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Ahana writing sample
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Ahana glossary

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | XYZ |

A

ACM

The AWS Certificate Manager ([ACM](https://aws.amazon.com/certificate-manager)) creates, stores, and renews public and private SSL/TLS X.509 certificates.

- ACM requests a certificate and deploys it on the AWS Elastic Load Balancers, Amazon CloudFront, and APIs.
- ACM creates private certificates for your internal resources and manages the certificate lifecycle.

ACM Certificate

The ACM certificate identifies your domain name. You must validate ownership of the certificate domain in your request. You validate ownership using email or DNS.

- Every ACM certificate must include one Fully Qualified Domain Name (FQDN).
- ACM certificates are valid for 13 months (395 days).
- Renewal of ACM certificates and provisioning is managed by ACM. Using the ACM automatic renewal option reduces downtime.

Active VPC

An active Virtual Private Cloud (VPC) connected to a service provider.

Ahana Cloud Policy

A set of cloud permissions required to use Ahana services.

Ahana Cloud Provisioning Role Name

A required role name to set-up your Ahana account.

Ahana Compute Plane

XXXXX.

****Ahana account ID****

Your Ahana account identification number.

****Ahana-managed Hive Metastore****

The Ahana-managed Hive Metastore (HMS) is used to create managed or internal tables using the `ahana_hive` catalog as managed tables in Hive.

- The HMS is pre-configured to store managed tables in an Amazon S3 data lake.
- Each cluster has an Amazon S3 bucket configured for the HMS.
- Ahana configures HMS to point to the S3 bucket.

****AWS CloudFormation****

The AWS CloudFormation models a collection of AWS and third-party resources by treating infrastructure as code.

- Using a CloudFormation template simplifies the provisioning of your AWS application stack.
- A template creates, updates, and deletes an entire stack as a single unit instead of managing resources individually.

****AWS EC2 Instance Type****

A virtual server in Amazon's Elastic Compute Cloud (EC2).

****AWS EKS Cluster****

A managed Kubernetes service on Amazon's Elastic Kubernetes Service (EKS).

****AWS IAM****

Identity & Access Management (IAM) used by AWS to manage permissions.

****AWS IAM Role ARN****

Amazon Resource Names (ARN).

- ****AWS IAM Role ARN**** Amazon Resource Names (ARN).

****AWS Region****

The location of the AWS cluster data center.

****AWS Availability Zones****

The AWS data center region.

B

C

****Coordinator AWS Instance Type****

Responsible for parsing statements, planning and scheduling queries. Every Presto installation must have a Presto coordinator alongside one or more Presto workers. For example, Clients like JDBC, ODBC, and

PrestoCli connect to the coordinator to submit statements for execution.

****Cluster Name****

A unique name you create for your cluster. It's used across the Ahana compute plane and cluster endpoints so make it descriptive. Must begin and end with a letter or number. Max characters: 63. Example below.

https://telemetry.tenant.cp.ahana.cloud
 └───┬───┘
 |
 cluster name

****Cluster Provisioning****

A deployment of a Cloud cluster to authenticated users.

****Cluster Scaling****

The capacity of each service on a cluster.

****Custom External ID****

D

****Data Lake IO Caching****

Easy one-click [Ahana solution](https://ahana.io/caching/) used to eliminate the need to read data from data lakes.

E

****EIP Quotas****

Manages instances of your AWS static IPv4 address.

****EC2 instances Quotas****

Manages instance limits of your AWS images, volumes, and snapshots.

F

H

I

****IAM Policy****

Identity & Access Management secures authorized users access to AWS resources.

****IAM Tags****

A custom label option for your AWS resources.

J

[JSON](https://www.json.org/json-en.html) (JavaScript Object Notation) is a data exchange format easy to read for us humans.

K

****Kubernetes Cluster****

A set of nodes that run containerized applications.

L

M

N

****Node****

A unit of a data structure. For example, a linked list or tree data structure.

P

****Presto Cluster****

A distributed environment running on a [Presto cluster](<https://prestodb.io/overview.html>) of machines used to analyze large amounts of data.

****Presto Cluster Credentials****

Your Presto cluster logins used for authorization.

****Presto Coordinator****

The server responsible for parsing statements, planning queries, and managing Presto worker nodes.

****Presto Query Log****

A report of your queries including which ones are running, have been completed, or failed.

Q

R

****Role ARN****

An Amazon Resource Name (ARN) used to identify a specific role.

S

****Scaling****

Configure your Presto cluster by selecting one of the following scaling strategies below.

– Static strategy: # of worker nodes is constant on active state clusters.

– Scale Out only (CPU) strategy: # of worker nodes increases

automatically based on cluster CPU usage. If the average CPU utilization exceeds 75%, the number of worker nodes will increase by the Scale Out Step Size.

T

****Tenant name****

The name of a tenant.

U

V

VPC Pairing

<https://ahana.io/docs/setup-vpc-peering>

W

****Worker****

A Presto worker node is responsible for executing tasks and processing data. Here's how it goes..

``

\-a coordinator-/
|

+---fetches data from workers

+---then returns final data to client

\-worker nodes-/
|

fetch data from

\-connectors-/
|

``

XYZ