## ASSIGNMENT # 02

Date:\_

BASIL ALI KHAN 201-0477 and NIDS is HIDS Q#01) Based on these videos define how imple mented. Host Based Intrudion detection (41803) and Network Based intrusion detection system (NIDS) are integral comporents of a comprehensive security infastructure, serving distinct purposes in identifying and imagining potential security threat SHOST BASED INTRUSION DETECTION SYSTEM (4108) 3 HIDS monitors and analyzes activities within tollividual hosts or endpoints, such as servers, workstations, or delies. It focuses internal hosts activities and detects suspicious or malicious behaviour that could indicate on intrusion of security breach gothware agents are installed directly on individuals Hosts or endpoints. These cookprints agents continously monter and oraly ze various system activities including fle integribly, system logs, registry onerges, process activities and user actions. agents compared observed behavious against predefined rules or signatures, flagging my devations of anomalies as potential security threats it generales alerts or notification when it detects unauthorized or asnormal activities that could indiale a security incident HIBS finctions autonomously on each hosts providing granules Insight into host appealing activities. He capable of delecting both known and unknown threads by oralyzing level behaviours and deviation from normal pettern . H helps in identification and containment of intollions Page Victory

insights into affected systems NETWORK BASIED INTRIBION DETECTION SYSTEM (NIDS): NIDS is designed to monitor and onlyse network traffic for signs of malicrais activities or seawity through. It operates at the network, analyzy poillets toward the deployed at strategic points within network infactively, typically at network galeways or within segment of network. network in not time. Uses sensor of appliances to captive and anarly in network packets applying various detection techniques like signation based detection, and behaviour ordhysis Inspects network traffic sinchedy protocols, packetheadess
paylouds and traffic pasterne to identify Guspicous
behavor of known ortacle signature Montor's inaming and outgoing network traffic, flagg ay unusual or potentially threating activities. It identifies patterns or signates associated with known affack types abnoomed traffic benexas or waithorned access afterpts NIDS generales aleak or alems when it dekels not now the based threader, allowing security teams to investigate and respond grompthy approach each fooding in deflicat components of layered secrety monthing while HDS fooding on monthing industrial host activities NIDS agan takes on unalyed network traffic to identify Page Victory

Date:	
pokatal thouas.	111.18
Q#02) HOW is this reladed to techniques	outtine in
tellbook chapter # 8 108 section 8.4 and o	. 2 .
The video discuss HIDS involving in monthory	y and markey
authorities or individual endpoints or nots. To	derect
3 aspectus octnity. This velete wan section	0 14
elasorates on purpose, implementation, and da	ter sorreis
used in HIDS.	
IMPLEMENTATION SIMILARITIES:	
use of small +races, audot log records, file	integraty
cheekans and region allers as detar sources -	for HDS
which relates to data somes outher in 8.1	
ANOMALY DETECTION IN 4100;	
Emphastzed analysis of system calls traces to	delect
asposmal behaviour relates with section 8.4	explonation
of namely biled delection using system coll ?	traces on
UMX 1 LINUX Systems.	
WINDOWS BASED 4109:	
Challenges with anomaly based HDS on Windows a	duel to IL
usuage with corresponds to defaulties mentional	
8.4 regarder system calle traces on windows	- flattorn.
Also new approuches using our function call to	vaces which
perallele section 8.4 exploration of albimatile	data Dikes
for Window HIDS.	

	Date:
	months of rehvorte
traffic Description perfect march	mat a stored in
traffic for interior pattern match	osnept out
traffic for intousion pattern match	
-50,01) 83	
NOS SENSON DEPLOYMENT:	I pessive aligns
NIDS SENSON DEPLOYMENT: Deployment of sensor both invine and with section 8:5 exploration of int	ine and pasque
with section 85 exportion of	montong.
sensors used in themen	
INTOUSION DEFECTION TECHNIQUES:	anomaly based
BOTH SOULLES COVERED SIGNATURES:	the begandles
IN 10 1 HOLD OF THE PROPERTY O	ues to comp
distribut in section 85.	and word fro
Anomaly defection techniques little DDOS worms, reflectly the mondy defects and seekers	states, some
thomas defects is morody defects	ton eagles measured
worms, sested of	
Emphasize on logging of all the and se	levent information
Emphasize on logging of all the was	I by NIDS SCORES.
whon potential violetin se cuita	
	A STATE OF THE STA
	1 10 A 1 1 1 2 1 1
The state of the s	