

Unit - 5

DATE: PAGE:

Q.1 1 Marks.

i) Salesforce is Example of SaaS cloud service [true/false].

→ True

ii) What is Cloud Watch?

→ CloudWatch is monitoring and observability service provided by Amazon web Service for monitoring resources and applications running on AWS.

iii) Write Phases of AWS Resource Management.

→ The phases of AWS resources management typically include Provisioning, Configuration, monitoring, and optimization.

iv) write names of First party Monitoring Tools.

→ First-party monitoring tools provided by AWS include Amazon CloudWatch, AWS Config, AWS X-Ray and AWS Trusted Advisor.

Q5) Write names of Third party Monitoring Tools.

→ Third-party monitoring tools for AWS include Datadog, New Relic, Splunk and Dynatrace.

Q.2 Answer the following:

i) What is CloudWatch Dashboard?

→ A CloudWatch Dashboard is an AWS tool that offers a customizable interface for monitoring various metrics, logs, and alarms of AWS resources in real-time.

→ Users can create widgets to visualize data such as CPU utilization, network traffic and error rates, enabling quick assessment of resources health and easy identification of issues.

2) ~~What PS \ Alarms 9 write down steps to
create Alarms?~~

2) what is CloudWatch Logs?

→ Amazon CloudWatch logs enable you to store, monitor and access files from AWS services like Amazon EC2 instances, Route 53, etc.

→ It also helps you to troubleshoot your system errors and maintain the logs in highly durable storage.

3) What is Alarm 9 write down steps to
create Alarms.

→ In AWS, an alarm is a feature of Amazon CloudWatch, which is a monitoring and management service. Alarms are used to monitor metrics and trigger actions based on predefined conditions.

* Steps :-

- 1) Go to the CloudWatch dashboard on the AWS management console. Click on Metrics in the left pane.
- 2) In All metrics section click on EC2
- 3) Click on Per-instance metrics
- 4) Select the instance you launched.
- 5) Go to Graphed metrics, click on the bell icon.
- 6) This dashboard shows the components of Amazon CloudWatch such as Namespace, Metric Name, Statistics, etc.

4) Discuss Usecases of CloudWatch.

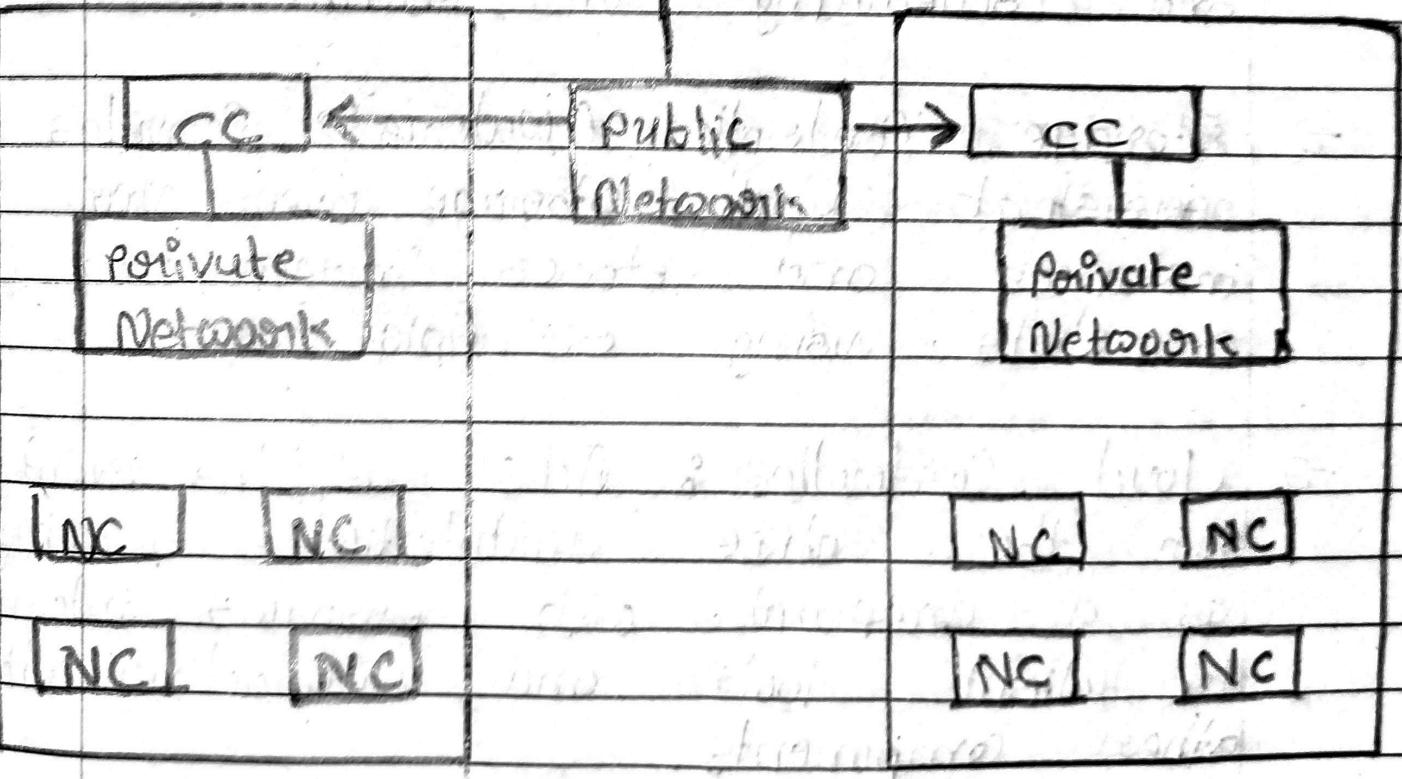
- CloudWatch can be used to monitor the performance of AWS resources, applications, and infrastructure components in real-time.
- CloudWatch allows users to set up alarms that trigger notifications or automated actions in response to changes in the state of their resources.
- CloudWatch can be used to store, search, and analyze log data from various AWS services, applications, and infrastructure components.

