Network Security



	Network Security
	Page
*	Comparison ey IDS with Firewalls :-
, ->	Installing is and firewall offers upper-
	1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
\rightarrow	INC 10 - A COULTE TO
	Theips detects thereat and generate alerts.
	Theips detects thereat and generate alerte fourt of the end-fourt of the e
->	Firewall is an active peretertive device that
	FUELDICUS IS 400 GETTER PROPERTY IS A COLLEGE IS A
	Silver and Irs. It for the helps
	the metadata of the new packets and helps block/allow the traffic based on some fresed engles.
	Block allow the traffic
	eules.
	This creates a boundary on which some types
	of traffic of or perotocols cannot pass.
*	It heeps a wheek on evouters, firewalls, key
(3)	It heeps a wheek on eventers, gite dont abase
	servers and jules and uses its doct abase
	do vaise the alarm & send notifications!
(11)	effers certealized management
	of the attack
(1110)	At august all attaches
	ballerne and helps the activity
	organize and implement greater to
رنى	Acts as additional layer of peretertion for
(10)	dhe company.
4	Disadu. / Challenges y FDS :=
7	For Figo Floring Dellan
(F)	Eneuring Effective Deployment 8-
->	Deploying IDS can be feirly, and if net
C	some peroperty it may weate unrerabilities
	for outical asses.

Chapter 1	
ing and Investigation as	
understanding very (illie into which is	
understanding and Investigating every some obs avery gives very (ille hybo which is some hard be investigate. That is negligating the IDS avery can the interpretation of the i	Lines
thaid to recently the IDS alette san	
-> also, investigating the IDS aletts can use the and enescurre-intensive, which may eneque	ne
and enescent to identify the serious requi	ire
and the additional into identify the seriousness of	the
astack:	
min Hanaging a right volume of Alerk :	
min Hanaging a regionally exalled a re)
-> Since there is over age but builder o	-
> Since there is vest majority of attacks are generated by IDS, it may but burden of irrernal teams do identify each of them.	
internal Fears as income	
(3) unewing How do Paclile Thereass &-	8
To surelling flate of home INS gives leaded also	
-> sometimes a home IDS gives false ala	ms,
so top uper security team needs do b	1
updated with eatest updates in 188	and
vey domains of cyber security.	
* 100 1 1 10 1 10 Parama 1 10 2 10 1 0	
* 1PS (Internation Perevention System) 3-	
-> 1 ps is also be known as Intermion Detertion	and
Perevention System.	
-> Meyer function of IPSs are do identify	
malicious activity, collect info about this	8
activity and, expett it and attempt do	block
er exp cit.	
-> IPSs are way contemplated as argument	lation
of ISS because both operate now fression	2
and system activities for malicious activity.	
- I'l Jublically evera tho elected do	Alani I
observed events, notify security administr	CHAIR !

	Page Date
->	Hay IPS also everyond do thewar ky afterpting to perevent it grown concreeding. They was various everyonse techniques which
\rightarrow	aftempting as person
	They use various susponse form que itsey.
*	Consequences of
Τ.	Network-Based Internsion ferevertion
	210 tom (10/13) o
	It moniters the entire network for suspicion traffic by analyzing perotocal activity
٩.	wirefers IPS (WIPS) 3-
\rightarrow	The state of the s
	fliofoids.
3.	Network Behaviour Qualysis (NBA) 02
	that appearates unusual tractic years, such
	as distributed devial of service attacks? speryic jorn of malware & pelicy violations.
,	
	frost-Based IPS (HIPS) ?-
->	It is an inbuilt sow package which eferter
	a single host for doubtful activity by
5	scanning events that occur within that hest
	2

	Printer Office Comments of the
	11 of 1PS 3-
*	Detection method of 1PS 3- Signature - Based Detection 8- signature - Based Detection 8- Meterates backets in n/w and compares with
1	signature outlets in n/w and compares with
->	so operates partie benedefined attack patterns
	fere-built and fires.
	signature - Based Detection 8-
	I I - DU IUG NUERILIA
2.	Statistical anamary and compares ist It moritors new traffic and compares ist It ay established baseline.
-	at moure
	against southly current a jurnal for
-	The base 10.0000 are alod.
	that now and what peretorous are used. That now and what peretorous are used. Thewever, it may eraise a false alarm if the baseline is net intelligently eorgiguered. baseline is net intelligently eorgiguered.
->	However, it may the configured.
	baseline is net mediges of
Nor of the	-1-1-indelection &-
3	Stateful perotocol analysis detection 8-
-	Policia - Dualed Con
->	It legalit is spe
	cogique security pelicies based on an organization's security pelicies and n/w
	organization's security pelicies and now
	i fraslewiture.
->	It any activity bulans a defined security
	peling, it an alert is periggered and sent
	to the admi's
	A SECRETARIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANION DEL COMPANIO DEL COMPANIO DEL COMPANION DEL COMPANIO
¥	comparison of the with the
7	comparison y IPS with IDS. 8-
7	1 BS an erganization know y another alous or
	Tes an eigenzament whom y and mans of
	malicieus acticuity is defected.
	du IPS talles this défection one step furthur
	and their down the new before acress con be
	gained or to prevent justhur nevement tha u
	0

	Page 2	
*	Audit Peraul &	
111111	that was book place for an activity in an characteristical order. Therefore, a the trail records 8-	
1000	choionelogical order	
\rightarrow	Therefore of the trail records 8-	
	who: user er appli perogram and a	
	transaction no	
	When: Date and Pine	
0	where: location of user worked upon or	
10	what: Data that a say	
13	is modified.	
->	e.g. when checkeut get hill is type of	
	market after shepping, the bill is type of	
	market after shepping, the pur all necessary audit brail, where we fill all necessary	
	1.50.	
	0 1 0	
*	why Audit Prail & nest essential thing for dudit Prail is one of the mest essential thing for dudit Prail is one of the mest essential thing for	
->		
	any company or organization as they heep any craos / inregularity	
	that a all the truits	
1 - 1 - 1 - 2	the filture (do) we	
->	It containes security of an erganization.	
\rightarrow	It makes an erganization lecustweethy.	
->	ou types y industries and organizations nations nations in an audit trail as	
	et mandaturg mieitary and data.	
- 7	they deal with sersitive injo. and data.	
\b (1 1'1 (2-0-1)	
	ypes of Audit Prail:	
	etemas audits &	
	ly external audit is an independent	
exa	mination of the financial statements feepated	
5		

	C Pete Dege O
	by the organization.
->	Expernal audits are performed by CPA (certified public accountants) girms hired by a
	public accountains) girms third by a
	builties and accurate
	y accounding records mai vained by a company.
2.	greenal audits:
->	They are beformed according the engan lating, one
	depositement performs with per expertences
->	in hold in gettern by all engancation
	1 1010 (11HON)
	skeps de auxoid ilproning eich.
3.	Ivernal Revenue Service (IRS) Budit &
->	performed do avoid any tax violations.
->	It is a type of external audit performed on
	organizations that are accused guilty of
	pewuiding unong fax data.
*	Advortages &
1.	
8.	casy verification
3,	Maintaining Financial History.
4.	Casy newery
*	Disadvantages :
T.	mantainance cost :
->	extra maintainance that it requires, hing of
	CA, Lost of memory etc.
2.	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
,	in hands of a attack all dates of a company
1. Q. 3. 4.	Frand Pereventions. casy verification Harrison History. Casy necessary.