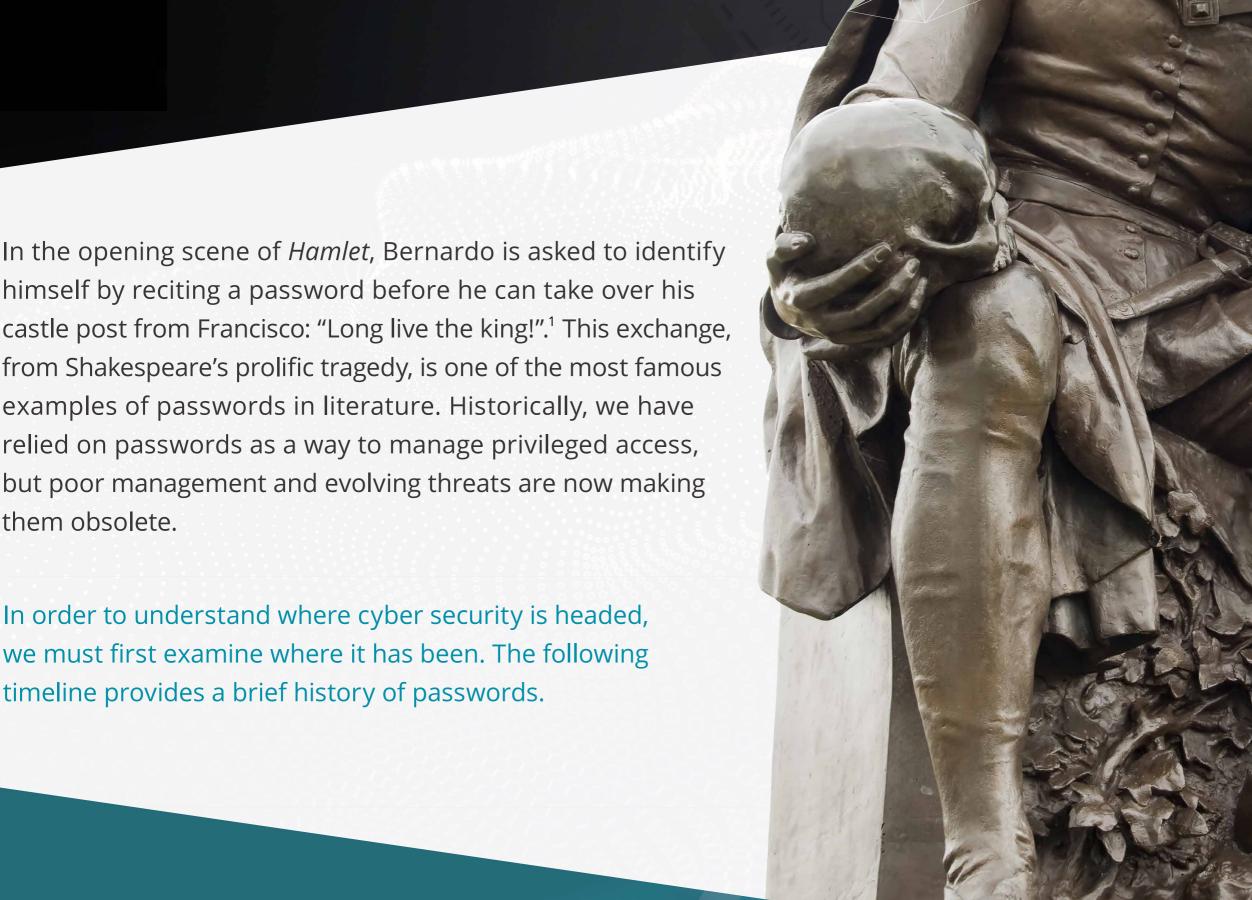


A CYBER SECURITY CHRONICLE

himself by reciting a password before he can take over his castle post from Francisco: "Long live the king!". This exchange, from Shakespeare's prolific tragedy, is one of the most famous examples of passwords in literature. Historically, we have relied on passwords as a way to manage privileged access, but poor management and evolving threats are now making them obsolete.

