```json
{
    "AWSTemplateFormatVersion": "2010-09-09",
    "Parameters": {
        "VpcId": {
            "Type": "AWS::EC2::VPC::Id",
            "Description": "Enter the vpc ID"
        },
        "subneteks": {
            "Type": "List<AWS::EC2::Subnet::Id>",
            "Description": "Select the VPC under the selected VPC.P"
        },
        "Name": {
            "Type": "String",
            "Description": "Enter the Name"
        },
        "Imageid": {
            "Type": "String",
            "Description": "Enter AMI ID"
        },
        "Owner": {
            "Type": "String",
            "Description": "Enter the Owner"
        },
        "Project": {
            "Type": "String",
            "Description": "Enter the Project"
        },
        "Application": {
            "Type": "String",
            "Description": "Enter the Application"
        },
        "Environment": {
            "Type": "String",
            "Description": "Enter the Environment"
        },
        "SecondaryOwner": {
            "Type": "String",
            "Description": "Enter the SecondaryOwner"
        },
        "SecretManagerName": {
            "Type": "String",
            "Description": "Enter the SecretManager"
        },
        "EKSsgProtocol": {
            "Type": "String",
            "Description": "Enter the EKS security group protocol to
allow"
        },
        "EKSsgFromport": {
            "Type": "Number",
```

```json
            "Description": "Enter the EKS security group fromport to
allow"
        },
        "EKSsgToport": {
            "Type": "Number",
            "Description": "Enter the EKS security group toport to
allow"
        },
        "EKSsgCIDR": {
            "Type": "String",
            "Description": "Enter the EKS security group cidr range to
allow"
        },
        "EKSversion": {
            "Type": "String",
            "Description": "Enter the EKS version"
        },
        "EndpointPublicAccess": {
            "Type": "String",
            "AllowedValues": [
                "true",
                "false"
            ],
            "Default": "false",
            "Description": "Select the cluster to be public"
        },
        "EndpointPrivateAccess": {
            "Type": "String",
            "AllowedValues": [
                "true",
                "false"
            ],
            "Default": "true",
            "Description": "Select the cluster to be private"
        },
        "NGCapacityType": {
            "Type": "String",
            "Description": "Enter the Nodegroup CapacityType"
        },
        "NGMinSize": {
            "Type": "Number",
            "Description": "Enter the min number of nodes in node
group"
        },
        "NGDesiredSize": {
            "Type": "Number",
            "Description": "Enter the desired number of nodes in node
group"
        },
        "NGMaxSize": {
            "Type": "Number",
```

```json
        "Description": "Enter the max number of nodes in node
group"
        },
        "NGInstanceTypes": {
            "Type": "List<String>",
            "Description": "Enter the instance type of node"
        },
        "TemplateVolumeSize": {
            "Type": "Number",
            "Description": "Enter the Volume size"
        },
        "TemplateVolumeType": {
            "Type": "String",
            "Description": "Enter the Volume type"
        },
        "TemplateDeviceName": {
            "Type": "String",
            "Description": "Enter the temple device name"
        },
        "DBsgFromport": {
            "Type": "Number",
            "Description": "Enter the DB security group fromport"
        },
        "DBsgToport": {
            "Type": "Number",
            "Description": "Enter the DB security group toport"
        },
        "DBsgProtocol": {
            "Type": "String",
            "Description": "Enter the DB security group protocol"
        },
        "DBsgCIDR": {
            "Type": "String",
            "Description": "Enter the DB security group cidr range"
        },
        "DBAllocatedStorage": {
            "Type": "Number",
            "Description": "Enter the AllocatedStorage"
        },
        "DBInstanceClass": {
            "Type": "String",
            "Description": "Enter the DB instance class"
        },
        "DBEngine": {
            "Type": "String",
            "Description": "Enter the DB engine"
        },
        "DBEngineVersion": {
            "Type": "String",
            "Description": "Enter the DB engine version"
        },
```

```json
        "DBMasterUsername": {
            "Type": "String",
            "Description": "Enter the DB username"
        },
        "DBSubnetGroupName": {
            "Type": "String",
            "Description": "Enter the Subnetgroup name"
        },
        "DBKmsKeyId": {
            "Type": "String",
            "Description": "Enter the KMS key id"
        },
        "DBBackupRetentionPeriod": {
            "Type": "Number",
            "Description": "Enter the backup retention period"
        }
    },
    "Metadata": {
        "AWS::CloudFormation::Designer": {
            "da3dda13-6525-4ba2-924a-d234f3b30f23": {
                "size": {
                    "width": 60,
                    "height": 60
                },
                "position": {
                    "x": 240,
                    "y": 390
                },
                "z": 1,
                "embeds": []
            },
            "8781427f-b8bf-450c-8599-e5dd1f0a075e": {
                "size": {
                    "width": 60,
                    "height": 60
                },
                "position": {
                    "x": 90,
                    "y": 480
                },
                "z": 1,
                "embeds": []
            },
            "6d973b60-12a0-4f91-a14e-ca9a92e718b3": {
                "size": {
                    "width": 60,
                    "height": 60
                },
                "position": {
                    "x": 60,
                    "y": 330
```

```json
        },
        "z": 1,
