Managed	AWS Component	Description
		SECURITY
No	IAM	<ol> <li>Controls individual AND group access to a resource</li> <li>Supports MFA</li> </ol>
No	Amazon S3	<ol> <li>Stores unstructured data</li> <li>Stores files as object</li> <li>Max file size: 5TB</li> </ol>
Yes	AWS Transfer Family	<ol> <li>Transfer files to S3 AND Amazon EFS</li> <li>Protocols available (SSH, SFTP, FTPS, FTP, AS2)</li> </ol>
No	EBS volume	<ol> <li>Persistent block storage</li> <li>Can attach to any instance in the same availability zone</li> <li>HDD or SSD</li> <li>Can be encrypted</li> <li>Snapshot persisted to S3</li> <li>Data persistence independent from instance status</li> </ol>
Yes	Amazon EFS	<ol> <li>File system storage for Linux based</li> <li>Fully managed</li> <li>Scaling up and down automatically</li> <li>Supports NFS</li> <li>Mount the FS to the EC2 instance</li> </ol>
Yes	Amazon FSx for Windows File Server	<ol> <li>File system for windows</li> <li>NTFS</li> <li>Integrates with MS Active Directory and supports Windows Access Control Lists (ACLs)</li> </ol>

		COMPUTE
No		Virtual Machine
	Amazon Elastic Compute Cloud (Amazon EC2)	1. Can scale up or down as needed
Yes	EC2 Image Builder	Produces secure, validated and up to date images     Enforces version control
No	AWS Compute Optimizer	<ol> <li>Recommends optimal instance</li> <li>Analyses workload and makes recommendation</li> </ol>
No	Amazon Elastic Container Service (Amazon ECS)	Container
No	Amazon Elastic Kubernetes Service (Amazon EKS)	Container
No	Amazon Lightsail	Virtual Private Server (VPS)
No		Platform as Service (PaaS)

	AWS Elastic Beanstalk	
No		Serverless
	AWS Lambda	
No		Serverless
	AWS Fargate	
	Г	DATABASE
Yes		1. Relational database
	K_Z	2. 7 choices including Aurora
		<ol><li>Uses Amazon EBS for database and log storage (done within the RDS instance)</li></ol>
	<b>L</b> 7	Within the ribe inetallies)
	Amazon RDS	
Yes		Full MySQL/PostgreSQL compatibility     Mysti A7 double great with Average Bog lines.
	<b>○</b> †.+	2. Multi-AZ deployment with Aurora Replicas
	Aurora	
	7.4	
Yes		Key-value and document data models
		2. MongoDB compatibility
	Amazon DynamoDB	
	Бупатіовь	
Yes		JSON Document database
		Different from DynamoDB
		3. MongoDB compatible
	DocumentDB	
Yes		1 Graph database
tes		Graph database

	Amazon Neptune	
Yes		1. Wide column data model
	Amazon Keyspaces	2. Apache Cassandra compatible
Yes		
	Amazon ElastiCache	
Yes		Timeseries database
	Amazon Timestream	
Yes		1. Ledger database
	Amazon Quantum Ledger Database (Amazon QLDB)	2. Tracks every application change
Yes		1. Redis compatible
	Amazon MemoryDB for Redis	2. In memory database service
Yes		Data warehousing service
		2. Has serverless option
	L	

	Amazon Redshift	
Yes		Migration and replication service
		2. Helps moving database to AWS
	AWS DMS	
		NETWORKING
		COMPONENTS
No		Isolated virtual network
		2. Belongs to ONE region
	Amazon VPC	3. Sized by range of IP addresses (=CIDR block)
No		Public Subnet
No		When associated to an internet gateway, it has access to internet     Instances in a public subnet require a public and private IP address
		private ii address
No	₽	Private Subnet  1. No direct access to internet
No		Elastic IP address
140	O \	1. Public
	$\longrightarrow$	2. Static
		3. Associated with 1 instance
		4. Can be transferred to another instance
<b>A.</b>		Don't to be
No	172.16.0.0 172.16.1.0 172.16.2.0	Route table
No		NAT gateway

No		Network ACL (Access Control Layer)
No		AWS Network Firewall
No		Elastic Network Interface
No		Interface VPC endpoint
No		Gateway load balancer
		TROUBLESHOOTING
No		Reachability analyser  Test connectivity between a source and destination resources in a VPC
No	* <u>*</u> *	Network Access analyser  Identify unintended network access to your resources on AWS
No		Traffic Mirroring  Make a copy of network traffic to send to security and monitoring appliances.