

# Ethical Hacking: Introducing Ethical Hacking

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Classifying Information Security

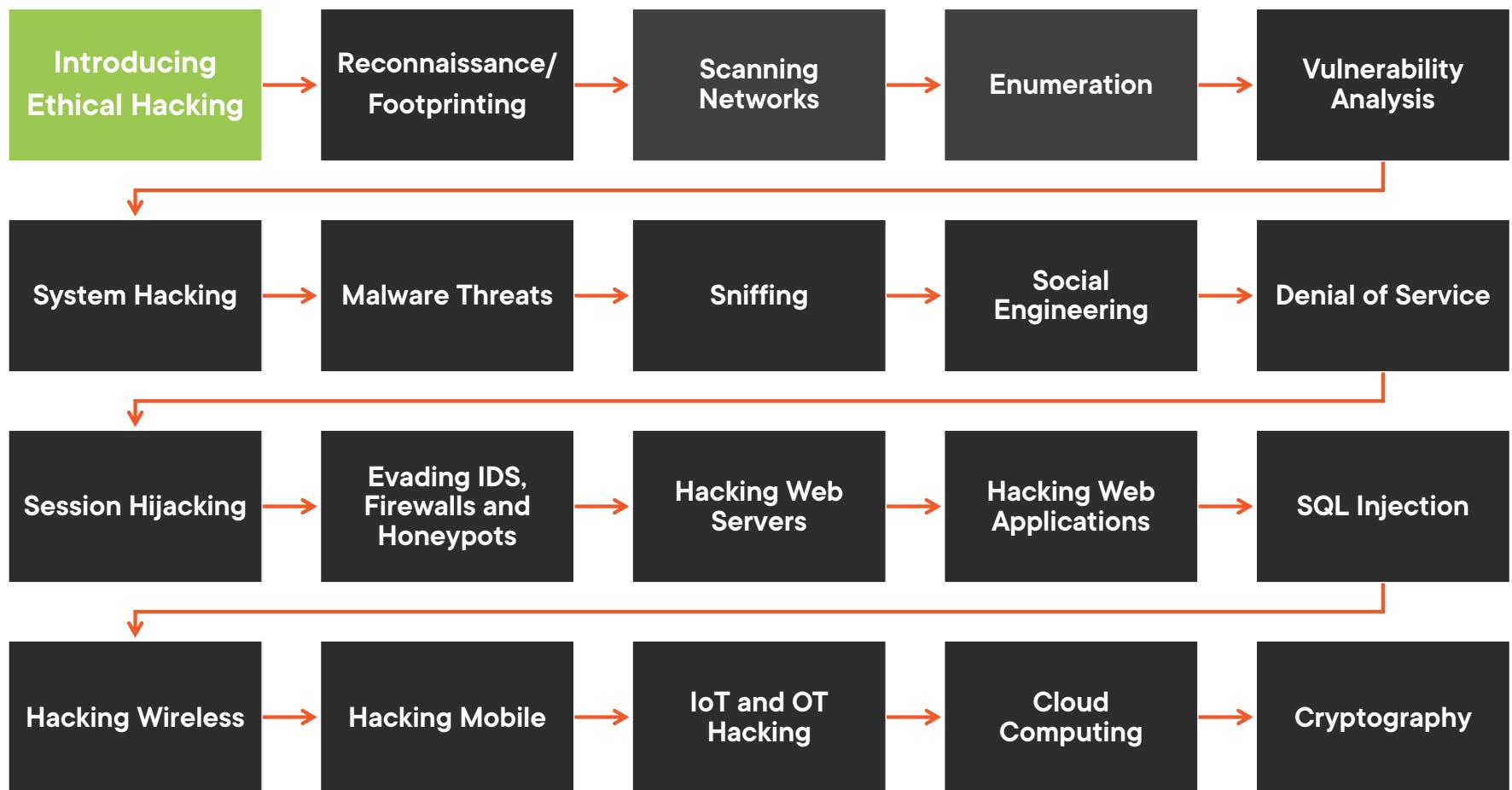


**Dale Meredith**

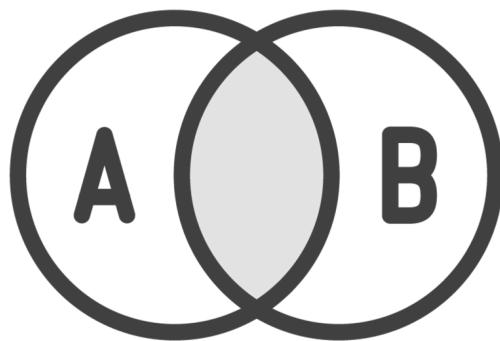
MCT | CEI | CEH | MCSA | MCSE  
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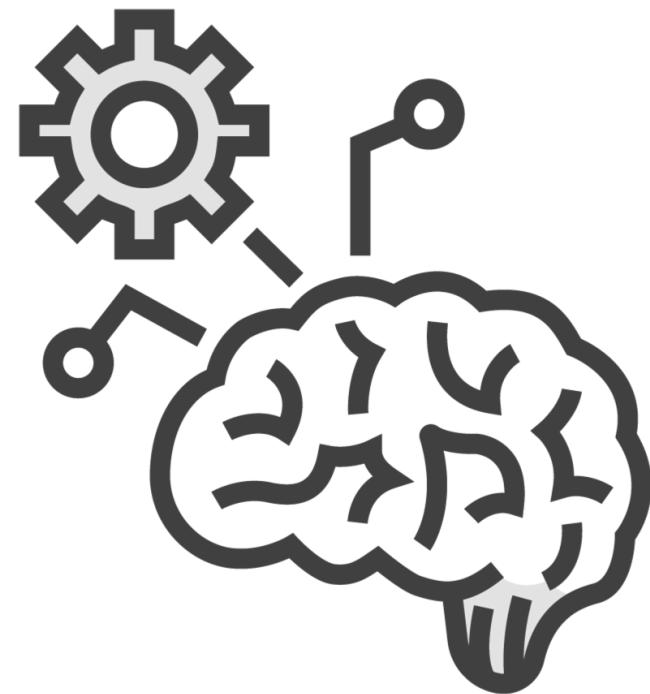
# Ethical Hacking Series



# The Method behind My Madness



# The Method Behind My Madness



# CEH Exam Study