CONCORSO PUBBLICO, PER ESAMI, A N. 1 POSTO DI CATEGORIA C, POSIZIONE ECONOMICA C1, AREA TECNICA, TECNICO-SCIENTIFICA ED ELABORAZIONE DATI, PER LE ESIGENZE DEL CENTRO DI ATENEO PER I SERVIZI INFORMATIVI (CSI) DELL'UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II (COD. RIF. 2217), INDETTO CON DECRETO DEL DIRETTORE GENERALE N. 766 DEL 21.07.2022 E PUBBLICATO SULLA G.U. IV SERIE SPECIALE N. 67 DEL 23.08.2022

Tracce non estratte alla prova orale del 04.11.2022

Traccia 3

ll candidato descriva gli aspetti più importanti legati al networking in una rete di ampie dimensioni e con forte distribuzione territoriale con particolare riferimento agli aspetti legati alla sicurezza;

Il candidato illustri i sistemi di asset inventory e asset management in situazioni caratterizzate da un elevato numero di postazioni di lavoro;

T1 Framing

This field configures the T1 or E1 link for operation with D4 Super Frame (sf) or Extended Superframe (esf). The default is **esf**.

Line Code

This field configures the router for operation on binary 8-zeros substitution (B8ZS) or alternate mark inversion (AMI) T1 lines. The b8zs setting ensures density on a T1 or E1 line by substituting intentional bipolar violations in bit positions 4 and 7 for a sequence of eight zero bits. When the router is configured with the AMI setting, you must use the data-coding inverted setting to ensure density on the T1 line. The default is **b8zs**.

Data Coding

Click **inverted** if you know that user data is inverted on this link, or if the Line Code field is set to AMI. Otherwise leave this set to the default value **normal**. Data inversion is used with bit-oriented protocols such as HDLC, PPP, and Link Access Procedure, Balanced (LAPB) to ensure density on a T1 line with AMI encoding. These bit-oriented protocols perform "zero insertions" after every five "one" bits in the data stream. This has the effect of ensuring at least one zero in every eight bits. If the data stream is then inverted, it ensures that at least one out of every eight bits is a one.

Cisco SDM will set data coding to inverted if the line code is AMI and there are no time slots configured for 56 kbps. If you do not want to use inverted data coding with the AMI line code, you must use the CLI to configure all time slots to 56 kbps.

Facilities Data Link (FDL)

This field configures the router behavior on the Facilities Data Link (FDL) of the Extended Superframe. When configured with **att**, the router implements AT&T TR 54016. When configured with **ansi**, it implements ANSI T1.403. When you choose both, the router implements both **att** and **ansi** choices.When you choose none, the router ignores the FDL. The default is **none. If T1 or E1 framing is set to sf,** Cisco SDM will set FDL to **none** and make this field read-only.

<u>Traccia 6</u>

Il candidato descriva gli aspetti legati all'amministrazione dei sistemi operativi client più diffusi, sia on premise che in ambiente cloud, con particolare riferimento al sistema Linux

Il candidato descriva le criticità legate alla sicurezza informatica di una rete di ampie dimensioni, con particolare attenzione al trattamento dei dati personali

Enable Engine Fail Closed

By default, while the Cisco IOS software compiles a new signature for a particular engine, it allows packets to pass through without scanning for the corresponding engine. Enable this option to make the Cisco IOS software drop packets during the compilation process.

Enable Deny Action on IPS interface

This option is applicable if signature actions are configured to "denyAttackerInline" or "denyFlowInline." By default, Cisco IOS IPS applies ACLs to the interfaces from which attack traffic came, and not to Cisco IOS IPS interfaces. Enabling this option causes Cisco IOS IPS to apply the ACLs directly to the Cisco IOS IPS interfaces, and not to the interfaces that originally received the attack traffic. If the router is not performing load balancing, do not enable this setting. If the router is performing load balancing, we recommend that you enable this setting.

Edit IPS Prerequisites

The Edit IPS Prerequisites dialog contains tabs for the following categories of information. Click on a link for the information that you want to see:

- Config Location Tab
- Category Selection Tab
- Public Key Tab

Config Location Tab

If a config location has been configured on the router, you can edit it. If none has been configured, you can click Add and configure one. The Add button is disabled if a config location is already configured. The Edit button is disabled when no config location has been configured. See Create IPS: Configuration File Location and Category for more information.

Category Selection Tab

If you specify a signature category, SDM configures the router with a subset of signatures appropriate for a specific amount of router memory. You can also remove an existing category configuration if you want to remove category constraints when selecting signatures.

d'ordine della Presidente

della Commissione

F.to il Segretario

Ing. Riccardo Elio Esposito