



@startuml VPC

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'SPDX-License-Identifier: MIT (For details, see <https://github.com/aws-labs/aws-icons-for-plantuml/blob/master/LICENSE>)

```
!define AWSPuml https://raw.githubusercontent.com/aws-labs/aws-icons-for-plantuml/v14.0/dist
```

```
!include AWSPuml/AWSCommon.puml
```

```
!include AWSPuml/AWSSimplified.puml
```

```
!include AWSPuml/Compute/all.puml
```

```
!include AWSPuml/Groups/all.puml
```

```
!include AWSPuml/NetworkingContentDelivery/all.puml
```

```
!include AWSPuml/Storage/all.puml
```

```
'!include AWSPuml/Common.puml
```

```
!includeurl <aws/common.puml>
```

```
!includeurl <aws/ApplicationServices/AmazonAPIGateway/AmazonAPIGateway.puml>
```

```
!includeurl <aws/Compute/AWSLambda/AWSLambda.puml>
```

```
!includeurl <aws/Compute/AWSLambda/LambdaFunction/LambdaFunction.puml>
```

```
!includeurl <aws/Database/AmazonDynamoDB/AmazonDynamoDB.puml>
```

```
!includeurl <aws/Database/AmazonDynamoDB/table/table.puml>
```

```
!includeurl <aws/General/AWScloud/AWScloud.puml>
```

```
!includeurl <aws/General/client/client.puml>
```

```
!includeurl <aws/General/user/user.puml>
```

```
!includeurl <aws/SDKs/JavaScript/JavaScript.puml>
```

```
!includeurl <aws/Storage/AmazonS3/AmazonS3.puml>
```

```
!includeurl <aws/Storage/AmazonS3/bucket/bucket.puml>
```

```
!include AWSPuml/Storage/SimpleStorageServiceBucketWithObjects.puml
```

```
!include AWSPuml/ApplicationIntegration/SimpleNotificationService.puml
```

```
!include AWSPuml/Containers/ElasticKubernetesService.puml
```

```
!include AWSPuml/Storage/SimpleStorageServiceGlacier.puml
```

```
!include AWSPuml/NetworkingContentDelivery/VPCEndpoints.puml
```

```
!include AWSPuml/ApplicationIntegration/APIGatewayEndpoint.puml
```

```
!include AWSPuml/Database/Aurora.puml
```

```

!include AWSPuml/Database/ElastiCacheElastiCacheforRedis.puml
!include AWSPuml/Groups/GenericPurple.puml
!include AWSPuml/Groups/GenericOrange.puml

hide stereotype
skinparam linetype ortho
'skinparam linetype polyline

AWSCloudGroup(ContentAccount, "Data Content Account") {
  VPCGroup(vpc1) {

    AvailabilityZoneGroup(acc1_az1, "\tAvailability Zone 1"){
      PublicSubnetGroup(acc1_az1_public, "Public subnet") {
        VPCNATGateway(acc1_az1_nat_gateway, "NAT gateway", "") #Transparent
      }
      PrivateSubnetGroup(acc1_az1_private, "Private subnet") {
        ElasticKubernetesService(acc1_az1_eks, "Services ... \nTransformation \nEngine,
Spine etc", "") #Transparent
        Aurora(acc1_az1_rds, "Aurora", "") #Transparent
        VPCEndpoints(acc1_az1_InterfaceEP, "Interface Endpoints \nSNS, SQS ..", "")
#Transparent

        acc1_az1_rds .[hidden]r.> acc1_az1_eks
        acc1_az1_InterfaceEP .[hidden]u.> acc1_az1_eks
      }
      acc1_az1_eks .u.> acc1_az1_nat_gateway
    }

    AvailabilityZoneGroup(acc1_az2, "\tAvailability Zone 2"){
      PublicSubnetGroup(acc1_az2_public, "Public subnet") {
        VPCNATGateway(acc1_az2_nat_gateway, "NAT gateway", "") #Transparent
      }
      PrivateSubnetGroup(acc1_az2_private, "Private subnet"){
        ElasticKubernetesService(acc1_az2_eks, "Services ... \nTransformation \nEngine,
Spine etc", "") #Transparent
        Aurora(acc1_az2_rds, "Aurora", "") #Transparent
        VPCEndpoints(acc1_az2_InterfaceEP, "Interface Endpoints \nSNS, SQS ..", "")
#Transparent

        acc1_az2_rds .[hidden]l.> acc1_az2_eks
        acc1_az2_InterfaceEP .[hidden]u.> acc1_az2_eks
      }
      acc1_az2_eks .u.> acc1_az2_nat_gateway
    }

    VPCInternetGateway(acc1_internet_gateway, "Internet gateway", "")
    acc1_az1_nat_gateway .[hidden]u.> acc1_internet_gateway
    acc1_az2_nat_gateway .[hidden]u.> acc1_internet_gateway

    APIGatewayEndpoint(acc1_application_gateway, "Application GW Endpoint \n S3 & DynamoDB
only", "") #Transparent

    acc1_az1 .[hidden]r.> acc1_application_gateway
    acc1_az2 .[hidden]d.> acc1_application_gateway
    acc1_application_gateway .[hidden]u.> acc1_az2_eks
  }
}