Tips

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# Survey Results



**Higher Salaries**



**70% held two  
certifications**



**Gives you an edge**

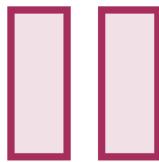
# Dale's Study Tips



**Study space**



**Take notes**

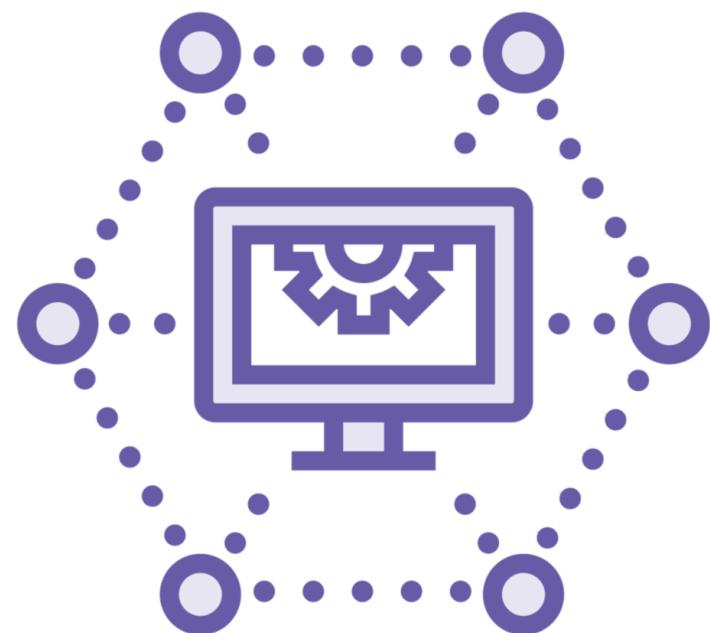


**Pause, think, repeat**



**Be kind and rewind**

# Dale's Study Tips



Life moves pretty fast. If you don't stop  
and look around once in a while, you  
could miss it.

