PAGE 81 Day 14/100 -> # RDS Deployments: Read Replicas, Milli-AZ · Read Replicas - Scale the read workload of your DB - Can Create up to 5 Road Replicas Data is only written to the main DB. replication Amazon replacedo Amazon ROS ROS Main Read Replica Read Replica 1, read write 1 read J. Koud Application(s) · Multi - A2: - Failover in case of A2 outage Chigh availability - 11 Can only have I other A2 as kulover Replication Guss AZ Mazon Fallower DB writer 1 fread Application (8) Failover in Care of issues with main 08

PAGE 82		DATE	17/12/21	
FRDS 1	Deployments	: Mult - Re	gions	
• /	Julti-Region (	Read Replic	cas)	
,	- Loca	l performance lication Cost	for glad	of region 185W.
	TO PA	Icanon Cost	· · · · · · · · · · · · · · · · · · ·	
- earl-2		eu-west-3	ap-804	rpst-2
Amazon ROS Road Robi	d	Amazon ROS Main write frad Abblicator	willes R	end Replica
#	Amazon Elas	ti Coche Overvi	ew	
	- The Some	Dakbarus.	is to get	mana ged
5	- Elasti Coo	he is to get	+ managed	Redis or
3	- Caches	Pare in-m ce , low leter	emay da ha	lases with high
3	- Melha	workland	land off do	latere for road
3	- AWS A	hom, sotile Co	nlighty hon	montoring,
	Lilar	e revery	and backup	5

PAGE 83 # Elasti Cache Solution Architecture - Cache Clerticate Real/wide from Carle Fast ECZ Drivence Hossily man Asto Read/wite Amy 201 From DB ROS Slower SQ2 [relational] Detaken # DynamoDB -> - Fully Managed Highly available with NOSQ2 da labare - nota relations DB - Scales to marrive workloads, distributed millions of request persecond, trollions of Nows , low TB of 8 hrage 

PAGE PY - Front and Consistent in performance. - Single-digit millisecond - Itegrated with IAM for security, Low Cost and outo scaling opposition # Dynamo DB - type of data DynomoDB 18 a kykalu database
Products 1 Amibuter Rekid Duma Chebler Acceleration - DAX Managed in-memory Cache for Dynamo DB - 10x performance improvement - Single - digit millisecond latency to miles seconds ledency when accessing your DynamooB Lables

PAGE 85 - Secure, Lighty scalable & highly ovailable - Difference with GlastiCache at the CCP level: DAX is only und for and Integrated with Dyname DB, while Clarticache can be used for other databuse application Dynamo DB Acal who # Ked Shift Overview - Redshift is based on Postgreson, but it's not OLTP Online - It's OLAP - Online analytical processing (Conalytics & data warehourng) Tramachan Processing ES

18/12/L)
DATE \_\_\_\_\_\_ PAGE 8 6 - Lead data once every hour, not every second - We better ferformance than other data wavefewer, scale to PBs of Lata. - Columnar Storage of Lata Consted of row band - Marrive Parallel Quey Grecution (MPP), highly
available - Pay as you go band on the instance provisional - Has SQL interface for performing the querus -BI fouls such as Aws Quicksight or Tableon integrate with it H Amazon EMR. -EMR Skinds Port "Elastic Mcp Redine" - EMR Stands helps creating Hadorp Clusters
(Big Data) to analyze and process Wast
amount of Lata - The Clasters Con be made of hundreds of ECZ instances supports afache Spark, UBare, Presto, - Also supports afache Spark, UBare, Presto, Flink ---

PAGE 17 -Engl takes care of all provisioning ? Configuration - Auto-Scalage and integrated with 8 pot - Use Cares: deta forcessing, machine locating, wit industry, big data # Athena - Fully Serverles database with SQI Copybilities - Used to grey date in 53 - for for 24ey - Outfut results back to 33 - Secured through 1AM -Use Case: One-time SQL Mories, songeles sieves On S3, log confession. # AMAZON QUICK Light idelligence service to cracte interactive · Fast, automatically scalable, embeddable, with

17/12/21 PAGE PP DATE · USE Case - Business analytics - Building Visualizations -Perform orthoc analysis -Get burner myhte ang data · It Integrated with RDS, Perora, Athena, Redshift, S3 .--