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SAMPLING DISTRIBUTIONS

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1 Introduction

Statistics concerns itself mainly with conclusions and predictions resulting from chance outcomes that occur in carefully planned experiments or investigations. Drawing such conclusions usually involves taking sample observations from a given population and using the results of the sample to make inferences about the population itself, its mean, its variance, and so forth. To do this requires that we first find the distributions of certain functions of the random variables whose values make up the sample, called **statistics**. (An example of such a statistic is the sample mean.) The properties of these distributions then allow us to make probability statements about the resulting inferences drawn from the sample about the population. The theory to be given in this chapter forms an important foundation for the theory of statistical inference.

Inasmuch as statistical inference can be loosely defined as a process of drawing conclusions from a sample about the population from which it is drawn, it is useful to have the following definition.

DEFINITION 1. POPULATION. A set of numbers from which a sample is drawn is referred to as a **population**. The distribution of the numbers constituting a population is called the **population distribution**.

To illustrate, suppose a scientist must choose and then weigh 5 of 40 guinea pigs as part of an experiment. A layman might say that the ones she selects constitute the sample. This is how the term "sample" is used in everyday language. In statistics, it is preferable to look upon the weights of the 5 guinea pigs as a sample from the population, which consists of the weights of all 40 guinea pigs. In this way, the population as well as the sample consists of numbers. Also, suppose that, to estimate the average useful life of a certain kind of transistor, an engineer selects 10 of these transistors, tests them over a period of time, and records for each one the time to failure. If these times to failure are values of independent random variables having an exponential distribution with the parameter θ , we say that they constitute a sample from this exponential population.

As can well be imagined, not all samples lend themselves to valid generalizations about the populations from which they came. In fact, most of the methods of inference discussed in this chapter are based on the assumption that we are dealing with

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CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions

(Q482-Q487):

NEW QUESTION # 482

A networking team was asked to provide secure remote access to all company employees. The team decided to use client-to-site VPN as a solution. During a discussion, the Chief Information Security Officer raised a security concern and asked the networking team to route the Internet traffic of remote users through the main office infrastructure. Doing this would prevent remote users from accessing the Internet through their local networks while connected to the VPN.

Which of the following solutions does this describe?

- A. Split tunneling
- B. Asymmetric routing
- C. Full tunneling
- D. SSH tunneling

Answer: C

Explanation:

The concern is users operating in a split tunnel config which is what is being described. Using a Full Tunnel would route traffic from all applications through a single tunnel. <https://cybernews.com/what-is-vpn/split-tunneling/>

NEW QUESTION # 483

An organization's hunt team thinks a persistent threat exists and already has a foothold in the enterprise network.

Which of the following techniques would be BEST for the hunt team to use to entice the adversary to uncover malicious activity?

- A. Apply new isolation and segmentation schemes.
- B. Deploy a SOAR tool.
- C. Modify user password history and length requirements.
- D. Implement decoy files on adjacent hosts.

Answer: D

Explanation:

Implementing decoy files on adjacent hosts is a technique that can entice the adversary to uncover malicious activity, as it can lure them into accessing fake or irrelevant data that can trigger an alert or reveal their presence. Decoy files are also known as honeyfiles or honeypots, and they are part of deception technology. Deploying a SOAR (Security Orchestration Automation and Response) tool may not entice the adversary to uncover malicious activity, as SOAR is mainly focused on automating and streamlining security operations, not deceiving attackers. Modifying user password history and length requirements may not entice the adversary to uncover malicious activity, as it could affect legitimate users and not reveal the attacker's actions. Applying new isolation and segmentation schemes may not entice the adversary to uncover malicious activity, as it could limit their access and movement, but not expose their presence. Verified Reference: <https://www.comptia.org/blog/what-is-deception-technology>
<https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 484

An energy company is required to report the average pressure of natural gas used over the past quarter. A PLC sends data to a historian server that creates the required reports.

Which of the following historian server locations will allow the business to get the required reports in an OT and IT environment?

- A. In the OT environment, allow IT traffic into the OT environment.
- B. In the OT environment, use a VPN from the IT environment into the OT environment.
- C. In the IT environment, allow PLCs to send data from the OT environment to the IT environment.
- D. Use a screened subnet between the OT and IT environments.

Answer: D

Explanation:

A screened subnet is a network segment that separates two different environments, such as OT (operational technology) and IT (information technology), and provides security controls to limit and monitor the traffic between them. This would allow the business to get the required reports from the historian server without exposing the OPOT environment to unnecessary risks. Using a VPN, allowing IT traffic, or allowing PLCs to send data are less secure options that could compromise the OT environment. Verified

Reference: <https://www.comptia.org/blog/what-is-operational-technology> <https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 485

Ransomware encrypted the entire human resources fileshare for a large financial institution. Security operations personnel were unaware of the activity until it was too late to stop it. The restoration will take approximately four hours, and the last backup occurred 48 hours ago. The management team has indicated that the RPO for a disaster recovery event for this data classification is 24 hours.

Based on RPO requirements, which of the following recommendations should the management team make?

- **A. Increase the frequency of backups and create SIEM alerts for IOCs.**
- B. Leave the current backup schedule intact and pay the ransom to decrypt the data.
- C. Leave the current backup schedule intact and make the human resources fileshare read-only.
- D. Decrease the frequency of backups and pay the ransom to decrypt the data.

Answer: A

Explanation:

Explanation

Increasing the frequency of backups and creating SIEM (security information and event management) alerts for IOCs (indicators of compromise) are the best recommendations that the management team can make based on RPO (recovery point objective) requirements. RPO is a metric that defines the maximum acceptable amount of data loss that can occur during a disaster recovery event. Increasing the frequency of backups can reduce the amount of data loss that can occur, as it can create more recent copies or snapshots of the data.

Creating SIEM alerts for IOCs can help detect and respond to ransomware attacks, as it can collect, correlate, and analyze security events and data from various sources and generate alerts based on predefined rules or thresholds. Leaving the current backup schedule intact and paying the ransom to decrypt the data are not good recommendations, as they could result in more data loss than the RPO allows, as well as encourage more ransomware attacks or expose the company to legal or ethical issues. Leaving the current backup schedule intact and making the human resources fileshare read-only are not good recommendations, as they could result in more data loss than the RPO allows, as well as affect the normal operations or functionality of the fileshare.

Decreasing the frequency of backups and paying the ransom to decrypt the data are not good recommendations, as they could result in more data loss than the RPO allows, as well as increase the risk of losing data due to less frequent backups or unreliable decryption. Verified References:

<https://www.comptia.org/blog/what-is-rpo>

<https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 486

A security officer is requiring all personnel working on a special project to obtain a security clearance requisite with the level of all information being accessed. Data on this network must be protected at the same level of each clearance holder. The need to know must be verified by the data owner. Which of the following should the security officer do to meet these requirements?

- A. Assign attributes to each file and allow authorized users to share the files.
- **B. Assign labels to the files and require formal access authorization.**
- C. Assign roles to users and authorize access to files based on the roles.
- D. Create a rule to authorize personnel only from certain IPs to access the files.

Answer: B

Explanation:

Labels are a way to classify data according to its sensitivity level. Formal access authorization is the process of granting users access to data based on their security clearance and need to know.

NEW QUESTION # 487

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