```

```

}
}

AWSCloudGroup(MgmtAccount, "Data Mgmt Account") {
  VPCGroup(vpc2) {

    AvailabilityZoneGroup(acc2_az1, "\tAvailability Zone 1"){
      PublicSubnetGroup(acc2_az1_public, "Public subnet") {
        VPCNATGateway(acc2_az1_nat_gateway, "NAT gateway", "") #Transparent
      }
      PrivateSubnetGroup(acc2_az1_private, "Private subnet") {
        ElasticKubernetesService(acc2_az1_eks, "Services ... \nETL, Spark
\nMaterialisation \nVirtualisation \nTrino, MetaData \nQuery Enginer, etc...", "")
#Transparent
        Aurora(acc2_az1_rds, "Aurora", "") #Transparent
        ElastiCacheElastiCacheforRedis(ac2_az1_redis, "Redis", "")
        VPCEndpoints(acc2_az1_InterfaceEP, "Interface Endpoints \nSNS, SQS ..", "")
#Transparent

        acc2_az1_rds .[hidden]r.> acc2_az1_eks
        acc2_az1_InterfaceEP .[hidden]u.> acc2_az1_eks
        ac2_az1_redis .[hidden]u.> acc2_az1_rds
      }
      acc2_az1_eks .u.> acc2_az1_nat_gateway
    }

    AvailabilityZoneGroup(acc2_az2, "\tAvailability Zone 2"){
      PublicSubnetGroup(acc2_az2_public, "Public subnet") {
        VPCNATGateway(acc2_az2_nat_gateway, "NAT gateway", "") #Transparent
      }
      PrivateSubnetGroup(acc2_az2_private, "Private subnet"){
        ElasticKubernetesService(acc2_az2_eks, "Services ... \nETL, Spark
\nMaterialisation \nVirtualisation \nTrino, MetaData \nQuery Enginer, etc...", "")
#Transparent
        Aurora(acc2_az2_rds, "Aurora", "") #Transparent
        ElastiCacheElastiCacheforRedis(ac2_az2_redis, "Redis", "")
        VPCEndpoints(acc2_az2_InterfaceEP, "Interface Endpoints \nSNS, SQS ..", "")
#Transparent

        acc2_az2_rds .[hidden]l.> acc2_az2_eks
        acc2_az2_InterfaceEP .[hidden]u.> acc2_az2_eks
        ac2_az2_redis .[hidden]u.> acc2_az2_rds
      }
      acc2_az2_eks .u.> acc2_az2_nat_gateway
    }
    VPCInternetGateway(acc2_internet_gateway, "Internet gateway", "")
    acc2_az1_nat_gateway .[hidden]u.> acc2_internet_gateway
    acc2_az2_nat_gateway .[hidden]u.> acc2_internet_gateway

    APIGatewayEndpoint(acc2_application_gateway, "Application GW Endpoint \n S3 &
DynamoDB onluy", "") #Transparent

    acc2_az1 .[hidden]d.> acc2_application_gateway
    acc2_az2 .[hidden]d.> acc2_application_gateway
  }
}

```

```

    acc2_application_gateway .[hidden]d.> acc2_az2_eks
  }
}

ContentAccount .[hidden]r.> MgmtAccount
SimpleStorageServiceBucketWithObjects(S3fileLanding, "S3 File Drop \nMFTS / fsync", "")
#Transparent
SimpleStorageServiceGlacier(S3iceberg, "S3 / Iceberg", "") #Transparent
SimpleNotificationService(sns, "File landed Events", "") #Transparent
SimpleStorageServiceBucketWithObjects(S3Hive, "Hive Meta Store", "") #Transparent

S3fileLanding .[hidden]u.> acc1_az2_InterfaceEP
sns .[hidden]l.> S3fileLanding
S3iceberg .[hidden]l.> sns
S3Hive .[hidden]l.> S3iceberg
@enduml

```