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helps define Web ACLs, which is a combination of Rules that is a combinations of Conditions and Action to block or allow integrated with CloudFront, Application Load Balancer (ALB), API Gateway services commonly used to deliver content and applications supports custom origins outside of AWS, when integrated with CloudFront Third Party WAF act as filters that apply a set of rules to web traffic to cover exploits like XSS and SQL injection and also help build resiliency against DDoS by mitigating HTTP GET or POST floods WAF provides a lot of features like OWASP Top 10, HTTP rate limiting, Whitelist or blacklist, inspect and identify requests with abnormal patterns, CAPTCHA etc a WAF sandwich pattern can be implemented where an autoscaled WAF sits between the Internet and Internal Load Balancer is a managed service that provides protection against Distributed Denial of Service (DDoS) attacks for applications running on AWS provides protection for all AWS customers against common and most frequently occurring infrastructure (layer 3 and 4) attacks like SYN/UDP floods, reflection attacks, and others to support high availability of applications on AWS. These conditions include IP addresses, HTTP headers, HTTP body, URI strings, SQL injection and cross-site scripting. analyzes continuous streams of meta-data generated from AWS account and network activity found in AWS CloudTrail Events, VPC Flow Logs, and DNS Logs. helps protect web applications from attacks by allowing rules configuration that allow, block, or monitor (count) web requests based on defined conditions. securely control access to AWS services and resources helps create and manage user identities and grant permissions for those users to access AWS resources helps create groups for multiple users with similar permissions not appropriate for application authentication is Global and does not need to be migrated to a different region helps define Policies, in esU edadiralunary roiam arap acitAlop ed sepA\$Aidnoc sa esU etnemraluger snoitatiderc etatoR siaicnederc rahlitrappmoc ed zev me sepA\$Anuf odnasu etageleD 2CE me sovitacilpa arap MAI sejA\$Anuf sa esU egelivirp tsael 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retrnam arap security modules (HSMs) available in the AWS cloud single tenant, dedicated physical device to securely generate, store, and manage cryptographic keys used for data encryption are inside the A\$VPC A\$ (not EC2-classic) & A\$ Isolated from the rest of the network can use VPC peering to connect to CloudHSM from multiple VPCs integrated with Amazon Redshift and Amazon RDS for Oracle EBS volume encryption, S3 object encryption and key management can be done with CloudHSM but requires custom application scripting is NOT A\$ fault tolerant and would need to build a cluster as if one fails all the keys are lost expensive, prefer AWS Key Management Service (KMS) if cost is a criteria gives applications in AWS access to Active Directory services different from SAML + AD, where the access is granted to AWS services through Temporary Credentials Simple AD least expensive but does not support Microsoft AD advance features provides a Samba 4 Microsoft Active Directory compatible standalone directory service on AWS No single point of Authentication or Authorization, as a separate copy is maintained trust relationships cannot be setup between Simple AD and other Active Directory domains Don't A\$ use it, if the requirement is to A\$ leverage access and control through A\$ centralized authentication service AD Connector acts just as an hosted proxy service for instances in AWS to connect to on-premises Active Directory enables consistent enforcement of existing security policies, such as password expiration, password history, and account lockouts, whether users are accessing resources on-premises or in the AWS cloud needs VPN connectivity (or Direct Connect) integrates with existing RADIUS-based MFA solutions to enabled multi-factor authentication does not cache data which might lead to latency Read-only Domain Controllers (RODCs) works out A\$ as a Read-only Active Directory holds a copy of the Active Directory Domain Service (AD DS) database and For authentication requests, they can not be written and are normally deployed in places where physical security can not be guaranteed helps maintain a single point to authentication controls And authorization, however, needs to be synchronized, gravitable domain controllers. Changes can be made on any gravable server in the forest, and these changes are replicated to servers throughout the forest is a Web application firewall that helps monitor the traffic http / https and allows control of the context of the control. Provides AWS Shield with additional protections in more sophisticated and larger attacks for EC2 execution applications, ALB, CloudFront, AWS Global Accelerator and Route 53 offers threat detection which allows continuous monitoring and protecting AWS accounts and workloads. It operates completely regardless of resources, so there is no risk of performance or availability available for workloads is a self-assessment assessment service that helps test The accessibility of the network of EC2 instances and the security status of applications in execution on the instances. Integrated intelligence of threat, as known malicious IP addresses, detection of anomaly and machine learning to identify threats with more need. Helps automate security vulnerability evaluations throughout the pipeline of development and deployment or against static production systems, is a portal of artifact recovery Self-service Audit that provides customers on demand access to AWS compliance documentation and agreements can use AWS Artifact reports to download AWS Security and compliance documents such as ISO AWS certifications, cards (PCI) and systems control systems and organizations relatives. relatives.