        "embeds": []
    },
    "452dd6c1-e667-4127-9b56-1a72f4562630": {
        "size": {
            "width": 60,
            "height": 60
        },
        "position": {
            "x": 240,
            "y": 270
        },
        "z": 1,
        "embeds": []
    },
    "fe730ab5-1a14-4fb8-88fd-ed6345c6a3cb": {
        "size": {
            "width": 60,
            "height": 60
        },
        "position": {
            "x": 240,
            "y": 540
        },
        "z": 1,
        "embeds": []
    },
    "6a984354-180c-4595-addb-4933b96a4bb8": {
        "size": {
            "width": 60,
            "height": 60
        },
        "position": {
            "x": 270,
            "y": 660
        },
        "z": 1,
        "embeds": []
    },
    "544851b7-9add-4bd7-bc60-6f78dfafa3cb": {
        "size": {
            "width": 60,
            "height": 60
        },
        "position": {
            "x": 360,
            "y": 480
        },
        "z": 1,
        "embeds": [],
```

```
            "dependson": [
                "fe730ab5-1a14-4fb8-88fd-ed6345c6a3cb"
            ]
        },
        "0966724c-5ed8-46a9-b6c5-be3a6c575184": {
            "size": {
                "width": 60,
                "height": 60
            },
            "position": {
                "x": 510,
                "y": 480
            },
            "z": 1,
            "embeds": []
        },
        "715d3048-300d-4401-a24a-d3cbd70781db": {
            "size": {
                "width": 60,
                "height": 60
            },
            "position": {
                "x": 690,
                "y": 420
            },
            "z": 1,
            "embeds": []
        },
        "c01ef687-0d66-46e1-9d16-a5fa518b8487": {
            "size": {
                "width": 60,
                "height": 60
            },
            "position": {
                "x": 750,
                "y": 540
            },
            "z": 1,
            "embeds": []
        },
        "12620a76-4479-49f5-802f-62c8787f5206": {
            "size": {
                "width": 60,
                "height": 60
            },
            "position": {
                "x": 510,
                "y": 330
            },
            "z": 1,
            "embeds": []
```

```json
            }
        }
    },
    "Resources": {
        "EKS": {
            "Type": "AWS::EKS::Cluster",
            "Properties": {
                "Name": {
                    "Fn::Join": [
                        "",
                        [
                            {
                                "Ref": "Name"
                            },
                            "-eks"
                        ]
                    ]
                },
                "Version": {
                    "Ref": "EKSversion"
                },
                "RoleArn": {
                    "Fn::GetAtt": [
                        "demo",
                        "Arn"
                    ]
                },
                "ResourcesVpcConfig": {
                    "SecurityGroupIds": [
                        {
                            "Ref": "sgeks"
                        }
                    ],
                    "SubnetIds": {
                        "Ref": "subneteks"
                    },
                    "EndpointPublicAccess": {
                        "Ref": "EndpointPublicAccess"
                    },
                    "EndpointPrivateAccess": {
                        "Ref": "EndpointPrivateAccess"
                    }
                },
                "Tags": [
                    {
                        "Key": "Owner",
                        "Value": {
                            "Ref": "Owner"
                        }
                    },
                    {
```

```json
                        "Key": "Project",
                        "Value": {
                            "Ref": "Project"
                        }
                    },
                    {
                        "Key": "Name",
                        "Value": {
                            "Fn::Join": [
                                "",
                                [
                                    {
                                        "Ref": "Name"
                                    },
                                    "-eks"
                                ]
                            ]
                        }
                    },
                    {
                        "Key": "Application",
                        "Value": {
                            "Ref": "Application"
                        }
                    },
                    {
                        "Key": "Environment",
                        "Value": {
                            "Ref": "Environment"
                        }
                    },
                    {
                        "Key": "SecondaryOwner",
                        "Value": {
                            "Ref": "SecondaryOwner"
                        }
                    }
                ]
            },
            "Metadata": {
                "AWS::CloudFormation::Designer": {
                    "id": "da3dda13-6525-4ba2-924a-d234f3b30f23"
                }
            }
        },
        "demo": {
            "Type": "AWS::IAM::Role",
            "Properties": {
                "RoleName": {
                    "Fn::Join": [
                        "",
```

```json
                                [
                                    {
                                        "Ref": "Name"
                                    },
                                    "-eks-role"
                                ]
                            ]
                        },
                        "AssumeRolePolicyDocument": {
                            "Version": "2012-10-17",
                            "Statement": [
                                {
                                    "Effect": "Allow",
                                    "Principal": {
