

# aws-2025-iac-streaming-terraform

Work Notes with TF deployment on AWS (Work in Progress - March 2025)

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TF plan / apply

## Terraform plan - apply

Reference to

<https://aws.amazon.com/blogs/containers/deploying-and-scaling-apache-kafka-on-amazon-eks/>

```
#
module.eks.module.eks_managed_node_group["core_node_group"].module.user_data.null_resource.validate_cluster_service_cidr will be created
+ resource "null_resource" "validate_cluster_service_cidr" {
  + id = (known after apply)
}
```

**Plan: 107 to add, 0 to change, 0 to destroy.**

Changes to Outputs:

```
+ configure_kubectl = "aws eks --region eu-west-3 update-kubeconfig --name kafka-on-eks"
+ grafana_secret_name = "kafka-on-eks-grafana"
```

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Saved the plan to: 253B-stream-kafka.tfplan

To perform exactly these actions, run the following command to apply:

```
terraform apply "253B-stream-kafka.tfplan"
```

```
devops100@hetz-root ~/gitlab/devops100net/2025-aws/data-on-eks/streaming/kafka (main)$
```

```
devops100@hetz-root ~/gitlab/devops100net/2025-aws/data-on-eks/streaming/kafka (main)$
terraform apply "253B-stream-kafka.tfplan"
random_password.grafana: Creating...
module.eks_blueprints_addons.random_bytes.this: Creating...
module.eks_blueprints_addons.random_bytes.this: Creation complete after 0s
random_password.grafana: Creation complete after 0s [id=none]
aws_prometheus_workspace.amp[0]: Creating...
aws_iam_policy.grafana[0]: Creating...
aws_secretsmanager_secret.grafana: Creating...
module.eks.aws_iam_role.this[0]: Creating...
module.vpc.aws_vpc.this[0]: Creating...
module.eks.module.eks_managed_node_group["core_node_group"].aws_iam_role.this[0]:
Creating...
module.ebs_csi_driver_irsa.aws_iam_policy.ebs_csi[0]: Creating...
aws_secretsmanager_secret.grafana: Creation complete after 0s
[id=arn:aws:secretsmanager:eu-west-3:453578755218:secret:kafka-on-eks-grafana-6mQuH1]
aws_secretsmanager_secret_version.grafana: Creating...
aws_secretsmanager_secret_version.grafana: Creation complete after 0s
[id=arn:aws:secretsmanager:eu-west-3:453578755218:secret:kafka-on-eks-grafana-
6mQuH1|terraform-20250325200013062400000006]
data.aws_secretsmanager_secret_version.admin_password_version: Reading...
data.aws_secretsmanager_secret_version.admin_password_version: Read complete after 0s
[id=arn:aws:secretsmanager:eu-west-3:453578755218:secret:kafka-on-eks-grafana-
6mQuH1|AWSCURRENT]
module.ebs_csi_driver_irsa.aws_iam_policy.ebs_csi[0]: Creation complete after 1s
[id=arn:aws:iam::453578755218:policy/AmazonEKS_EBS_CSI_Policy-
20250325200012845800000005]
aws_iam_policy.grafana[0]: Creation complete after 1s
[id=arn:aws:iam::453578755218:policy/kafka-on-eks-grafana-20250325200012836000000002]
module.eks.aws_iam_role.this[0]: Creation complete after 1s [id=kafka-on-eks-cluster-
20250325200012836600000003]
module.eks.aws_iam_role_policy_attachment.this["AmazonEKSVPCResourceController"]:
Creating...
module.eks.aws_iam_role_policy_attachment.this["AmazonEKSClusterPolicy"]: Creating...
module.eks.module.eks_managed_node_group["core_node_group"].aws_iam_role.this[0]:
Creation complete after 1s [id=core-node-group-eks-node-group-
20250325200012840200000004]
module.eks.module.kms.data.aws_iam_policy_document.this[0]: Reading...
module.eks.module.kms.data.aws_iam_policy_document.this[0]: Read complete after 0s
[id=1056995596]
module.eks.module.eks_managed_node_group["core_node_group"].aws_iam_role_policy_attach
ment.this["AmazonEC2ContainerRegistryReadOnly"]: Creating...
module.eks.module.eks_managed_node_group["core_node_group"].aws_iam_role_policy_attach
ment.this["AmazonEKS_CNI_Policy"]: Creating...
```

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role\_policy\_attachment.this["AmazonEKSWorkerNodePolicy"]: Creating...

module.eks.module.kms.aws\_kms\_key.this[0]: Creating...

aws\_prometheus\_workspace.amp[0]: Creation complete after 1s [id=ws-f3ae6f1e-a922-4c0a-beb3-5a9bd5a1ff61]

module.eks.aws\_iam\_role\_policy\_attachment.this["AmazonEKSClusterPolicy"]: Creation complete after 0s [id=kafka-on-eks-cluster-20250325200012836600000003-20250325200013974300000007]

module.eks.aws\_iam\_role\_policy\_attachment.this["AmazonEKSVPCResourceController"]: Creation complete after 0s [id=kafka-on-eks-cluster-20250325200012836600000003-20250325200014034000000009]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role\_policy\_attachment.this["AmazonEC2ContainerRegistryReadOnly"]: Creation complete after 0s [id=core-node-group-eks-node-group-20250325200012840200000004-20250325200014023300000008]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role\_policy\_attachment.this["AmazonEKS\_CNI\_Policy"]: Creation complete after 0s [id=core-node-group-eks-node-group-20250325200012840200000004-2025032520001404770000000a]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role\_policy\_attachment.this["AmazonEKSWorkerNodePolicy"]: Creation complete after 0s [id=core-node-group-eks-node-group-20250325200012840200000004-2025032520001417830000000b]

module.vpc.aws\_vpc.this[0]: Still creating... [10s elapsed]

module.eks.module.kms.aws\_kms\_key.this[0]: Still creating... [10s elapsed]

module.vpc.aws\_vpc.this[0]: Creation complete after 12s [id=vpc-044d1e66a849070b5]

module.vpc.aws\_vpc\_ipv4\_cidr\_block\_association.this[0]: Creating...

module.vpc.aws\_default\_route\_table.default[0]: Creating...

module.vpc.aws\_default\_security\_group.this[0]: Creating...

module.eks.aws\_security\_group.cluster[0]: Creating...

module.eks.aws\_security\_group.node[0]: Creating...

module.vpc.aws\_default\_network\_acl.this[0]: Creating...

module.vpc.aws\_default\_route\_table.default[0]: Creation complete after 0s [id=rtb-0ef1e0d83248674ed]

module.vpc.aws\_default\_network\_acl.this[0]: Creation complete after 1s [id=acl-07f610decdbdee98db]

module.vpc.aws\_default\_security\_group.this[0]: Creation complete after 1s [id=sg-0f262257ddf023998]

module.eks.aws\_security\_group.cluster[0]: Creation complete after 1s [id=sg-0cf42abaa5950af55]

module.eks.aws\_security\_group.node[0]: Creation complete after 1s [id=sg-0260828b2b9e7332d]

module.eks.aws\_security\_group\_rule.node["ingress\_self\_all"]: Creating...

module.eks.aws\_security\_group\_rule.node["egress\_all"]: Creating...

module.eks.aws\_security\_group\_rule.node["ingress\_nodes\_ephemeral"]: Creating...

module.eks.aws\_security\_group\_rule.node["ingress\_self\_coredns\_tcp"]: Creating...

module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_kubelet"]: Creating...

module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_4443\_webhook"]: Creating...  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_6443\_webhook"]: Creating...  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_443"]: Creating...  
module.eks.aws\_security\_group\_rule.node["ingress\_self\_all"]: Creation complete after 1s [id=sgrule-3040764290]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_to\_node\_all\_traffic"]: Creating...  
module.eks.aws\_security\_group\_rule.node["egress\_all"]: Creation complete after 1s [id=sgrule-617896639]  
module.eks.aws\_security\_group\_rule.node["ingress\_self\_coredns\_udp"]: Creating...  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_6443\_webhook"]: Creation complete after 2s [id=sgrule-3071882580]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_9443\_webhook"]: Creating...  
module.eks.aws\_security\_group\_rule.node["ingress\_nodes\_ephemeral"]: Creation complete after 3s [id=sgrule-3784472253]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_8443\_webhook"]: Creating...  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_kubelet"]: Creation complete after 3s [id=sgrule-3744730541]  
module.eks.aws\_security\_group\_rule.cluster["ingress\_nodes\_443"]: Creating...  
module.eks.aws\_security\_group\_rule.node["ingress\_self\_coredns\_tcp"]: Creation complete after 4s [id=sgrule-3505406625]  
module.eks.aws\_security\_group\_rule.cluster["ingress\_nodes\_ephemeral\_ports\_tcp"]: Creating...  
module.eks.aws\_security\_group\_rule.cluster["ingress\_nodes\_443"]: Creation complete after 1s [id=sgrule-1564992646]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_4443\_webhook"]: Creation complete after 4s [id=sgrule-2119914178]  
module.eks.aws\_security\_group\_rule.cluster["ingress\_nodes\_ephemeral\_ports\_tcp"]: Creation complete after 0s [id=sgrule-729290184]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_443"]: Creation complete after 5s [id=sgrule-4097031589]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_to\_node\_all\_traffic"]: Creation complete after 4s [id=sgrule-1128474055]  
module.eks.aws\_security\_group\_rule.node["ingress\_self\_coredns\_udp"]: Creation complete after 5s [id=sgrule-1957683534]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_9443\_webhook"]: Creation complete after 4s [id=sgrule-3236182718]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_8443\_webhook"]: Creation complete after 4s [id=sgrule-2755987829]  
module.eks.module.kms.aws\_kms\_key.this[0]: Still creating... [20s elapsed]  
module.eks.module.kms.aws\_kms\_key.this[0]: Creation complete after 20s [id=a84c690e-ad88-4fdc-8e72-3c369e8ec94f]  
module.eks.module.kms.aws\_kms\_alias.this["cluster"]: Creating...  
module.eks.aws\_iam\_policy.cluster\_encryption[0]: Creating...  
module.eks.module.kms.aws\_kms\_alias.this["cluster"]: Creation complete after 0s [id=alias/eks/kafka-on-eks]