**-Ferris Bueller**

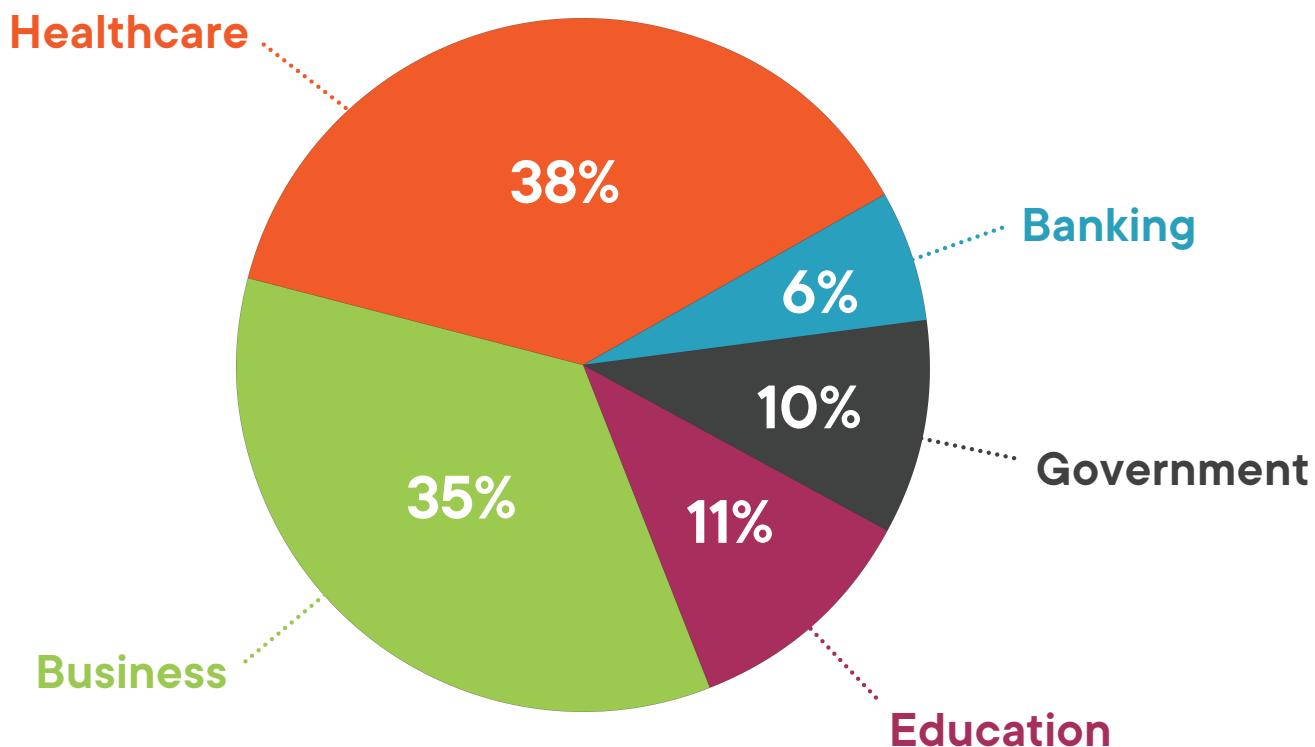
# Ethical Hacking?

