CLARUSWAY

WAY TO REINVENT YOURSELF

CompTIA (3A-3B-3C)

AGENDA

- 3A - Cryptographic Algorithms (3)
- 3B - Public Key Infrastructure (5)
- 3C - Cryptographic Solutions (12)
- TOTAL: 20

3A - Cryptographic Algorithms

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NO.1 A software developer released a new application and is distributing application files via the developer's website.

Which of the following should the developer post on the website to allow users to verify the integrity of the downloaded files?

A. Hashes
B. Certificates
C. Algorithms
D. Salting

3A - Cryptographic Algorithms

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3A - Cryptographic Algorithms

NO.2 A security administrator identifies an application that is storing data using MD5.

Which of the following best identifies the vulnerability likely present in the application?

A. Cryptographic
B. Malicious update
C. Zero day
D. Side loading

3A - Cryptographic Algorithms

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3A - Cryptographic Algorithms

NO.3 Which of the following is an algorithm performed to verify that data has not been modified?

A. Hash

B. Code check

C. Encryption

D. Checksum

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3B - Public Key Infrastructure

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NO.1 A security engineer is implementing FDE for all laptops in an organization. Which of the following are the most important for the engineer to consider as part of the planning process? (Select two).

A. Key escrow
B. TPM presence
C. Digital signatures
D. Data tokenization
E. Public key management
F. Certificate authority linking

3B - Public Key Infrastructure

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3B - Public Key Infrastructure

NO.2 A security architect at a large, multinational organization is concerned about the complexities and overhead of managing multiple encryption keys securely in a multi cloud provider environment. The security architect is looking for a solution with reduced latency to allow the incorporation of the organization's existing keys and to maintain consistent, centralized control and management regardless of the data location. Which of the following would best meet the architect's objectives?

A. Trusted Platform Module
B. IaaS
C. HSMaaS
D. PaaS

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3B - Public Key Infrastructure

NO.3 Which of the following is used to validate a certificate when it is presented to a user?

A. OCSP
B. CSR
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NO.4 A certificate vendor notified a company that recently invalidated certificates may need to be updated. Which of the following mechanisms should a security administrator use to determine whether the certificates installed on the company's machines need to be updated?

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3B - Public Key Infrastructure

NO.5 A spoofed identity was detected for a digital certificate.

Which of the following are the type of unidentified key and the certificate that could be in use on the company domain?

A. Private key and root certificate

B. Public key and expired certificate

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3C - Cryptographic Solutions

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NO.1 Which of the following describes the process of concealing code or text inside a graphical image?

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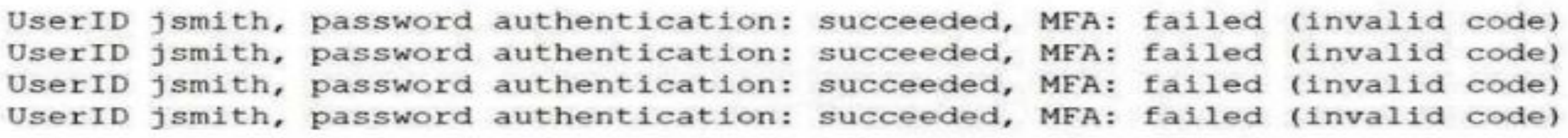
NO.2 A security analyst reviews domain activity logs and notices the following:



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UserID jsmith, password authentication: succeeded, MFA: failed (invalid code)
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Which of the following is the best explanation for what the security analyst has discovered?

A. The user jsmith's account has been locked out.
B. A keylogger is installed on [smith's workstation
C. An attacker is attempting to brute force ismith's account.
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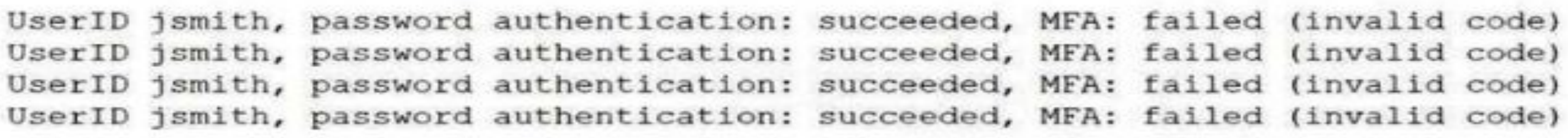

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NO.3 A bank insists all of its vendors must prevent data loss on stolen laptops. Which of the following strategies is the bank requiring?

A. Encryption at rest
B. Masking
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NO.5 Which of the following is used to add extra complexity before using a one-way data transformation algorithm?

