31/12/21 PAGE 1 43 DATE Day 24/100 Security & Compliance IF AWS Shared Rosponsibility Model - Protecting infrastructure Chardware, suffrage,

- Protecting infrastructure Chardware, suffrage,

facilities & network) that suns all the Paws services

- Managed service like S?, DynamoDB, ROS ot. · Customer surpossibility - Security in the devid - For EC2 instance, Customer is responsible for management of the guest OS Cincluding security butches & utdates), fravell & nelvak Configure , 5/2m - & nurphy applich dela. CUSTOMER DATA CUSTOMER Platform, Apple cahon, Joney & Access Managemen Oberoting Sintem, Nedwork of Engenall Configures. Responsibility for searry Client-sche Oak Server-Side Gray Networking touthe IN the Chard Enery & Rata Strong CFile Sistem Pretichon (GACM).
Authoritication And/OR DATA) Dr. Legrity, 50 en 44). AWS COMPUTE STORAGE DOTATION NO two king Responsibily her Jainty Hardware Aws Globle Enfras Andura Region Awile With Ine God Locken OF the Cland

3//12/21 DATE PAGE 144 DDOS Protection on Aus · Aws shield Standard: protects against DDOS
affack for your mobside and application, for all Customers at noadditured · ANS Sheeld Advanced: 24/7 fremium DDas fratection.
· ANS WAF: Filter Specific requests bused on · Claud Front & Route53: - Available brotection Using glabal edge Network - Combined with AWS Sheld, brindes oftack · Be ready to scale - lexingge Aws Auto Scalling Shiold > AWS · AWS Skield Standard: - Free Service that is activated for every AWS Customer - Provides protection from attacks such as SYN/VOP Floods, Reflection attacks & other layor3/layery attacks. · AWS sheld Advanced: - Optional DDOS mitryation service (\$3000

Ber moth per organia)

31/12/21 PAGE 1 45 -Protect against more Sofhisticated attack on Amazon Ecz, Clarke Loud Belancing [E13], Amazon CloudFront, Aws Global Accelerator, 8 - 24/7 access to AWS DOS response team IDRP). - Brother against Righer fees during usage spikes due to DDOS. =7 HWS WAF - Web Application Fixewall - Protects your web application Iron Common wit explais (Clarger 7) Layer 7 18 HTP CV8 Lager 4 18 7CP) Deploy on Application Load Belancer, APT Gateray, cloud Front Dephe web ACL (wab Access Contral Is). Rules can intelude IP addresses, 4718 leader, 417P body or URS strings Protects from Common attack - SQZ injection & Cross-Site Sorphing CXSS) - Size Constroints, geo-match (black Countries) - Rate - based rules Clo Count occurrences of events) - for DDOS prelection

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	21/n/21 DATE DATE
	· ·
	It Penetration Testing on AWS Cloud
	· AWS Customer are welcome to carry our sounds assessments or handown testing against their Aws
	assessments or partachen testing against their Aws
	infrastructure without prior approval for 8 sorner
1	- Amazon EQ instances, NAT Gathays, & GLB
	- Amgzon ROS
	- Amazon Cland Front
	- Amazon Aurorg
2/5/4	- Amazon API Gateways
47	- AWS Lambola & Lambda Folgo Sunctions
	- Amazon Lightsail resources.
	- Amgzon Clastic Beanstelk environments.
	and a description of the first in the second of the second
	=> Prohibited Activities
A	- DNS zone Walking via Plmgron Route 53 Kersty
	20hes
7	- Denial of service (DOS), Distributed Denial of
3	Service (DDOS), Simulated DOS, Simulated
	Dos.
	- Port flooding
	- Protocol fleveling
	- Request Slealing [login request Slending,
	APT request flowly)
į.	From him is a margined of in
L	· Husting You tour sensitive for on is
	hours in north lower these.
es	

31/12/21 DATE ______ PAGE 147 # Data at vest V8 Data is Exansit Yest on 675 - Consist while I Yest on GFS Gncypted at Xust On 83 - On a hard disk, on a RDS instance, in 83 Glacier Deep Rocheve etc. · In Honsit (in motion): data being moved from - Transfer from On-fremises to Aws, 602 to DynamobBete - Means deta transferred on the network. · We want to encept denta in both studes Jos his we levinge enorphon keys # AWS KMS (Key Management Service) Anytime you hear encription for on Ans Service, its most likely Kins.

3//12/21 PAGE 1 48 · KMS = AWS manages the enoughton ky for is · Encryption off-in: · EBS volumes: encrypt volumes · 83 buckets i Server-Side encoy of objects Red Shift database: encry of date · RDS database: ency of deta · EFS drives: ener of data Encryption Adomatically english · Cloud Trail lags S3 Glaux · Storay Galery # Claud HSM · KMS => AWS manages the software for ency. · Claudusm >> Aus provisions ency hardware · Dedicated Hardware USM= Hardware Securty Midules · You manage your own enciphon key entity Cnot Aus device is himper sensent, FIPS
40-2 level 3 Compliance ADDS Mondo he to SSL Connection Mardingn he peus

3//2/21 PAGE 1 4 9 DATE # Types of Customer Masterky: CM/ · Customer Managed CMK: -Create, manage and used by the Customs

con enable or disable

- Possibility to rotate Palicy Chew

ky generated every year, old ky presence)

- possibility to bring-your-own-ky. · AWS monoged CMR! - Create, managed & used on the Customer behalf by Ans. Used by AWS Services Cans/s3, aws/obs, avs/redshift) HWS Owned CMK: - Collection of CMKs that on AWS service own and manages to use in multiple accounts - AWS can use those to pretect 828048Ce in Your account (but you can't · Cloud HSM keys (Custom kystore): Clay dusm Lardwise divice - Cryptographic operation are performed

31/2/21 DATE | | | PAGE / 50 # AWS Certificate Manager (ACM) Let's you easily provision, monage &

de Roy SSL/715 Costificates provision &

Used to provide in-flight prospanting

encryption for wassites cm 715 Cris ra of change for bullic · Integrations with Cloud The Continueter on) - Elaste Load Belany V3. - Clayd Front Distributions