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	Information Security
	Assignment # 1
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	Question no 1
3.	I magin you are -
1-	Identify three potential
	vulnerbilities in the company's
	current Security Setup
	Security Vulnerability
	A security valnerability is an
	unintended characteristic of
	a comparing component that
	multiplies risk of an adverse
	event or loss occurring either
	due la orcidental enposure,
	deliberate attack or conflict
	with new system components

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There are numerous ways security
vulnerabilities voud enter your
Following are three Vulnerabilities
Security Misconfiguration O cocurity misconfiguration orises
- The second of
when essential security settings
implemented with errors- Such
error create dangerous security gaps that leave the application and its data (and thus the
organization itself) open to a cyber attack or breach-
2- (
Sensitive Data Exposure
Sensitive data is anything that
Should not be occessible
to unauthorized access.

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	Sensitive data Emposure occurs
	Densitive data of
	when an organization unknowing
	when sure data
	enposes sensitive data. Such data
	a result
	enposure may occur as a result
	of indequate protection of
	of marayers
	database - Sensitive data exposure
	· cours ways
	can happen in several ways
	human regligence con cause data
	Moiricen.
	to be uploaded to public website
	Inappropriate access controls might
	Inappropriate of Cert
	lead to a single employee
	coste al mose a huge
	owning control over a huge
	database of sensitive information
3-	I rdequate Authentication
	Authentication vulnerabilities
	asing these ascerd emuch
	ause when there are not enough
	checks and ballances to seset
	passwords and credentials.
	Thus means that a hacker
	might emploit the "forget parsuped"

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	option present in every login System to back your account and find a backdoor to initiate an account.	
7-	Preventing Measures For Seavily Misconfiguration	
	create warning signals that admins and developers should	
	match for Real flags include no tification of multiple login	
	install software and user's web searches being redirected	
the state of the s	A Lack of upper society knowledge	
	results in insecure practices and human errors which increa	

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the risk of breames- Employ	ees -
must be trained about the	
need of strong passwords	_
and rules for handling	
Sensitive data	_
>> Secure coding practices one	
essential to prevent mixonfig	realion -
issues - Developers must assure	4.5
peoper input joutput data validati	<u> </u>
in the code	
For Sensitive Enposure	
Catalog Date	
In order to protect their	
consumers data : organization	
need to make sure they keep	
track of all the data stone	d.
within their system and perfor	Lym
an audit (analysis)	

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	Appropriate Security controls
	Missonization must have
	se curie
1	in place to avoid
	consitive data en
	well as to limit their
	impacts on data subjects
	Assess Risks Associated to Data
	In order to protect date, organization
	need to have clear emplest anding
	of the data visk. The more
	sensitive the date is the
	heigher the risk of harm
	vill be.
	Organization must have an
	effecient breach response
	mechanism in place to
	Sudden responde to sensitive
	data exposure

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	For Indequale Authentication	
-	Keep your systems, saftware, application, networks and	
-#);	to protect from authentication	
	bypass vulnerability St is recommended to install	
	a good antivirus program and patch all vulnerabilities	
=	Ensure that all your systems? applications and folders	
	are pursuord protected	
-	Security enperts recommend having a unique and strong	
	password than default	
	pauswords	