

aws-2025-iac-streaming-terraform

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

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"
```

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_irsas[0].aws_iam_role_policy_attachment.additional["amp_policy"]: Refreshing state... [id=kafka-on-eks-amp-ingest-20250325200749997300000019-2025032520075096750000001f]

module.ebs_csi_driver_irsas.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

Download CSV

Manage

	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-00f0ecadfffa640fe	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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Revision #6
Created 26 March 2025 09:33:45 by Admin
Updated 26 March 2025 10:12:01 by bookstack