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**If you know the enemy and know yourself, you need not fear the result of a hundred battles. If you know yourself but not the enemy, for every victory gained you will also suffer a defeat. If you know neither the enemy nor yourself, you will succumb in every battle.**

**Sun Tzu, The Art of War**

# Breaches by Industry



## Some Interesting Stats

**There is a hacker attack every 39 seconds**

**300,000 new malware is created every day.**

**The cybersecurity budget in the US is \$14.98 billion**

**Cybercrime is more profitable than the global illegal drug trade**

**Russian hackers can infiltrate a computer network in 18 minutes**

## Some Interesting Stats

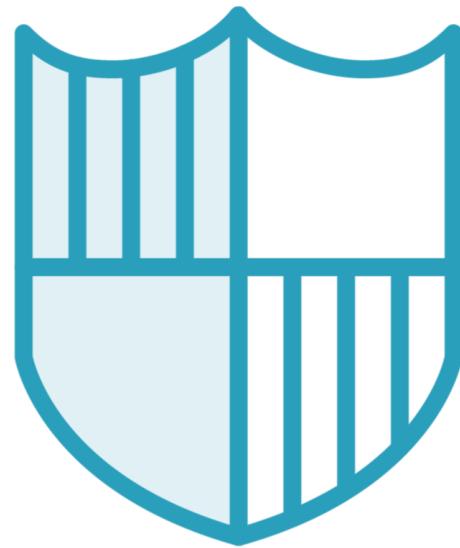
**65% of companies have over 1,000 stale user accounts**

**92% of ATMs are vulnerable to hacker attacks**

**Ransomware attacks happen every 14 seconds**

**65% of large companies have more than 500 employees who have never changed their passwords**

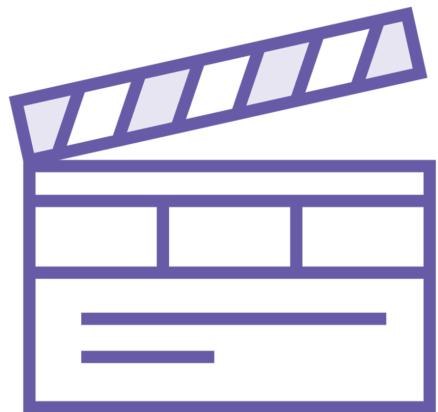
**More than 77% of organizations do not have a cyber security incident response plan**



**How protected do you feel?**

## A Little About the CEH Program

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If it wasn't **hard**, everyone would do it,  
**hard** is what makes **it** great.

**Tom Hanks -League of Their Own, 1992**



# What Certification Brings You



- Internationally recognized**
- Industry standard**
- Meets DOD Directive 8570.1**
- Benefits your resume**
- High demand certification**

# Who Should Watch This Series?

**Security officers**

**Auditors**

**Security  
professionals**

**Site administrators**

**Anyone that might  
be worried about  
being hacked**

# What's Expected of You

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# Code of Ethics

**<https://www.eccouncil.org/support/code-of-ethics>**

# What's Expected of You



**Privacy**



**Unauthorized usage**



**Intellectual property**



**Illegal activities**



**Disclosure**



**Authorization**



**Areas of expertise**



**No Villains allowed**

Source: <https://www.eccouncil.org/code-of-ethics>

Just because you can, doesn't  
mean you can.

**-Dale Meredith**

# Understanding Information Security

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# Fundamentals of Information Security

**Authenticity**

**Integrity**

**Availability**

**Confidentiality**

**Non-repudiation**

## Types of Attacks

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# Attacks = Motive + Method + Vulnerability



- Disrupt business continuity**
- Steal info/data**
- Create fear and chaos**
- Financial losses**
- Publicize political or religious beliefs**