module.vpc.aws\_vpc\_ipv4\_cidr\_block\_association.this[0]: Still creating... [10s elapsed]  
module.eks.aws\_iam\_policy.cluster\_encryption[0]: Creation complete after 1s  
[id=arn:aws:iam::453578755218:policy/kafka-on-eks-cluster-ClusterEncryption2025032520003404830000000e]  
module.eks.aws\_iam\_role\_policy\_attachment.cluster\_encryption[0]: Creating...  
module.vpc.aws\_vpc\_ipv4\_cidr\_block\_association.this[0]: Creation complete after 10s [id=vpc-cidr-assoc-01e97be317bd768d7]  
module.vpc.aws\_internet\_gateway.this[0]: Creating...  
module.vpc.aws\_route\_table.public[0]: Creating...  
module.vpc.aws\_subnet.private[1]: Creating...  
module.vpc.aws\_subnet.public[0]: Creating...  
module.vpc.aws\_route\_table.private[0]: Creating...  
module.vpc.aws\_subnet.private[3]: Creating...  
module.vpc.aws\_subnet.private[0]: Creating...  
module.vpc.aws\_subnet.public[1]: Creating...  
module.vpc.aws\_subnet.private[2]: Creating...  
module.eks.aws\_iam\_role\_policy\_attachment.cluster\_encryption[0]: Creation complete after 0s  
[id=kafka-on-eks-cluster-202503252000128366000000003-2025032520003478000000000f]  
module.vpc.aws\_internet\_gateway.this[0]: Creation complete after 0s [id=igw-073a22a97a4a4828c]  
module.vpc.aws\_eip.nat[0]: Creating...  
module.vpc.aws\_route\_table.public[0]: Creation complete after 0s [id=rtb-09b11f536c68af9da]  
module.vpc.aws\_route.public\_internet\_gateway[0]: Creating...  
module.vpc.aws\_route\_table.private[0]: Creation complete after 0s [id=rtb-05191b3b4aa6f8c1c]  
module.vpc.aws\_subnet.public[0]: Creation complete after 0s [id=subnet-0e71cc4c12b0a19be]  
module.vpc.aws\_subnet.private[1]: Creation complete after 0s [id=subnet-078fea5f462eccca2]  
module.vpc.aws\_subnet.private[0]: Creation complete after 0s [id=subnet-00f0ecadfffa640fe]  
module.vpc.aws\_subnet.private[3]: Creation complete after 0s [id=subnet-03e720ac4459834f3]  
module.vpc.aws\_route.public\_internet\_gateway[0]: Creation complete after 1s [id=r-rtb-09b11f536c68af9da1080289494]  
module.vpc.aws\_eip.nat[0]: Creation complete after 1s [id=eipalloc-039d732babe576454]  
module.vpc.aws\_subnet.private[2]: Creation complete after 2s [id=subnet-080a989bbc3042197]  
module.vpc.aws\_route\_table\_association.private[0]: Creating...  
module.vpc.aws\_route\_table\_association.private[1]: Creating...  
module.vpc.aws\_route\_table\_association.private[2]: Creating...  
module.vpc.aws\_route\_table\_association.private[3]: Creating...  
module.eks.aws\_eks\_cluster.this[0]: Creating...  
module.vpc.aws\_route\_table\_association.private[3]: Creation complete after 0s [id=rtbassoc-0a8c3e0855d438545]  
module.vpc.aws\_route\_table\_association.private[1]: Creation complete after 0s [id=rtbassoc-07429e5a5719491d7]

module.vpc.aws\_route\_table\_association.private[0]: Creation complete after 0s [id=rtbassoc-0bac95d907e642602]

module.vpc.aws\_route\_table\_association.private[2]: Creation complete after 0s [id=rtbassoc-0f0afc88796bb4757]

module.vpc.aws\_subnet.public[1]: Creation complete after 3s [id=subnet-0db2499f3f31bbf5c]

module.vpc.aws\_route\_table\_association.public[1]: Creating...

module.vpc.aws\_route\_table\_association.public[0]: Creating...

module.vpc.aws\_nat\_gateway.this[0]: Creating...

module.vpc.aws\_route\_table\_association.public[1]: Creation complete after 0s [id=rtbassoc-009eef1a7a8d53118]

module.vpc.aws\_route\_table\_association.public[0]: Creation complete after 0s [id=rtbassoc-0c20e03083cb5efa4]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [10s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [10s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [20s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [20s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [30s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [30s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [40s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [40s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [50s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [50s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [1m0s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [1m0s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [1m10s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [1m10s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [1m20s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [1m20s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [1m30s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [1m30s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [1m40s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [1m40s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [1m50s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [1m50s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [2m0s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [2m0s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [2m10s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Still creating... [2m10s elapsed]

module.vpc.aws\_nat\_gateway.this[0]: Creation complete after 2m14s [id=nat-0684dffa076df384a]

module.vpc.aws\_route.private\_nat\_gateway[0]: Creating...

module.vpc.aws\_route.private\_nat\_gateway[0]: Creation complete after 1s [id=r-rtb-05191b3b4aa6f8c1c1080289494]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [2m20s elapsed]

module.eks.aws\_eks\_cluster.this[0]: Still creating... [2m30s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [2m40s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [2m50s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [3m0s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [3m10s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [3m20s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [3m30s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [3m40s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [3m50s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [4m0s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [4m10s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [4m20s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [4m30s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [4m40s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [4m50s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [5m0s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [5m10s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [5m20s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [5m30s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [5m40s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [5m50s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [6m0s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [6m10s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [6m20s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [6m30s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [6m40s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [6m50s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [7m0s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Still creating... [7m10s elapsed]  
module.eks.aws\_eks\_cluster.this[0]: Creation complete after 7m12s [id=kafka-on-eks]  
module.eks.data.tls\_certificate.this[0]: Reading...  
module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["GithubRepo"]: Creating...  
module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["karpenter.sh/discovery"]: Creating...  
module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["Blueprint"]: Creating...  
module.eks.aws\_eks\_access\_entry.this["cluster\_creator"]: Creating...  
module.eks.data.tls\_certificate.this[0]: Read complete after 0s  
[id=0563bd16277ca9e04f46d1ebcff7321aa45e500c]  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["spot\_interupt"]:  
Creating...  
module.eks.time\_sleep.this[0]: Creating...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["health\_event"]:  
Creating...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["instance\_state\_change"]  
: Creating...

module.eks\_blueprints\_addons.aws\_cloudformation\_stack.usage\_telemetry[0]: Creating...

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["instance\_rebalance"]: Creating...

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["health\_event"]: Creation complete after 0s [id=Karpenter-HealthEvent-20250325200749012700000014]

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["instance\_state\_change"] : Creation complete after 0s [id=Karpenter-InstanceStateChange-20250325200749013400000015]

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["spot\_interrupt"]: Creation complete after 0s [id=Karpenter-SpotInterrupt-20250325200748986100000013]

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["instance\_rebalance"]: Creation complete after 0s [id=Karpenter-InstanceRebalance-20250325200749101500000017]

module.eks\_blueprints\_addons.aws\_iam\_role.karpenter[0]: Creating...

module.eks.aws\_iam\_openid\_connect\_provider.oidc\_provider[0]: Creating...

module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue.this[0]: Creating...

module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["Blueprint"]: Creation complete after 0s [id=sg-06158ca938b005da0,Blueprint]

module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["karpenter.sh/discovery"]: Creation complete after 0s [id=sg-06158ca938b005da0,karpenter.sh/discovery]

module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["GithubRepo"]: Creation complete after 0s [id=sg-06158ca938b005da0,GithubRepo]

module.eks.aws\_eks\_access\_entry.this["cluster\_creator"]: Creation complete after 1s [id=kafka-on-eks:arn:aws:iam::453578755218:user/iac-user-1]

module.eks.aws\_eks\_access\_policy\_association.this["cluster\_creator\_admin"]: Creating...

module.eks.aws\_iam\_openid\_connect\_provider.oidc\_provider[0]: Creation complete after 1s [id=arn:aws:iam::453578755218:oidc-provider/oidc.eks.eu-west-3.amazonaws.com/id/BC11079A38C72B82F85C259F17093E21]

module.ebs\_csi\_driver\_irsa.data.aws\_iam\_policy\_document.this[0]: Reading...

module.amp\_ingest\_irsa[0].data.aws\_iam\_policy\_document.assume[0]: Reading...

module.eks\_blueprints\_addons.time\_sleep.this: Creating...

module.ebs\_csi\_driver\_irsa.data.aws\_iam\_policy\_document.this[0]: Read complete after 0s [id=225566436]

module.amp\_ingest\_irsa[0].data.aws\_iam\_policy\_document.assume[0]: Read complete after 0s [id=3412265906]

module.eks\_blueprints\_addons.module.metrics\_server.helm\_release.this[0]: Creating...

module.ebs\_csi\_driver\_irsa.aws\_iam\_role.this[0]: Creating...

module.amp\_ingest\_irsa[0].aws\_iam\_role.this[0]: Creating...

module.eks.aws\_eks\_access\_policy\_association.this["cluster\_creator\_admin"]: Creation complete after 0s [id=kafka-on-eks#arn:aws:iam::453578755218:user/iac-user-1#arn:aws:eks::aws:cluster-access-policy/AmazonEKSClusterAdminPolicy]

module.eks\_blueprints\_addons.aws\_iam\_role.karpenter[0]: Creation complete after 1s [id=karpenter-kafka-on-eks]

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.additional["AmazonSSMManagedInstanceCore"]: Creating...



module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEKSWorkerNodePolicy"]: Creating...

module.eks\_blueprints\_addons.aws\_iam\_instance\_profile.karpenter[0]: Creating...

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.additional["AmazonSSMManagedInstanceCore"]: Creation complete after 1s [id=karpenter-kafka-on-eks-2025032520075049990000001a]

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEKSWorkerNodePolicy"]: Creation complete after 1s [id=karpenter-kafka-on-eks-2025032520075050680000001b]

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEKS\_CNI\_Policy"]: Creating...

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEC2ContainerRegistryReadOnly"]: Creating...

module.ebs\_csi\_driver\_irsa.aws\_iam\_role.this[0]: Creation complete after 1s [id=kafka-on-eks-ebs-csi-driver-20250325200749997000000018]

module.ebs\_csi\_driver\_irsa.aws\_iam\_role\_policy\_attachment.ebs\_csi[0]: Creating...

module.amp\_ingest\_irsa[0].aws\_iam\_role.this[0]: Creation complete after 1s [id=kafka-on-eks-amp-ingest-20250325200749997300000019]

module.amp\_ingest\_irsa[0].aws\_iam\_role\_policy\_attachment.additional["amp\_policy"]: Creating...

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEKS\_CNI\_Policy"]: Creation complete after 0s [id=karpenter-kafka-on-eks-2025032520075086930000001c]

module.ebs\_csi\_driver\_irsa.aws\_iam\_role\_policy\_attachment.ebs\_csi[0]: Creation complete after 0s [id=kafka-on-eks-ebs-csi-driver-20250325200749997000000018-2025032520075089990000001d]

module.amp\_ingest\_irsa[0].aws\_iam\_role\_policy\_attachment.additional["amp\_policy"]: Creation complete after 0s [id=kafka-on-eks-amp-ingest-20250325200749997300000019-2025032520075096750000001f]

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEC2ContainerRegistryReadOnly"]: Creation complete after 0s [id=karpenter-kafka-on-eks-2025032520075092150000001e]

module.eks\_blueprints\_addons.module.metrics\_server.helm\_release.this[0]: Creation complete after 2s [id=metrics-server]

module.eks\_blueprints\_addons.aws\_iam\_instance\_profile.karpenter[0]: Creation complete after 7s [id=karpenter-kafka-on-eks]

module.eks.time\_sleep.this[0]: Still creating... [10s elapsed]

module.eks\_blueprints\_addons.aws\_cloudformation\_stack.usage\_telemetry[0]: Still creating... [10s elapsed]

module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue.this[0]: Still creating... [10s elapsed]

module.eks\_blueprints\_addons.aws\_cloudformation\_stack.usage\_telemetry[0]: Creation complete after 10s [id=arn:aws:cloudformation:eu-west-3:453578755218:stack/kafka-on-eks-27c8/d3423460-09b4-11f0-babb-0e0ce23ffb03]

module.eks\_blueprints\_addons.time\_sleep.this: Still creating... [10s elapsed]

module.eks.time\_sleep.this[0]: Still creating... [20s elapsed]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue.this[0]: Still creating... [20s elapsed]  
module.eks\_blueprints\_addons.time\_sleep.this: Still creating... [20s elapsed]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue.this[0]: Creation complete after 26s [id=https://sqs.eu-west-3.amazonaws.com/453578755218/karpenter-kafka-on-eks]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.data.aws\_iam\_policy\_document.this[0]: Reading...  
module.eks\_blueprints\_addons.module.karpenter\_sqs.data.aws\_iam\_policy\_document.this[0]: Read complete after 0s [id=3827299351]  
module.eks\_blueprints\_addons.data.aws\_iam\_policy\_document.karpenter[0]: Reading...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["health\_event"]: Creating...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["spot\_interupt"]: Creating...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["instance\_state\_change"]: Creating...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["instance\_rebalance"]: Creating...  
module.eks\_blueprints\_addons.data.aws\_iam\_policy\_document.karpenter[0]: Read complete after 0s [id=1456613870]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue\_policy.this[0]: Creating...  
module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.this[0]: Reading...  
module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.this[0]: Read complete after 0s [id=1456613870]  
module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_policy.this[0]: Creating...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["health\_event"]: Creation complete after 0s [id=Karpenter-HealthEvent-20250325200749012700000014-KarpenterQueueTarget]  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["spot\_interupt"]: Creation complete after 0s [id=Karpenter-SpotInterrupt-20250325200748986100000013-KarpenterQueueTarget]  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["instance\_rebalance"]: Creation complete after 0s [id=Karpenter-InstanceRebalance-20250325200749101500000017-KarpenterQueueTarget]  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["instance\_state\_change"]: Creation complete after 0s [id=Karpenter-InstanceStateChange-20250325200749013400000015-KarpenterQueueTarget]  
module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_policy.this[0]: Creation complete after 0s [id=arn:aws:iam::453578755218:policy/karpenter-20250325200814697200000020]  
module.eks.time\_sleep.this[0]: Still creating... [30s elapsed]  
module.eks.time\_sleep.this[0]: Creation complete after 30s [id=2025-03-25T20:08:19Z]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].module.user\_data.null\_resource.validate\_cluster\_service\_cidr: Creating...

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].module.user\_data.null\_resource.validate\_cluster\_service\_cidr: Creation complete after 0s [id=1333447053594588899]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_launch\_template.this[0]: Creating...

module.eks\_blueprints\_addons.time\_sleep.this: Still creating... [30s elapsed]

module.eks\_blueprints\_addons.time\_sleep.this: Creation complete after 30s [id=2025-03-25T20:08:19Z]

module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.assume[0]: Reading...

module.eks\_blueprints\_addons.aws\_eks\_addon.this["kube-proxy"]: Creating...

module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Creating...

module.eks\_blueprints\_addons.aws\_eks\_addon.this["vpc-cni"]: Creating...

module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.assume[0]: Read complete after 0s [id=924903485]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Creating...

module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_role.this[0]: Creating...

module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_role.this[0]: Creation complete after 1s [id=karpenter-20250325200820024400000027]

module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_role\_policy\_attachment.this[0]: Creating...

module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_role\_policy\_attachment.this[0]: Creation complete after 0s [id=karpenter-20250325200820024400000027-20250325200820868100000028]

module.eks\_blueprints\_addons.module.karpenter.helm\_release.this[0]: Creating...

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_launch\_template.this[0]: Creation complete after 6s [id=lt-0f2081899cfea9c82]

module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue\_policy.this[0]: Still creating... [10s elapsed]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]: Creating...

module.eks\_blueprints\_addons.module.karpenter.helm\_release.this[0]: Creation complete after 3s [id=karpenter]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["kube-proxy"]: Creation complete after 7s [id=kafka-on-eks:kube-proxy]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [10s elapsed]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [10s elapsed]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["vpc-cni"]: Still creating... [10s elapsed]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["vpc-cni"]: Creation complete after 14s [id=kafka-on-eks:vpc-cni]

module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue\_policy.this[0]: Still creating... [20s elapsed]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [10s elapsed]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue\_policy.this[0]: Creation  
complete after 25s [id=https://sqs.eu-west-3.amazonaws.com/453578755218/karpenter-kafka-  
on-eks]  
module.aws\_auth.kubernetes\_config\_map\_v1\_data.aws\_auth[0]: Creating...  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [20s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [20s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [30s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [30s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [40s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [40s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [50s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [50s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [1m0s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [1m0s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [1m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [1m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[1m10s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [1m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [1m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[1m20s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [1m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [1m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[1m30s elapsed]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [1m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [1m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[1m40s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Still creating... [1m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [1m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[1m50s elapsed]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]  
: Creation complete after 1m47s [id=kafka-on-eks:core-node-group-  
20250325200824686400000029]  
kubernetes\_annotations.gp2\_default: Creating...  
kubernetes\_annotations.gp2\_default: Creation complete after 0s  
[id=apiVersion=storage.k8s.io/v1,kind=StorageClass,name=gp2]  
kubernetes\_storage\_class.ebs\_csi\_encrypted\_gp3\_storage\_class: Creating...  
kubernetes\_storage\_class.ebs\_csi\_encrypted\_gp3\_storage\_class: Creation complete after 1s  
[id=gp3]  
module.eks\_blueprints\_addons.module.kube\_prometheus\_stack.helm\_release.this[0]:  
Creating...  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [2m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [2m0s  
elapsed]  
module.eks\_blueprints\_addons.module.kube\_prometheus\_stack.helm\_release.this[0]: Still  
creating... [10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[2m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [2m10s elapsed]  
module.eks\_blueprints\_addons.module.kube\_prometheus\_stack.helm\_release.this[0]: Still  
creating... [20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [2m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[2m20s elapsed]  
module.eks\_blueprints\_addons.module.kube\_prometheus\_stack.helm\_release.this[0]: Creation  
complete after 28s [id=kube-prometheus-stack]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[2m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [2m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [2m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[2m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[2m50s elapsed]

[illegible]



[illegible]



module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[10m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [10m20s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[10m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [10m30s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[10m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [10m40s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[10m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [10m50s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[10m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [11m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[11m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [11m10s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[11m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [11m20s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[11m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [11m30s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[11m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [11m40s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[11m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [11m50s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[11m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [12m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[12m0s elapsed]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [12m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [12m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [12m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [12m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [12m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [12m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [12m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [12m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [12m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [12m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [13m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [13m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [13m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [13m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [13m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [13m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [13m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [13m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [13m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [13m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [13m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating... [13m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [14m0s elapsed]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[14m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [14m10s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[14m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [14m20s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[14m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [14m30s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[14m30s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [14m40s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[14m40s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [14m50s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[14m50s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [15m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[15m0s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [15m10s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[15m10s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Still creating... [15m20s  
elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Still creating...  
[15m20s elapsed]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Creation complete  
after 15m26s [id=kafka-on-eks:aws-ebs-csi-driver]  
module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Creation complete after 15m26s  
[id=kafka-on-eks:coredns]  
module.eks\_data\_addons.data.aws\_region.current: Reading...  
module.eks\_data\_addons.data.aws\_partition.current: Reading...  
module.eks\_data\_addons.data.aws\_region.current: Read complete after 0s [id=eu-west-3]  
module.eks\_data\_addons.data.aws\_partition.current: Read complete after 0s [id=aws]  
module.eks\_data\_addons.helm\_release.karpenter\_resources["default"]: Creating...  
module.eks\_data\_addons.helm\_release.strimzi\_kafka\_operator[0]: Creating...  
module.eks\_data\_addons.helm\_release.karpenter\_resources["kafka"]: Creating...

```
|
| Error: Kubernetes cluster unreachable: the server has asked for the client to provide
credentials
```

```
|   with module.eks_data_addons.helm_release.karpenter_resources["default"],
|   on .terraform/modules/eks_data_addons/karpenter-resources.tf line 6, in resource
"helm_release" "karpenter_resources":
|     6: resource "helm_release" "karpenter_resources" {
```

```
|
| Error: Kubernetes cluster unreachable: the server has asked for the client to provide
credentials
```

```
|   with module.eks_data_addons.helm_release.karpenter_resources["kafka"],
|   on .terraform/modules/eks_data_addons/karpenter-resources.tf line 6, in resource
"helm_release" "karpenter_resources":
|     6: resource "helm_release" "karpenter_resources" {
```

```
|
| Error: Kubernetes cluster unreachable: the server has asked for the client to provide
credentials
```

```
|   with module.eks_data_addons.helm_release.strimzi_kafka_operator[0],
|   on .terraform/modules/eks_data_addons/strimzi-kafka-operator.tf line 1, in resource
"helm_release" "strimzi_kafka_operator":
|     1: resource "helm_release" "strimzi_kafka_operator" {
```

```
|
| Error: The ConfigMap "aws-auth" does not exist
```

```
|   with module.aws_auth.kubernetes_config_map_v1_data.aws_auth[0],
|   on .terraform/modules/aws_auth/modules/aws-auth/main.tf line 31, in resource
"kubernetes_config_map_v1_data" "aws_auth":
|    31: resource "kubernetes_config_map_v1_data" "aws_auth" {
```

**This happens when K8S objects are created with IaC in the same deployment !!**

```
albert.achterkamp@hetz-root ~/gitlab/devops100net/2025-aws/data-on-eks/streaming/kafka
(main)$ terraform plan -out 253C-stream-kafka.tfplan -var region=$AWS_REGION
```

module.eks\_blueprints\_addons.random\_bytes.this: Refreshing state...  
random\_password.grafana: Refreshing state... [id=none]  
aws\_prometheus\_workspace.amp[0]: Refreshing state... [id=ws-f3ae6f1e-a922-4c0a-beb3-5a9bd5a1ff61]  
data.aws\_partition.current: Reading...  
module.eks\_blueprints\_addons.data.aws\_iam\_policy\_document.karpenter\_assume\_role[0]: Reading...  
aws\_secretsmanager\_secret.grafana: Refreshing state... [id=arn:aws:secretsmanager:eu-west-3:453578755218:secret:kafka-on-eks-grafana-6mQuH1]  
data.aws\_partition.current: Read complete after 0s [id=aws]  
module.eks\_blueprints\_addons.data.aws\_iam\_policy\_document.karpenter\_assume\_role[0]: Read complete after 0s [id=106987850]  
data.aws\_availability\_zones.available: Reading...  
module.eks\_blueprints\_addons.data.aws\_region.current: Reading...  
data.aws\_eks\_cluster\_auth.this: Reading...  
module.eks\_blueprints\_addons.data.aws\_region.current: Read complete after 0s [id=eu-west-3]  
data.aws\_eks\_cluster\_auth.this: Read complete after 0s [id=kafka-on-eks]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].data.aws\_caller\_identity.current: Reading...  
module.amp\_ingest\_irsa[0].data.aws\_partition.current[0]: Reading...  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].data.aws\_partition.current: Reading...  
module.eks.data.aws\_iam\_policy\_document.assume\_role\_policy[0]: Reading...  
module.eks.module.kms.data.aws\_partition.current[0]: Reading...  
module.amp\_ingest\_irsa[0].data.aws\_partition.current[0]: Read complete after 0s [id=aws]  
module.eks\_blueprints\_addons.data.aws\_caller\_identity.current: Reading...  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].data.aws\_partition.current: Read complete after 0s [id=aws]  
module.eks.module.kms.data.aws\_partition.current[0]: Read complete after 0s [id=aws]  
module.eks.data.aws\_iam\_policy\_document.assume\_role\_policy[0]: Read complete after 0s [id=2764486067]  
data.aws\_caller\_identity.current: Reading...  
module.ebs\_csi\_driver\_irsa.data.aws\_region.current: Reading...  
module.vpc.aws\_vpc.this[0]: Refreshing state... [id=vpc-044d1e66a849070b5]  
module.ebs\_csi\_driver\_irsa.data.aws\_region.current: Read complete after 0s [id=eu-west-3]  
module.ebs\_csi\_driver\_irsa.data.aws\_partition.current: Reading...  
module.eks\_blueprints\_addons.data.aws\_partition.current: Reading...  
module.ebs\_csi\_driver\_irsa.data.aws\_partition.current: Read complete after 0s [id=aws]  
module.eks\_blueprints\_addons.data.aws\_partition.current: Read complete after 0s [id=aws]  
module.eks.module.kms.data.aws\_caller\_identity.current[0]: Reading...  
module.amp\_ingest\_irsa[0].data.aws\_caller\_identity.current[0]: Reading...  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].data.aws\_caller\_identity.current: Read complete after 0s [id=453578755218]  
module.eks.data.aws\_partition.current: Reading...

module.eks.data.aws\_partition.current: Read complete after 0s [id=aws]  
module.ebs\_csi\_driver\_irsa.data.aws\_caller\_identity.current: Reading...  
module.eks\_blueprints\_addons.data.aws\_caller\_identity.current: Read complete after 0s [id=453578755218]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].data.aws\_iam\_policy\_document.assume\_role\_policy[0]: Reading...  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].data.aws\_iam\_policy\_document.assume\_role\_policy[0]: Read complete after 0s [id=2560088296]  
module.eks.data.aws\_caller\_identity.current: Reading...  
data.aws\_caller\_identity.current: Read complete after 0s [id=453578755218]  
module.eks.aws\_iam\_role.this[0]: Refreshing state... [id=kafka-on-eks-cluster-202503252000128366000000003]  
module.amp\_ingest\_irsa[0].data.aws\_caller\_identity.current[0]: Read complete after 0s [id=453578755218]  
module.eks.module.kms.data.aws\_caller\_identity.current[0]: Read complete after 0s [id=453578755218]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role.this[0]: Refreshing state... [id=core-node-group-eks-node-group-202503252000128402000000004]  
module.ebs\_csi\_driver\_irsa.data.aws\_iam\_policy\_document.ebs\_csi[0]: Reading...  
module.ebs\_csi\_driver\_irsa.data.aws\_caller\_identity.current: Read complete after 0s [id=453578755218]  
module.eks.data.aws\_caller\_identity.current: Read complete after 0s [id=453578755218]  
module.eks.data.aws\_iam\_session\_context.current: Reading...  
data.aws\_iam\_policy\_document.grafana[0]: Reading...  
module.eks.data.aws\_iam\_session\_context.current: Read complete after 0s [id=arn:aws:iam::453578755218:user/iac-user-1]  
aws\_secretsmanager\_secret\_version.grafana: Refreshing state... [id=arn:aws:secretsmanager:eu-west-3:453578755218:secret:kafka-on-eks-grafana-6mQuH1|terraform-202503252000130624000000006]  
module.ebs\_csi\_driver\_irsa.data.aws\_iam\_policy\_document.ebs\_csi[0]: Read complete after 0s [id=435063099]  
data.aws\_iam\_policy\_document.grafana[0]: Read complete after 0s [id=3865496131]  
module.ebs\_csi\_driver\_irsa.aws\_iam\_policy.ebs\_csi[0]: Refreshing state... [id=arn:aws:iam::453578755218:policy/AmazonEKS\_EBS\_CSI\_Policy-202503252000128458000000005]  
aws\_iam\_policy.grafana[0]: Refreshing state... [id=arn:aws:iam::453578755218:policy/kafka-on-eks-grafana-202503252000128360000000002]  
data.aws\_availability\_zones.available: Read complete after 0s [id=eu-west-3]  
data.aws\_secretsmanager\_secret\_version.admin\_password\_version: Reading...  
data.aws\_ecrpublic\_authorization\_token.token: Reading...  
data.aws\_secretsmanager\_secret\_version.admin\_password\_version: Read complete after 0s [id=arn:aws:secretsmanager:eu-west-3:453578755218:secret:kafka-on-eks-grafana-6mQuH1|AWSCURRENT]  
data.aws\_ecrpublic\_authorization\_token.token: Read complete after 1s [id=us-east-1]

module.eks\_blueprints\_addons.module.karpenter.data.aws\_partition.current[0]: Reading...  
module.eks\_blueprints\_addons.module.karpenter.data.aws\_caller\_identity.current[0]: Reading...  
module.eks\_blueprints\_addons.module.karpenter.data.aws\_partition.current[0]: Read complete after 0s [id=aws]  
module.vpc.aws\_vpc\_ipv4\_cidr\_block\_association.this[0]: Refreshing state... [id=vpc-cidr-assoc-01e97be317bd768d7]  
module.vpc.aws\_default\_security\_group.this[0]: Refreshing state... [id=sg-0f262257ddf023998]  
module.vpc.aws\_default\_route\_table.default[0]: Refreshing state... [id=rtb-0ef1e0d83248674ed]  
module.eks.aws\_security\_group.cluster[0]: Refreshing state... [id=sg-0cf42abaa5950af55]  
module.vpc.aws\_default\_network\_acl.this[0]: Refreshing state... [id=acl-07f610decdbdee98db]  
module.eks\_blueprints\_addons.module.karpenter.data.aws\_caller\_identity.current[0]: Read complete after 0s [id=453578755218]  
module.eks.aws\_security\_group.node[0]: Refreshing state... [id=sg-0260828b2b9e7332d]  
module.vpc.aws\_subnet.private[1]: Refreshing state... [id=subnet-078fea5f462eccca2]  
module.vpc.aws\_subnet.private[2]: Refreshing state... [id=subnet-080a989bbc3042197]  
module.vpc.aws\_subnet.private[3]: Refreshing state... [id=subnet-03e720ac4459834f3]  
module.vpc.aws\_subnet.private[0]: Refreshing state... [id=subnet-00f0ecadfffa640fe]  
module.vpc.aws\_route\_table.public[0]: Refreshing state... [id=rtb-09b11f536c68af9da]  
module.vpc.aws\_internet\_gateway.this[0]: Refreshing state... [id=igw-073a22a97a4a4828c]  
module.vpc.aws\_subnet.public[1]: Refreshing state... [id=subnet-0db2499f3f31bbf5c]  
module.vpc.aws\_subnet.public[0]: Refreshing state... [id=subnet-0e71cc4c12b0a19be]  
module.vpc.aws\_route\_table.private[0]: Refreshing state... [id=rtb-05191b3b4aa6f8c1c]  
module.eks.aws\_iam\_role\_policy\_attachment.this["AmazonEKSClusterPolicy"]: Refreshing state... [id=kafka-on-eks-cluster-202503252000128366000000003-202503252000139743000000007]  
module.eks.aws\_iam\_role\_policy\_attachment.this["AmazonEKSVPCResourceController"]: Refreshing state... [id=kafka-on-eks-cluster-202503252000128366000000003-202503252000140340000000009]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role\_policy\_attachment.this["AmazonEKS\_CNI\_Policy"]: Refreshing state... [id=core-node-group-eks-node-group-202503252000128402000000004-20250325200014047700000000a]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role\_policy\_attachment.this["AmazonEC2ContainerRegistryReadOnly"]: Refreshing state... [id=core-node-group-eks-node-group-202503252000128402000000004-202503252000140233000000008]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_iam\_role\_policy\_attachment.this["AmazonEKSWorkerNodePolicy"]: Refreshing state... [id=core-node-group-eks-node-group-202503252000128402000000004-20250325200014178300000000b]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_443"]: Refreshing state... [id=sgrule-4097031589]  
module.eks.aws\_security\_group\_rule.node["ingress\_self\_all"]: Refreshing state... [id=sgrule-3040764290]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_kubelet"]: Refreshing state... [id=sgrule-3744730541]

module.eks.aws\_security\_group\_rule.node["ingress\_nodes\_ephemeral"]: Refreshing state... [id=sgrule-3784472253]  
module.eks.aws\_security\_group\_rule.node["ingress\_self\_coredns\_udp"]: Refreshing state... [id=sgrule-1957683534]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_8443\_webhook"]: Refreshing state... [id=sgrule-2755987829]  
module.eks.aws\_security\_group\_rule.node["ingress\_self\_coredns\_tcp"]: Refreshing state... [id=sgrule-3505406625]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_4443\_webhook"]: Refreshing state... [id=sgrule-2119914178]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_6443\_webhook"]: Refreshing state... [id=sgrule-3071882580]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_to\_node\_all\_traffic"]: Refreshing state... [id=sgrule-1128474055]  
module.eks.aws\_security\_group\_rule.node["egress\_all"]: Refreshing state... [id=sgrule-617896639]  
module.eks.aws\_security\_group\_rule.node["ingress\_cluster\_9443\_webhook"]: Refreshing state... [id=sgrule-3236182718]  
module.vpc.aws\_eip.nat[0]: Refreshing state... [id=eipalloc-039d732babe576454]  
module.vpc.aws\_route.public\_internet\_gateway[0]: Refreshing state... [id=r-rtb-09b11f536c68af9da1080289494]  
module.eks.aws\_security\_group\_rule.cluster["ingress\_nodes\_443"]: Refreshing state... [id=sgrule-1564992646]  
module.eks.aws\_security\_group\_rule.cluster["ingress\_nodes\_ephemeral\_ports\_tcp"]: Refreshing state... [id=sgrule-729290184]  
module.vpc.aws\_route\_table\_association.private[1]: Refreshing state... [id=rtbassoc-07429e5a5719491d7]  
module.vpc.aws\_route\_table\_association.private[0]: Refreshing state... [id=rtbassoc-0bac95d907e642602]  
module.vpc.aws\_route\_table\_association.private[3]: Refreshing state... [id=rtbassoc-0a8c3e0855d438545]  
module.vpc.aws\_route\_table\_association.private[2]: Refreshing state... [id=rtbassoc-0f0afc88796bb4757]  
module.vpc.aws\_route\_table\_association.public[0]: Refreshing state... [id=rtbassoc-0c20e03083cb5efa4]  
module.vpc.aws\_route\_table\_association.public[1]: Refreshing state... [id=rtbassoc-009eef1a7a8d53118]  
module.eks.module.kms.data.aws\_iam\_policy\_document.this[0]: Reading...  
module.eks.module.kms.data.aws\_iam\_policy\_document.this[0]: Read complete after 0s [id=1056995596]  
module.eks.module.kms.aws\_kms\_key.this[0]: Refreshing state... [id=a84c690e-ad88-4fdc-8e72-3c369e8ec94f]  
module.vpc.aws\_nat\_gateway.this[0]: Refreshing state... [id=nat-0684dffa076df384a]  
module.vpc.aws\_route.private\_nat\_gateway[0]: Refreshing state... [id=r-rtb-



05191b3b4aa6f8c1c1080289494]

module.eks.module.kms.aws\_kms\_alias.this["cluster"]: Refreshing state... [id=alias/eks/kafka-on-eks]

module.eks.aws\_iam\_policy.cluster\_encryption[0]: Refreshing state... [id=arn:aws:iam::453578755218:policy/kafka-on-eks-cluster-ClusterEncryption2025032520003404830000000e]

module.eks.aws\_eks\_cluster.this[0]: Refreshing state... [id=kafka-on-eks]

module.eks.aws\_eks\_access\_entry.this["cluster\_creator"]: Refreshing state... [id=kafka-on-eks:arn:aws:iam::453578755218:user/iac-user-1]

module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["karpenter.sh/discovery"]: Refreshing state... [id=sg-06158ca938b005da0,karpenter.sh/discovery]

module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["GithubRepo"]: Refreshing state... [id=sg-06158ca938b005da0,GithubRepo]

module.eks.aws\_ec2\_tag.cluster\_primary\_security\_group["Blueprint"]: Refreshing state... [id=sg-06158ca938b005da0,Blueprint]

module.eks.time\_sleep.this[0]: Refreshing state... [id=2025-03-25T20:08:19Z]

module.eks.aws\_iam\_role\_policy\_attachment.cluster\_encryption[0]: Refreshing state... [id=kafka-on-eks-cluster-202503252000128366000000003-20250325200034780000000000f]

module.eks\_blueprints\_addons.aws\_cloudformation\_stack.usage\_telemetry[0]: Refreshing state... [id=arn:aws:cloudformation:eu-west-3:453578755218:stack/kafka-on-eks-27c8/d3423460-09b4-11f0-babb-0e0ce23ffb03]

module.eks.data.tls\_certificate.this[0]: Reading...

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["spot\_interrupt"]: Refreshing state... [id=Karpenter-SpotInterrupt-20250325200748986100000013]

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["instance\_state\_change"]: Refreshing state... [id=Karpenter-InstanceStateChange-20250325200749013400000015]

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["instance\_rebalance"]: Refreshing state... [id=Karpenter-InstanceRebalance-20250325200749101500000017]

module.eks.data.tls\_certificate.this[0]: Read complete after 0s [id=0563bd16277ca9e04f46d1ebcff7321aa45e500c]

module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_rule.karpenter["health\_event"]: Refreshing state... [id=Karpenter-HealthEvent-20250325200749012700000014]

module.eks\_blueprints\_addons.aws\_iam\_role.karpenter[0]: Refreshing state... [id=karpenter-kafka-on-eks]

module.eks\_blueprints\_addons.module.metrics\_server.helm\_release.this[0]: Refreshing state... [id=metrics-server]

module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue.this[0]: Refreshing state... [id=https://sqs.eu-west-3.amazonaws.com/453578755218/karpenter-kafka-on-eks]

module.eks.aws\_iam\_openid\_connect\_provider.oidc\_provider[0]: Refreshing state... [id=arn:aws:iam::453578755218:oidc-provider/oidc.eks.eu-west-3.amazonaws.com/id/BC11079A38C72B82F85C259F17093E21]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].module.user\_data.null\_resource.validate\_cluster\_service\_cidr: Refreshing state... [id=1333447053594588899]

module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_launch\_template.this[0]

]: Refreshing state... [id=lt-0f2081899cfea9c82]  
module.eks.aws\_eks\_access\_policy\_association.this["cluster\_creator\_admin"]: Refreshing state... [id=kafka-on-eks#arn:aws:iam::453578755218:user/iac-user-1#arn:aws:eks::aws:cluster-access-policy/AmazonEKSClusterAdminPolicy]  
module.eks\_blueprints\_addons.time\_sleep.this: Refreshing state... [id=2025-03-25T20:08:19Z]  
module.amp\_ingest\_irsas[0].data.aws\_iam\_policy\_document.assume[0]: Reading...  
module.ebs\_csi\_driver\_irsas.data.aws\_iam\_policy\_document.this[0]: Reading...  
module.amp\_ingest\_irsas[0].data.aws\_iam\_policy\_document.assume[0]: Read complete after 0s [id=3412265906]  
module.ebs\_csi\_driver\_irsas.data.aws\_iam\_policy\_document.this[0]: Read complete after 0s [id=225566436]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.data.aws\_iam\_policy\_document.this[0]: Reading...  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["instance\_rebalance"]: Refreshing state... [id=Karpenter-InstanceRebalance-20250325200749101500000017-KarpenterQueueTarget]  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["instance\_state\_change"]: Refreshing state... [id=Karpenter-InstanceStateChange-20250325200749013400000015-KarpenterQueueTarget]  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["health\_event"]: Refreshing state... [id=Karpenter-HealthEvent-20250325200749012700000014-KarpenterQueueTarget]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.data.aws\_iam\_policy\_document.this[0]: Read complete after 0s [id=3827299351]  
module.eks\_blueprints\_addons.aws\_cloudwatch\_event\_target.karpenter["spot\_interrupt"]: Refreshing state... [id=Karpenter-SpotInterrupt-20250325200748986100000013-KarpenterQueueTarget]  
module.amp\_ingest\_irsas[0].aws\_iam\_role.this[0]: Refreshing state... [id=kafka-on-eks-amp-ingest-20250325200749997300000019]  
module.ebs\_csi\_driver\_irsas.aws\_iam\_role.this[0]: Refreshing state... [id=kafka-on-eks-ebs-csi-driver-20250325200749997000000018]  
module.eks\_blueprints\_addons.module.karpenter\_sqs.aws\_sqs\_queue\_policy.this[0]: Refreshing state... [id=https://sqs.eu-west-3.amazonaws.com/453578755218/karpenter-kafka-on-eks]  
module.eks.module.eks\_managed\_node\_group["core\_node\_group"].aws\_eks\_node\_group.this[0]: Refreshing state... [id=kafka-on-eks:core-node-group-20250325200824686400000029]  
module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.assume[0]: Reading...  
module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.assume[0]: Read complete after 0s [id=924903485]  
module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_role.this[0]: Refreshing state... [id=karpenter-20250325200820024400000027]  
module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.additional["AmazonSSMManagedInstanceCore"]: Refreshing state... [id=karpenter-kafka-on-eks-2025032520075049990000001a]

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEC2ContainerRegistryReadOnly"]: Refreshing state... [id=karpenter-kafka-on-eks-2025032520075092150000001e]

module.eks\_blueprints\_addons.aws\_iam\_instance\_profile.karpenter[0]: Refreshing state... [id=karpenter-kafka-on-eks]

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEKS\_CNI\_Policy"]: Refreshing state... [id=karpenter-kafka-on-eks-2025032520075086930000001c]

module.eks\_blueprints\_addons.aws\_iam\_role\_policy\_attachment.karpenter["AmazonEKSWorkerNodePolicy"]: Refreshing state... [id=karpenter-kafka-on-eks-2025032520075050680000001b]

module.eks\_blueprints\_addons.data.aws\_iam\_policy\_document.karpenter[0]: Reading...

module.eks\_blueprints\_addons.data.aws\_iam\_policy\_document.karpenter[0]: Read complete after 0s [id=1456613870]

kubernetes\_annotations.gp2\_default: Refreshing state... [id=apiVersion=storage.k8s.io/v1,kind=StorageClass,name=gp2]

module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.this[0]: Reading...

module.eks\_blueprints\_addons.module.karpenter.data.aws\_iam\_policy\_document.this[0]: Read complete after 0s [id=1456613870]

module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_policy.this[0]: Refreshing state... [id=arn:aws:iam::453578755218:policy/karpenter-20250325200814697200000020]

kubernetes\_storage\_class.ebs\_csi\_encrypted\_gp3\_storage\_class: Refreshing state... [id=gp3]

module.amp\_ingest\_irsa[0].aws\_iam\_role\_policy\_attachment.additional["amp\_policy"]: Refreshing state... [id=kafka-on-eks-amp-ingest-20250325200749997300000019-2025032520075096750000001f]

module.ebs\_csi\_driver\_irsa.aws\_iam\_role\_policy\_attachment.ebs\_csi[0]: Refreshing state... [id=kafka-on-eks-ebs-csi-driver-20250325200749997000000018-2025032520075089990000001d]

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["vpc-cni"]: Reading...

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["aws-ebs-csi-driver"]: Reading...

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["coredns"]: Reading...

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["kube-proxy"]: Reading...

module.eks\_blueprints\_addons.module.kube\_prometheus\_stack.helm\_release.this[0]: Refreshing state... [id=kube-prometheus-stack]

module.eks\_blueprints\_addons.module.karpenter.helm\_release.this[0]: Refreshing state... [id=karpenter]

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["coredns"]: Read complete after 0s [id=coredns]

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["aws-ebs-csi-driver"]: Read complete after 0s [id=aws-ebs-csi-driver]

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["kube-proxy"]: Read complete after 0s [id=kube-proxy]

module.eks\_blueprints\_addons.module.karpenter.aws\_iam\_role\_policy\_attachment.this[0]: Refreshing state... [id=karpenter-20250325200820024400000027-

20250325200820868100000028]

module.eks\_blueprints\_addons.data.aws\_eks\_addon\_version.this["vpc-cni"]: Read complete after 0s [id=vpc-cni]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["coredns"]: Refreshing state... [id=kafka-on-eks:coredns]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["vpc-cni"]: Refreshing state... [id=kafka-on-eks:vpc-cni]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["kube-proxy"]: Refreshing state... [id=kafka-on-eks:kube-proxy]

module.eks\_blueprints\_addons.aws\_eks\_addon.this["aws-ebs-csi-driver"]: Refreshing state... [id=kafka-on-eks:aws-ebs-csi-driver]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

~ update in-place

<= read (data resources)

Terraform will perform the following actions:

# module.aws\_auth.kubernetes\_config\_map\_v1\_data.aws\_auth[0] will be created

+ resource "kubernetes\_config\_map\_v1\_data" "aws\_auth" {

+ data = {

+ "mapAccounts" = jsonencode([])

+ "mapRoles" = <<-EOT

- "groups":

- "system:bootstrappers"

- "system:nodes"

"rolearn": "arn:aws:iam::453578755218:role/karpenter-kafka-on-eks"

"username": "system:node:{ {EC2PrivateDNSName} }"

EOT

+ "mapUsers" = jsonencode([])

}

+ field\_manager = "Terraform"

+ force = true

+ id = (known after apply)

+ metadata {

+ name = "aws-auth"

+ namespace = "kube-system"

}

}

# module.eks\_data\_addons.data.aws\_partition.current will be read during apply

# (depends on a resource or a module with changes pending)

```
<= data "aws_partition" "current" {
  + dns_suffix      = (known after apply)
  + id              = (known after apply)
  + partition       = (known after apply)
  + reverse_dns_prefix = (known after apply)
}
```

```
# module.eks_data_addons.data.aws_region.current will be read during apply
# (depends on a resource or a module with changes pending)
```

```
<= data "aws_region" "current" {
  + description = (known after apply)
  + endpoint    = (known after apply)
  + id          = (known after apply)
  + name        = (known after apply)
}
```

```
# module.eks_data_addons.helm_release.karpenter_resources["default"] will be created
```

```
+ resource "helm_release" "karpenter_resources" {
  + atomic          = false
  + chart           = ".terraform/modules/eks_data_addons/helm-charts/karpenter-
resources"
  + cleanup_on_fail = false
  + create_namespace = true
  + dependency_update = false
  + disable_crd_hooks = false
  + disable_openapi_validation = false
  + disable_webhooks = false
  + force_update      = false
  + id                = (known after apply)
  + lint              = false
  + manifest          = (known after apply)
  + max_history        = 0
  + metadata          = (known after apply)
  + name              = "default"
  + namespace         = "karpenter-resources"
  + pass_credentials  = false
  + recreate_pods     = false
  + render_subchart_notes = true
  + replace           = false
  + reset_values      = false
  + reuse_values      = false
  + skip_crds         = false
  + status            = "deployed"
  + timeout           = 300
  + values            = [
```

```

+ <<-EOT
  name: default
  clusterName: kafka-on-eks
  ec2NodeClass:
    karpenterRole: karpenter-kafka-on-eks
    amiFamily: Bottlerocket
    amiSelectorTerms:
      - alias: "bottlerocket@latest"
    subnetSelectorTerms:
      tags:
        Name: "kafka-on-eks-private*"
    securityGroupSelectorTerms:
      tags:
        Name: kafka-on-eks-node
    instanceStorePolicy: RAID0
  nodePool:
    labels:
      - type: karpenter
      - NodeGroupType: apps
    requirements:
      - key: "kubernetes.io/arch"
        operator: In
        values: [ "amd64", "arm64" ]
      - key: karpenter.sh/capacity-type
        operator: In
        values: ["spot", "on-demand"]
      - key: "karpenter.k8s.aws/instance-category"
        operator: In
        values: ["c", "m", "r"]
    limits:
      cpu: 1000
    disruption:
      consolidationPolicy: WhenEmptyOrUnderutilized
      consolidateAfter: 30s
      budgets:
        - nodes: 10%
  EOT,
]
+ verify          = false
+ version         = "0.0.2"
+ wait           = true
+ wait_for_jobs   = false

```

```
+ postrender {}  
}
```

```
# module.eks_data_addons.helm_release.karpenter_resources["kafka"] will be created
```

```
+ resource "helm_release" "karpenter_resources" {  
  + atomic          = false  
  + chart           = ".terraform/modules/eks_data_addons/helm-charts/karpenter-  
resources"  
  + cleanup_on_fail = false  
  + create_namespace = true  
  + dependency_update = false  
  + disable_crd_hooks = false  
  + disable_openapi_validation = false  
  + disable_webhooks = false  
  + force_update      = false  
  + id                = (known after apply)  
  + lint              = false  
  + manifest          = (known after apply)  
  + max_history        = 0  
  + metadata          = (known after apply)  
  + name              = "kafka"  
  + namespace         = "karpenter-resources"  
  + pass_credentials  = false  
  + recreate_pods     = false  
  + render_subchart_notes = true  
  + replace           = false  
  + reset_values      = false  
  + reuse_values      = false  
  + skip_crds         = false  
  + status            = "deployed"  
  + timeout           = 300  
  + values            = [  
    + <<-EOT  
      name: kafka  
      clusterName: kafka-on-eks  
      ec2NodeClass:  
        karpenterRole: karpenter-kafka-on-eks  
        amiFamily: Bottlerocket  
        amiSelectorTerms:  
          - alias: "bottlerocket@latest"  
        subnetSelectorTerms:  
          tags:  
            Name: "kafka-on-eks-private*"  
        securityGroupSelectorTerms:
```

```

    tags:
      Name: kafka-on-eks-node
    instanceStorePolicy: RAID0
  nodePool:
    labels:
      - type: karpenter
      - NodeGroupType: kafka
    requirements:
      - key: "kubernetes.io/arch"
        operator: In
        values: [ "arm64" ]
      - key: karpenter.sh/capacity-type
        operator: In
        values: [ "on-demand" ]
      - key: "karpenter.k8s.aws/instance-category"
        operator: In
        values: [ "c", "m", "r" ]
    limits:
      cpu: 1000
    disruption:
      consolidationPolicy: WhenEmptyOrUnderutilized
      consolidateAfter: 30s
      budgets:
        - nodes: 10%
    EOT,
  ]
+ verify = false
+ version = "0.0.2"
+ wait = true
+ wait_for_jobs = false

+ postrender {}
}

```

# module.eks\_data\_addons.helm\_release.strimzi\_kafka\_operator[0] will be created

```

+ resource "helm_release" "strimzi_kafka_operator" {
  + atomic = false
  + chart = "strimzi-kafka-operator"
  + cleanup_on_fail = false
  + create_namespace = true
  + dependency_update = false
  + disable_crd_hooks = false
  + disable_openapi_validation = false
  + disable_webhooks = false
  + force_update = false
}

```



```

+ id                = (known after apply)
+ lint              = false
+ manifest           = (known after apply)
+ max_history        = 0
+ metadata           = (known after apply)
+ name               = "strimzi-operator"
+ namespace          = "strimzi-kafka-operator"
+ pass_credentials   = false
+ recreate_pods      = false
+ render_subchart_notes = true
+ replace            = false
+ repository         = "https://strimzi.io/charts/"
+ reset_values       = false
+ reuse_values       = false
+ skip_crds          = false
+ status             = "deployed"
+ timeout            = 300
+ values             = [
+ <<-EOT
    # Default values for strimzi-kafka-operator.

    # Default replicas for the cluster operator
    replicas: 1

    # If you set `watchNamespaces` to the same value as ``.Release.Namespace` (e.g.
`helm ... --namespace $NAMESPACE`),
    # the chart will fail because duplicate RoleBindings will be attempted to be created in
the same namespace
    watchNamespaces: []
    watchAnyNamespace: true

    defaultImageRegistry: quay.io
    defaultImageRepository: strimzi
    defaultImageTag: 0.43.0

    nodeSelector:
      kubernetes.io/os: linux
      NodeGroupType: core

    resources:
      limits:
        memory: 384Mi
        cpu: 1000m
      requests:
        memory: 384Mi

```

```

        cpu: 200m
    livenessProbe:
        initialDelaySeconds: 10
        periodSeconds: 30
    readinessProbe:
        initialDelaySeconds: 10
        periodSeconds: 30
    EOT,
  ]
+ verify          = false
+ version         = "0.43.0"
+ wait           = true
+ wait_for_jobs   = false

+ postrender {}
}

```

# module.eks\_blueprints\_addons.module.karpenter.helm\_release.this[0] will be updated in-place

```

~ resource "helm_release" "this" {
  id          = "karpenter"
  name        = "karpenter"
  ~ repository_password = (sensitive value)
  # (30 unchanged attributes hidden)

  # (8 unchanged blocks hidden)
}

```

Plan: 4 to add, 1 to change, 0 to destroy.