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NO.6 A security consultant needs secure, remote access to a client environment. Which of the following should the security consultant most likely use to gain access?

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NO.7 An organization is leveraging a VPN between its headquarters and a branch location. Which of the following is the VPN protecting?

A. Data in use
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NO.8 Which of the following methods to secure credit card data is best to use when a requirement is to see only the last four numbers on a credit card?

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3C - Cryptographic Solutions

NO.9 Which of the following explains why an attacker cannot easily decrypt passwords using a rainbow table attack?

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B. Salting
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D. Perfect forward secrecy

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NO.10 A software developer would like to ensure, the source code cannot be reverse engineered or debugged.

Which of the following should the developer consider?

A. Version control

B. Obfuscation toolkit

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D. Continuous integration

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NO.12 Which of the following would best explain why a security analyst is running daily vulnerability scans on all corporate endpoints?

A. To track the status of patching installations
B. To find shadow IT cloud deployments
C. To continuously the monitor hardware inventory
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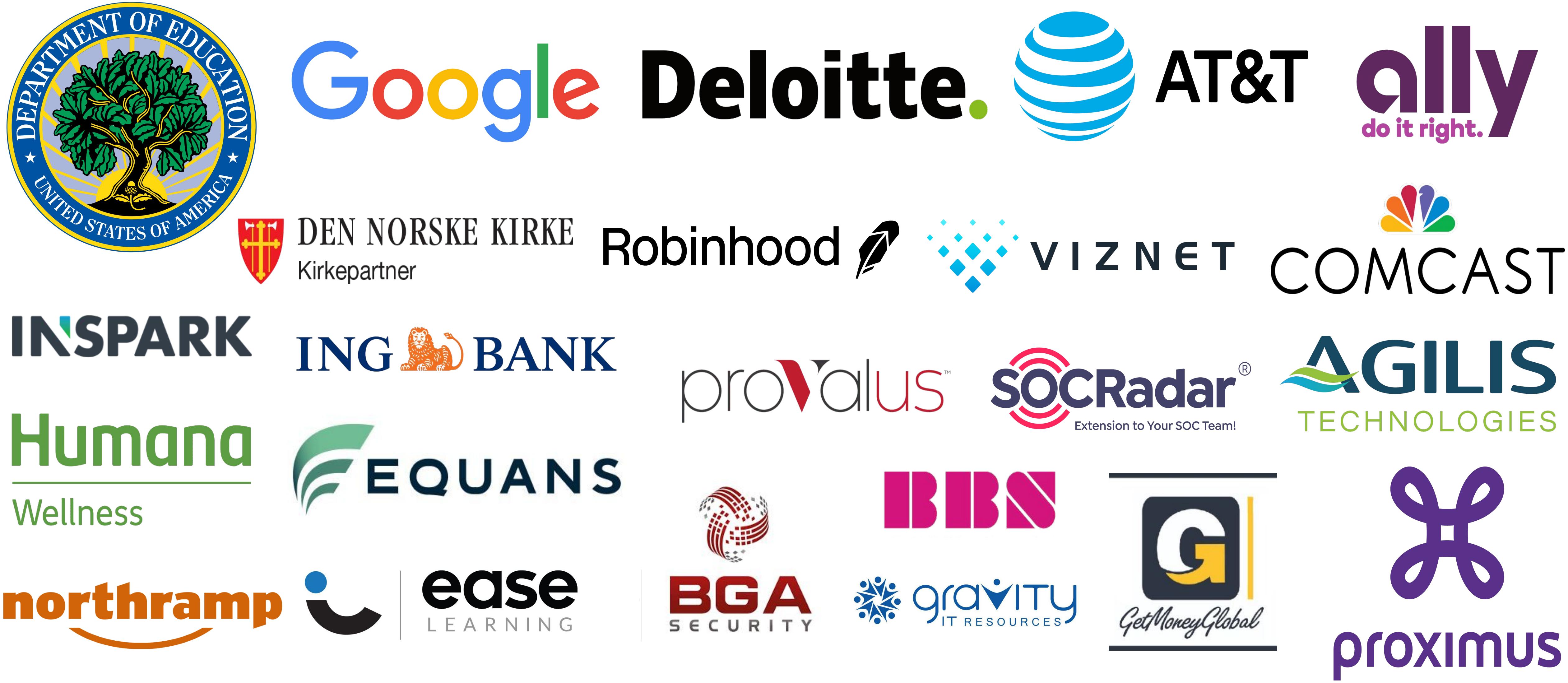
THANKS!

Any questions?

Our Graduates are Hired By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