In order to understand where cyber security is headed, we must first examine where it has been. The following

timeline provides a brief history of passwords.

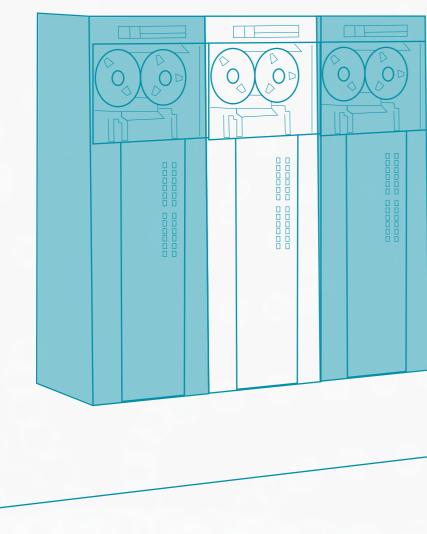


AN UNAUTHORIZED HISTORY OF PASSWORDS

1706 **ARABIAN NIGHTS**

This ancient collection of Arabic stories was officially published in English in 1706. In one of the most famous stories, a woodcutter named Ali Baba overhears a secret phrase used by a group of thieves to protect their treasure. While the thieves aren't watching, Ali Baba utters the phrase "Open sesame" and takes the treasure.2





FIRST COMPUTER PASSWORD FAILS

MIT researchers prints out all of the passwords stored

In order to increase his CTSS access time, one of the

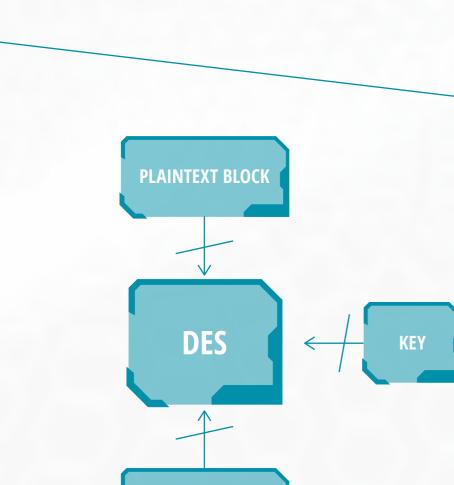
1961 FIRST COMPUTER PASSWORD Researchers at MIT build a large time-sharing

computer (CTSS) and control access to personal files and usage time with a password.3

3468***

5223*

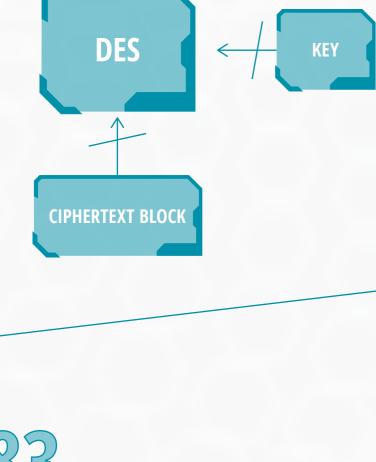
12**



DATA ENCRYPTION STANDARD

The National Institute of Standards and Technology (NIST) creates an algorithm that sets a new standard for password security.5

JOSHUA



WARGAMES David Lightman (played by a young Matthew

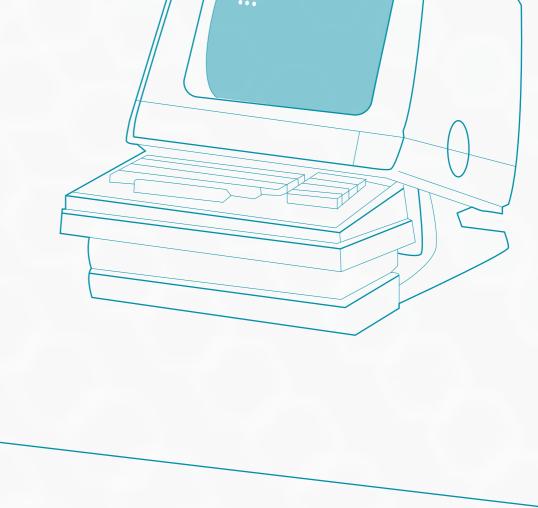
1962

on the computer.4

and learning that he had a son named Joshua who died tragically. Predictably, the password is "Joshua." 6

