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Hackers are targeting machine identities to steal passwords, user info

NEW DELHI

erating adoption Internet of Things # ith companies acceland cloud apps, to accommo- tember 2021, respectively. date remote work during the pandemic, machine

identities emerged as the weak link, with increasing instances of cyberattacks leveraging the digital certificates.

For instance, in February, Lapsus launched a cyberattack intochipmaker Nvidia's internal systems and leaked its codesigning certificate online. which was then used by other

tion protocols used by Windows Defender, a security tool built into all versions of the Windows operating system. Gaming major Epic Games and certificate authority Let's Encrypt also suffered similar attacks in April 2022 and Sep-

Just as human TECHCIRCLE identities are protected with usernames and pass-

words to authenticate access, machine identities are protected by certificates. With increasing covid-led dependence on communication over connected devices, the number of machine identities have also surpassed human identities. Às a result, hackers are tar-

steal passwords and user information by breaching a company's internal systems. In fact, security firm CyberArk said in a recent report that machine identities now outweigh human identities by a factor of 45 times. If these digital identities go unmanaged and are not secure, it could lead to the creation of many separate identities that are incompatible with each other, and can create "significant" cybersecurity risk, said Prateek Bhajanka, cybersecurity expert and vice president, products, of American security testing firm Breachlock. "Identities from any machine can be

promised. Say, in the case of

IoT devices, when compro-



With digital transformation initiatives like cloud migration, the need for machine identities has grown exponentially. ISTOCK

Baiai Allianz General Insurance

expressed similar views, "With

mised.its identity can be stolen and when the access rights to the database is abused, it can

digital transformation initiatives like cloud migration and K.V. Dipu, head of operaexpanding DevOps processes, the need for machine identities tions and customer service at

Enterprises that fail to keep up with the volume and variety of

quences like data breaches, outages, and much more,' he said.

"To avoid a hack, we ensure access permissions are given on a need-toknow basis with permission only to authorized users." Dipu said permissions are granted

by disallowing all communica-

A recent report by machine identity management firm

of 2021, up by 42%

"The unfortu-

nate reality is that

most organizations

are not prepared to

manage all the machine identities

they need," said Kavin Bocek, vice

from 2020.

machine identities may end up | Venafi said the average number of machine identiwith serious conse ties per organization reached nearly 250,000 at the end

MACHINE identities now outweigh human identities by a factor

IF digital identities go unmanaged and are not secure, it can create significant cybersecurity risk

president, security successfulauthenticationcon- strategy and threat intellitrols. "We also control breach | gence, Venafi. "This rapidly growing gap has opened a new tion channels that are not attack surface-from software

clusters-and that is very

Bocek said while an average organization will have more than 500,000 machines by 2024, the problem is IT teams use "multiple disconnected and manual tools" to track digital certificates.

"There are a number of ways to secure machine identities, said Mary Ruddy, vice presi dent analyst at research firm Gartner. She said enterprises must offer adequate guidance to developers, security and DevOpsteams by defining how the various tools in their technology stacks should or should not be used, and under what circumstances new tools or instances can be deployed.