INFORMATION SECURITY
ASSIGNMENT 02
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K200183; Sec: B

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## QUESTION NO.01

Following are the two cloud security chapter topics which google Infrastruture implements

01) Security Audits & Monitoring:

Ale to the whitepaper provided by Grosgle, it specifically works with vendors they work with to choose components with care for their data center. They regularly audit & validate the security propert of the components being used in their data centers. They also implement best practices such as audit legging & source coole repositories where past and current version of the cale (as be audited.

Trust Model

Grosgle's Beyond Corp initiative is a prime

example of zero-trust security implementation.

This model assumes that no elevice or user is trusted

by default abether inside or outside the returne

This approach is based on the principle of least

priviledge, which nears that the users are only

granted access to the resource they read to a

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Date:
QUESTZON NO. 02
Google uses a multi-layer, multi-frèr Dos production
System to safeguard its services from Dos attacks,
this approach shows a multilaner depense to
Groogle was a multi-layer, multi-free Dos production bystem to safeguard its services from Dos attacks, this approach shows a multilayer defense to mitigate a absorb Dos attacks.
into these biers.
into these biers
the state of the s
- Tier 1. Network-level protections-
- Google's extensive biberophic provides a robust
tourdation for handing large anounts of traffic
= at the edge of crookle's Network, load bollences &
E various other lectroiques are used to filler
malicious traffic
- Tieuz: Service level protection
Tieu 2: sewice rever production
- 6222 des uses - polis des Carol Pica M. E
- troogles uses application level firewalls & introvious detection to prevent Pos attacks on application/service level.
on application/service level.

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	Tier 03: Operational Response:
7	
>	monitos evolving Dos altacks & develops continuously
	monitois evolving pos alfacks & develops countermeasure
9	for the
	- Gogle also has incident response teams which
	- Gogle also has incident response teams which investigate & respond to Dos altacks
29	QUESTZON NO. 03
	Croade well a sophisticated Intravior detection
9	sistem (DS) to regitar & detect potential security
<del>3</del>	Crogle uses a sophisticated Intrusion detection system (IDS) to ranitor & detect potential security preaches across vast retwork & services.
9	D'Olds Ciclos Cist
<u> </u>	Host-based Intrusion detections
·	- Aread IDS are included an abolition of
<del>3</del>	- Agent based IDS are installed on additional servers to monitor their activities & la suspicious.
3	servers to monitor of the country as to suspinately
3	events
<u> </u>	of D D D There: GD D.
3	Network Based Intrusion detections
<u> </u>	
	NIA (Network (raffic Analysis) martons
,	retuork traffic patterns & identifies anomalies
	On derivations from somal behavior that could
	NTA (Network Traffic Analysis) marifors retwork traffic patterns & identifies anomalies  Or derivations from normal behavior that could indicate an attack.
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