Attacks = Motive + Method + Vulnerability

**Achieve a state's military objectives**

**Reputation of target**

**Revenge**

**Ransom**



# Classifications



**Passive attacks**



**Insider attacks**



**Active attacks**

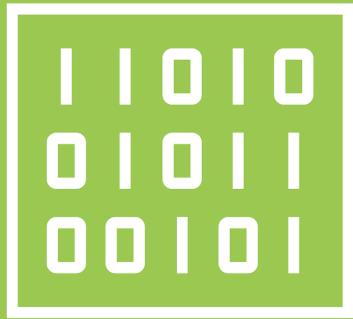


**Distribution attacks**



**Close-in attacks**

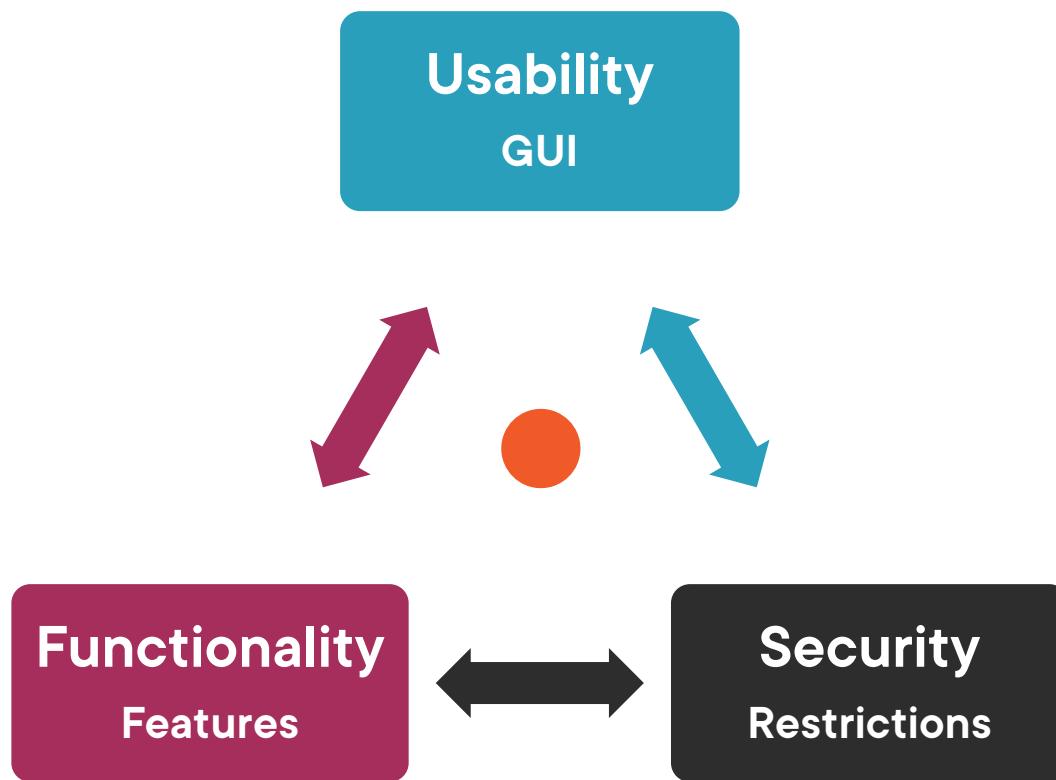
# The Solarwinds Attack



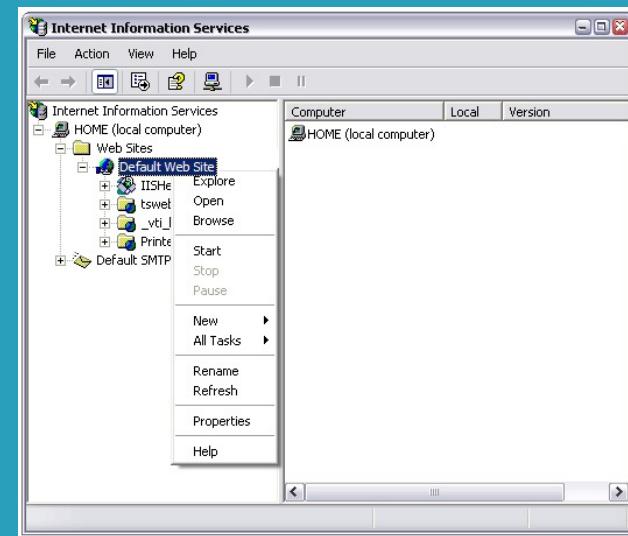
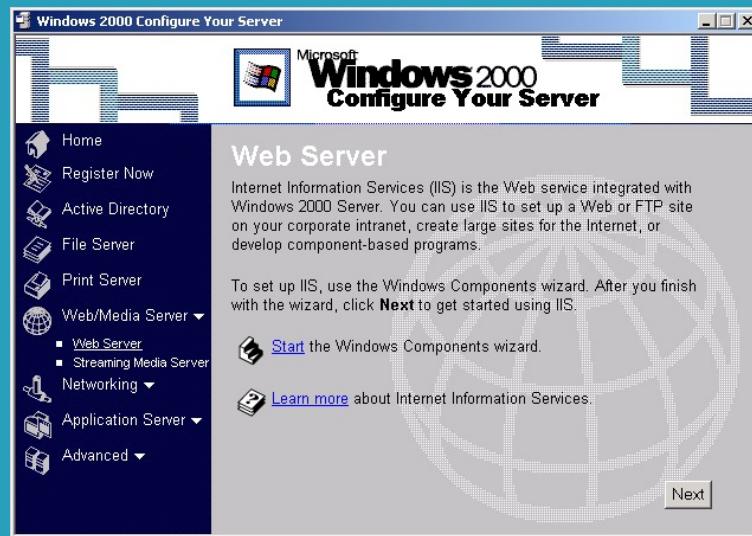
# The Technology Triangle

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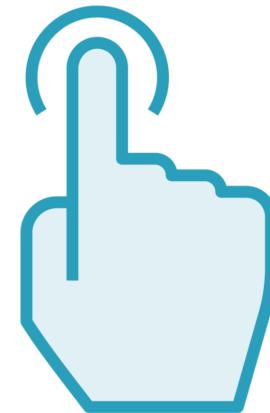
