

## AWS Certified Cloud Practitioner

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1. **Amazon Elastic Compute Cloud (Amazon EC2):** Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud. It is designed to make web-scale cloud computing easier for developers.
2. **Amazon Web Services (AWS):** Amazon Web Services (AWS) is a secure cloud services platform, offering compute power, database storage, content delivery, and other functionality to help businesses scale and grow.
3. **AWS Identity and Access Management (IAM):** AWS Identity and Access Management (IAM) enables management access to AWS services and resources securely. Using IAM, it is possible to create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources.
4. **AWS Shield:** AWS Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield provides always-on detection and automatic inline mitigations that minimize application downtime and latency, so there is no need to engage AWS Support to benefit from DDoS protection. There are two tiers of AWS Shield - Standard and Advanced.
5. **AWS Web Application Firewall (WAF):** AWS WAF is a web application firewall that helps protect web applications from common web exploits that could affect application availability, compromise security, or consume excessive resources.
6. **Cloud:** Cloud computing is a general term for anything that involves delivering hosted services over the Internet. These services are broadly divided into three categories: Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS).
7. **Infrastructure-as-a-Service (IaaS):** In an IaaS model, a cloud provider hosts the infrastructure components traditionally present in an on-premises data center, including servers, storage, and networking hardware, as well as the virtualization or hypervisor layer.
8. **Platform-as-a-Service (PaaS):** Platform as a service (PaaS) is a cloud computing model in which a third-party provider delivers hardware and software tools, usually those needed for application development, to users over the internet. A PaaS provider hosts the hardware and software on its own infrastructure; as a result, PaaS frees users from having to install in-house hardware and software to develop or run a new application.

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9. **Software-as-a-Service (SaaS):** Software as a service (SaaS) is a software distribution model in which a third-party provider hosts application and makes them available to customers over the Internet.
10. **White Paper:** A white paper is an informational document, usually issued by a company or not-for-profit organization, to promote or highlight the features of a solution, product, or service. White papers are often written as sales and marketing documents used to entice or persuade potential customers to learn more about or purchase a product, service, technology or methodology.

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