Broderick) accidentally hacks into a military computer

after conducting research on the original programmer





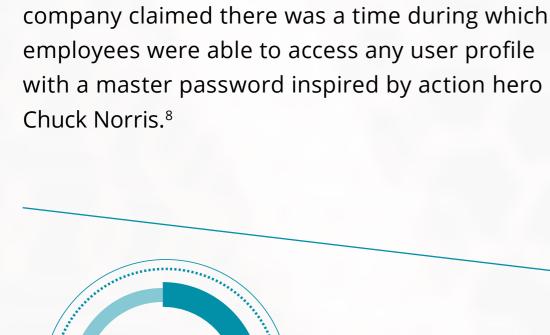
An anonymous engineer at a major social networking

Standard (DES) code in a mere 56 hours.7

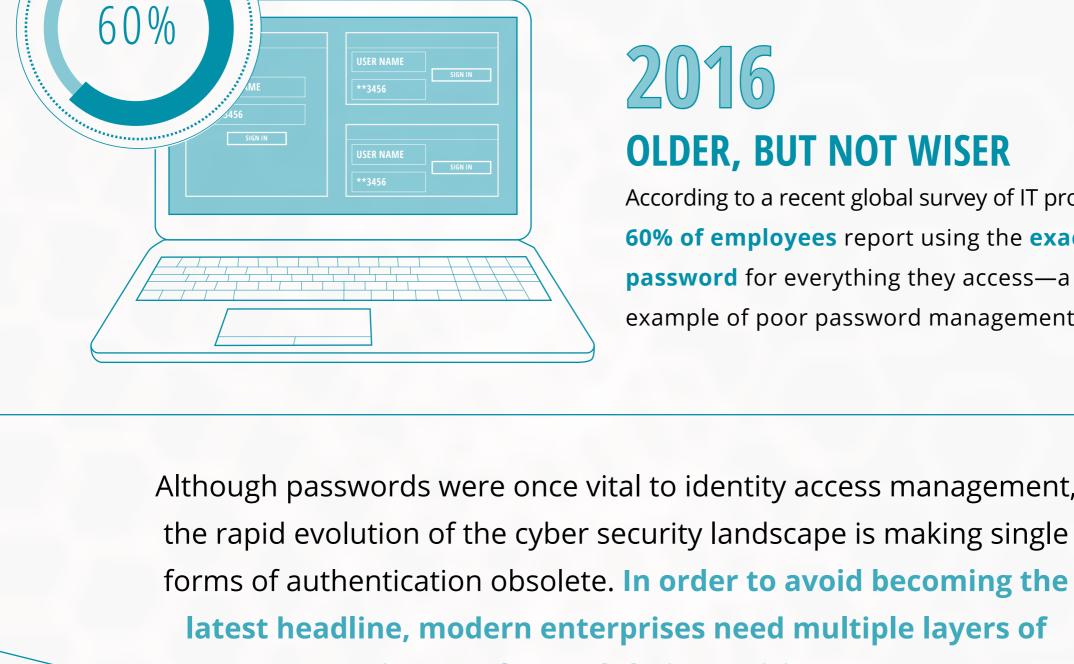
After two decades of being the security standard,

a digital rights group cracks the Data Encryption

ELECTRONIC FREEDOM FOUNDATION



WALKER, TEXAS DANGER



According to a recent global survey of IT professionals 60% of employees report using the exact same password for everything they access—a prime example of poor password management.9

OLDER, BUT NOT WISER

2016

Although passwords were once vital to identity access management,

security to safeguard their sensitive assets. Brought to you by:

