		Ġ.
	VIRTUAL SYSTEMS & SERVICES	
	ASSIGNMENT NO 2:	
	CLOUD SECURITY MECHANISMS	
	The state of the s	
-	Identify one cloud-based service you use. Describe	
	one sewity feature of this service and how	0
	it protects your date.	10
	II Process	
	Dropbox is popular aloud-based service used for	
	storing and sharing files across multiple devices-	
	One of the most imp security feature of Dropbox	the second second
-	is file encryption, which plays a crucial role in	
	protecting your data.	(8)
-	The Continuing Dynology:	
=7	File Encryption in Dropbox: File Encryption is a process of transforming	
	readable data into secure format that can only be	
	readable data into secure in her deconstation here. Proposit	
	accessed by someone who has decryption hey. Proposit	
	utilizes both at-rest encryption and in-transit	
	encryption to protect the file stored in cloud.	141
	the short of the second of	
0	In-Transit Encryption =>	
	This areas don't any data being	
	large and Dropbor's servers is entirely	
	in act I the This makes it as	
	to intercept or alter the data using transfer.	772

	DATE://	
=>	At-Rest Encryption:	
	Once your files are stored in Duplocxis.	
•	somers, they are encrypted using 256-bits AES.	-
	This ensure that even it an attached were to	
	acia man Harried access to Prophox's geners,	
	they would not be block to read your data	
	without the decryption hay.	
	and the second s	
	How File encryption protects data in Dropbox:	-
	Protection from Data Breaches:	4
0	Even if hackers manage to breach	
- Carlotte	proposi's infrastructure, they would only encounter	
	energyted data. Without the energytion hey, the	
	data would remain irreadable, reducing the	d - E
	risk of exposing generative intermedian.	
	NSK: OF EXPOSING SELECT	
~	C - Cu - Chamina:	
(2)	Sewe file Sharing: When files are shorred with others, the	
	encryption ensures that only authorized resipients	
	an view or access the Alex. This agree users	ika.
-	control over who can read their date, even if	1
- Acres	the files are shared externally.	5
	the files are shares external	
	Carachi Chardondo	
3	compliance with Security Standards:	
1	Droptox complies with several industry	-
agein des tests	seemy standards and as 180/ IEC 27001 &	
· ·	soc 2 Type 11, which require valust encryption	
	measures to protoct user data, ensuring that	
	the service meets highe standards of protection.	
S. Santa Caraca		