CloudWatch

5) Write Note on Eucalyptus.

→ Eucalyptus is an open-source cloud computing platform that implements IaaS, allowing users to build private and hybrid clouds using their own infrastructure.

Eucalyptus Cloud and Networks



cluster A

cluster B

* Architecture :-

- Node Controller :- Manages the lifecycle of instances running on each node, interacting with the operating system, hypervisor, and cluster controller.
- Cluster Controller :- Manages one or more Node Controllers and Cloud controllers simultaneously, gathering information and scheduling VM execution.
- Storage Controller (Walrus) :- Provides persistent block storage over VM instances and stores Images and snapshots using S3 APIs.
- Cloud Controller :- Acts as the front-end for the entire architecture, serving as a compliant web services interface to client tools and interacting with other components.

* Features :-

- 1) Images :-
- 2) Instance Instances :-
- 3) Networking :-
- 4) Access Control :-
- 5) Elastic Block storage :-
- 6) Auto-scaling and Load Balancing :-

* Operation Modes :-

- 1) Managed mode :-
- 2) Managed (No VLAN) mode :-
- 3) System mode :-
- 4) Static mode :-

Q) Write Notes on Microsoft Azure.

→ Microsoft Azure, introduced by Microsoft in 2010. Azure serves as Microsoft's resources cloud platform, akin to Google cloud and Amazon Amazon Web Services. It provides access to Microsoft's resources, analytics tools, and more.

→ Azure operates on a "Pay As you Go" model.

* Key Azure Services and Operation Models:

1) IaaS :

provides virtual machines, storage, and networking resources, allowing users to manually build and deploy applications.

2) Platform PaaS :

offers services like Azure App Service, Azure Functions, and Logic Apps, providing pre-configured environments for application deployment with features like auto-scaling and load balancing.

3) Software SaaS :

offers fully managed services such as Office 365, Dynamics 365 and Azure Active Directory, handling deployment, scaling, and load balancing of cloud applications.

* Use Cases and Benefits of Microsoft Azure %

→ Application Deployment %

→ Identity and Access Management %

→ Data Storage and Database %

→ DevOps and CI/CD %

→ Disaster Recovery and Backup %

④ → Application Deployment % Azure enables the development and deployment of applications through services like Azure App Service and Azure Functions, facilitating access for end-users.

Microsoft

DATE:
PAGE:

→ Data storage and database in Azure provides various storage services like Blob storage, Table storage, and Azure SQL Database; scalable according to data volume.

it's

the
lications

P