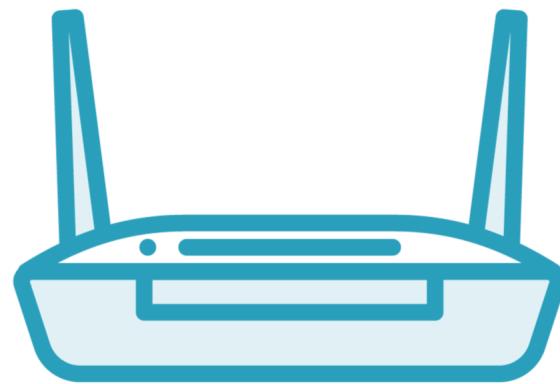
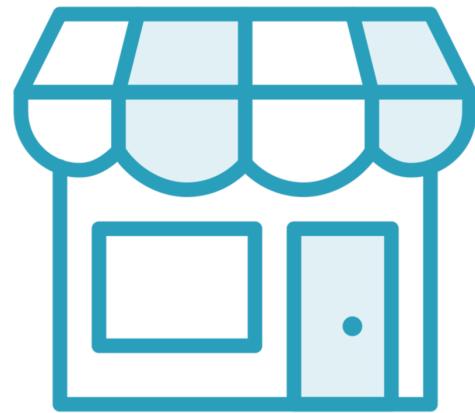


# Windows Server 2000 and IIS 5.0



181% increase in vulnerabilities

# Usability = Security Risks



# Learning Check

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**Passive attacks**



**Insider attack**



**Close-in attack**



**Active attack**



**Distribution attack**



Up Next: Understanding the Attackers and  
Their Methods

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