---



---



---

Saved the plan to: 253C-stream-kafka.tfplan

To perform exactly these actions, run the following command to apply:

```

terraform apply "253C-stream-kafka.tfplan"
albert.achterkamp@hetz-root ~/gitlab/devops100net/2025-aws/data-on-eks/streaming/kafka
(main)$ terraform apply "253C-stream-kafka.tfplan"
module.eks_blueprints_addons.module.karpenter.helm_release.this[0]: Modifying...
[id=karpenter]
module.eks_blueprints_addons.module.karpenter.helm_release.this[0]: Modifications complete
after 5s [id=karpenter]
module.eks_data_addons.data.aws_partition.current: Reading...

```

```
module.eks_data_addons.data.aws_region.current: Reading...
module.eks_data_addons.data.aws_partition.current: Read complete after 0s [id=aws]
module.eks_data_addons.data.aws_region.current: Read complete after 0s [id=eu-west-3]
module.aws_auth.kubernetes_config_map_v1_data.aws_auth[0]: Creating...
module.eks_data_addons.helm_release.karpenter_resources["default"]: Creating...
module.aws_auth.kubernetes_config_map_v1_data.aws_auth[0]: Creation complete after 0s
[id=kube-system/aws-auth]
module.eks_data_addons.helm_release.strimzi_kafka_operator[0]: Creating...
module.eks_data_addons.helm_release.karpenter_resources["kafka"]: Creating...
module.eks_data_addons.helm_release.karpenter_resources["kafka"]: Creation complete after
0s [id=kafka]
module.eks_data_addons.helm_release.karpenter_resources["default"]: Creation complete after
1s [id=default]
module.eks_data_addons.helm_release.strimzi_kafka_operator[0]: Still creating... [10s elapsed]
module.eks_data_addons.helm_release.strimzi_kafka_operator[0]: Still creating... [20s elapsed]
module.eks_data_addons.helm_release.strimzi_kafka_operator[0]: Still creating... [30s elapsed]
module.eks_data_addons.helm_release.strimzi_kafka_operator[0]: Creation complete after 38s
[id=strimzi-operator]
```

Apply complete! Resources: 4 added, 1 changed, 0 destroyed.

Outputs:

```
configure_kubectl = "aws eks --region eu-west-3 update-kubeconfig --name kafka-on-eks"
grafana_secret_name = "kafka-on-eks-grafana"
albert.achterkamp@hetz-root ~/gitlab/devops100net/2025-aws/data-on-eks/streaming/kafka
(main)$
```

TF destroy has a few challenges ( thanks to K8S objects created via IaC in the same run as when the Infrastructure is created)

## Terraform destroy

### Create the objects in AWS

```
515 terraform init
516 terraform plan -out 253A-stream-kafka.tfplan
517 terraform plan -out 253B-stream-kafka.tfplan -var region=$AWS_REGION
518 terraform apply "253B-stream-kafka.tfplan"
519 terraform plan -out 253C-stream-kafka.tfplan -var region=$AWS_REGION
520 terraform apply "253C-stream-kafka.tfplan"
528 terraform plan -out 253D-stream-kafka.tfplan -var region=$AWS_REGION
```

529 terraform apply "253D-stream-kafka.tfplan"

## Delete the objects from AWS

532 terraform plan -destroy -out DES-253E-stream-kafka.tfplan

534 terraform plan -destroy -out DES-253E-stream-kafka.tfplan -var region=\$AWS\_REGION

535 terraform apply "DES-253E-stream-kafka.tfplan"

536 terraform plan -destroy -out DES-253F-stream-kafka.tfplan -var region=\$AWS\_REGION

537\* terraform apply "DES-253F-stream-kafka.tfplan"

538 terraform plan -destroy -out DES-253F-stream-kafka.tfplan

539 terraform plan -destroy -out DES-253G-stream-kafka.tfplan -var region=\$AWS\_REGION

540 terraform apply "DES-253G-stream-kafka.tfplan"

541 terraform apply "DES-253G-stream-kafka.tfplan"

542 terraform plan -destroy -out DES-253H-stream-kafka.tfplan -var region=\$AWS\_REGION

543 terraform apply "DES-253H-stream-kafka.tfplan"

544 terraform state rm module.eks\_data\_addons.helm\_release.strimzi\_kafka\_operator[0]

545 terraform plan -destroy -out DES-253K-stream-kafka.tfplan -var region=\$AWS\_REGION

546 terraform apply "DES-253K-stream-kafka.tfplan"

547 terraform state rm module.eks\_data\_addons.helm\_release.karpenter\_resources["default"]

548 terraform state rm module.eks\_data\_addons.helm\_release.karpenter\_resources

549 terraform plan -destroy -out DES-253L-stream-kafka.tfplan -var region=\$AWS\_REGION

550 terraform apply "DES-253L-stream-kafka.tfplan"

551 terraform plan -destroy -out DES-253M-stream-kafka.tfplan -var region=\$AWS\_REGION

552 terraform apply "DES-253M-stream-kafka.tfplan"

553 terraform state rm module.eks\_blueprints\_addons.module.karpenter.helm\_release.this[0]

554 terraform plan -destroy -out DES-253N-stream-kafka.tfplan -var region=\$AWS\_REGION

555 terraform apply "DES-253N-stream-kafka.tfplan"

556 terraform plan -destroy -out DES-253P-stream-kafka.tfplan -var region=\$AWS\_REGION

557 terraform apply "DES-253P-stream-kafka.tfplan"

558 terraform state rm

module.eks\_blueprints\_addons.module.kube\_prometheus\_stack.helm\_release.this[0]

559 terraform plan -destroy -out DES-253Q-stream-kafka.tfplan -var region=\$AWS\_REGION

560 terraform apply "DES-253Q-stream-kafka.tfplan"

561 terraform plan -destroy -out DES-253A-stream-kafka.tfplan -var region=\$AWS\_REGION

562 terraform apply "DES-253A-stream-kafka.tfplan"

563 terraform state rm kubernetes\_storage\_class.ebs\_csi\_encrypted\_gp3\_storage\_class

564 terraform state ls

565 terraform state list

566 terraform state rm

module.eks\_blueprints\_addons.module.metrics\_server.helm\_release.this[0]

567 terraform plan -destroy -out DES-253B-stream-kafka.tfplan -var region=\$AWS\_REGION

568 terraform apply "DES-253B-stream-kafka.tfplan"

569 terraform state rm kubernetes\_annotations.gp2\_default

570 terraform plan -destroy -out DES-253C-stream-kafka.tfplan -var region=\$AWS\_REGION

571 terraform apply "DES-253C-stream-kafka.tfplan"

```
572 terraform plan -destroy -out DES-253D-stream-kafka.tfplan -var region=$AWS_REGION
```

Just repeat this until there are NO objects left on AWS

See the objects on AWS in the chosen region (here eu-west-3)

EC2 Global View

Region explorer

Global search

Settings

Region explorer

Global search

Updated 13 minutes ago

Global search (54)

Perform a global search to search for specific resources across all Regions for which your account is enabled

Find resources by attribute or tag

Region: eu-west-3

Clear filters

< 1 2 >

⚙

	Name	Resource ID	Resource Type	Region
<input type="radio"/>	-	sg-9010e0e8	Security Group	eu-west-3
<input type="radio"/>	kafka-on-eks-node	sg-0260828b2b9e7332d	Security Group	eu-west-3
<input type="radio"/>	kafka-on-eks-default	sg-0f262257ddf023998	Security Group	eu-west-3
<input type="radio"/>	eks-cluster-sg-kafka-on-eks-1545453606	sg-06158ca938b005da0	Security Group	eu-west-3
<input type="radio"/>	kafka-on-eks-cluster	sg-0cf42abaa5950af55	Security Group	eu-west-3
<input type="radio"/>	kafka-on-eks-private-eu-west-3a	subnet-03e720ac4459834f3	Subnet	eu-west-3
<input type="radio"/>	kafka-on-eks-private-eu-west-3b	subnet-078fea5f462eccc2	Subnet	eu-west-3
<input type="radio"/>	kafka-on-eks-private-eu-west-3a	subnet-00f0ecadffa640fe	Subnet	eu-west-3
<input type="radio"/>	-	subnet-7ef9f305	Subnet	eu-west-3
<input type="radio"/>	-	subnet-2e732c63	Subnet	eu-west-3
<input type="radio"/>	kafka-on-eks-private-eu-west-3c	subnet-080a989bbc3042197	Subnet	eu-west-3
<input type="radio"/>	-	subnet-a237c4ca	Subnet	eu-west-3
<input type="radio"/>	kafka-on-eks-public-eu-west-3b	subnet-0db2499f3f31bbf5c	Subnet	eu-west-3
<input type="radio"/>	kafka-on-eks-public-eu-west-3a	subnet-0e71cc4c12b0a19be	Subnet	eu-west-3
<input type="radio"/>	kafka-on-eks	vpc-044d1e66a849070b5	Vpc	eu-west-3
<input type="radio"/>	-	vpc-01d30769	Vpc	eu-west-3
<input type="radio"/>	kafka-on-eks-eu-west-3a	nat-0684dff076df384a	Nat Gateway	eu-west-3

EXAMPLES ARE FOR EDUCATIONAL PURPOSE ONLY - ALL OBJECTS / DEPLOYMENTS ARE DELETED

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