                                        "Service": [
                                            "ec2.amazonaws.com"
                                        ]
                                    },
                                    "Action": [
                                        "sts:AssumeRole"
                                    ]
                                },
                                {
                                    "Effect": "Allow",
                                    "Principal": {
                                        "Service": [
                                            "eks.amazonaws.com"
                                        ]
                                    },
                                    "Action": [
                                        "sts:AssumeRole"
                                    ]
                                }
                            ]
                        },
                        "ManagedPolicyArns": [

"arn:aws:iam::aws:policy/AmazonSSMManagedInstanceCore"
                        ],
                        "Tags": [
                            {
                                "Key": "Owner",
                                "Value": {
                                    "Ref": "Owner"
                                }
                            },
                            {
                                "Key": "Project",
                                "Value": {
                                    "Ref": "Project"
                                }
```

```json
                },
                {
                    "Key": "Name",
                    "Value": {
                        "Fn::Join": [
                            "",
                            [
                                {
                                    "Ref": "Name"
                                },
                                "-eks-role"
                            ]
                        ]
                    }
                },
                {
                    "Key": "Application",
                    "Value": {
                        "Ref": "Application"
                    }
                },
                {
                    "Key": "Environment",
                    "Value": {
                        "Ref": "Environment"
                    }
                },
                {
                    "Key": "SecondaryOwner",
                    "Value": {
                        "Ref": "SecondaryOwner"
                    }
                }
            ]
        },
        "Metadata": {
            "AWS::CloudFormation::Designer": {
                "id": "8781427f-b8bf-450c-8599-e5dd1f0a075e"
            }
        }
    },
    "policy": {
        "Type": "AWS::IAM::Policy",
        "Properties": {
            "PolicyName": {
                "Fn::Join": [
                    "",
                    [
                        {
                            "Ref": "Name"
                        },
```

```
                                    "-eks-restricted-policy"
                            ]
                        ]
                    },
                    "PolicyDocument": {
                        "Version": "2012-10-17",
                        "Statement": [
                            {
                                "Effect": "Allow",
                                "Action": [
                                    "ec2:DescribeInstances",
                                    "ec2:DescribeSnapshots",

"elasticloadbalancing:DescribeLoadBalancerPolicies",

"elasticloadbalancing:DeleteLoadBalancerListeners",

"elasticloadbalancing:RegisterInstancesWithLoadBalancer",

"elasticloadbalancing:CreateLoadBalancerListeners",

"elasticloadbalancing:CreateLoadBalancer",

"elasticloadbalancing:ModifyTargetGroup",
                                    "route53:AssociateVPCWithHostedZone",
                                    "ec2:DescribeVolumes",
                                    "ec2:DescribeAccountAttributes",
                                    "logs:CreateLogGroup",
                                    "iam:ListAttachedRolePolicies",
                                    "ecr:BatchCheckLayerAvailability",
                                    "ec2:DescribeNetworkInterfaces",
                                    "ec2:DescribeDhcpOptions",

"elasticloadbalancing:ModifyLoadBalancerAttributes",
                                    "ecr:GetDownloadUrlForLayer",
                                    "ec2:DetachVolume",

"elasticloadbalancing:DescribeTargetGroups",
                                    "ec2:DescribeAvailabilityZones",

"elasticloadbalancing:DescribeTargetGroupAttributes",

"elasticloadbalancing:DetachLoadBalancerFromSubnets",
                                    "ec2:DescribeSubnets",

"elasticloadbalancing:DeleteLoadBalancer",

"elasticloadbalancing:CreateLoadBalancerPolicy",
                                    "ecr:BatchGetImage",

"elasticloadbalancing:DeleteTargetGroup",
```

```
        "elasticloadbalancing:SetLoadBalancerPoliciesOfListener",
                            "ecr:GetLifecyclePolicy",
                            "ec2:DeleteRoute",

"autoscaling:DescribeAutoScalingGroups",

"elasticloadbalancing:DeregisterTargets",

"elasticloadbalancing:SetLoadBalancerPoliciesForBackendServer",

"elasticloadbalancing:ConfigureHealthCheck",

"elasticloadbalancing:ModifyTargetGroupAttributes",

"elasticloadbalancing:AttachLoadBalancerToSubnets",
                            "eks:UpdateClusterVersion",
                            "ecr:GetRepositoryPolicy",
                            "elasticloadbalancing:DeleteListener",
                            "ec2:DescribeRouteTables",
                            "ec2:AuthorizeSecurityGroupIngress",
                            "elasticloadbalancing:RegisterTargets",
                            "ec2:CreateTags",
                            "ec2:DetachNetworkInterface",
                            "ecr:DescribeImageScanFindings",
                            "logs:PutLogEvents",
                            "ecr:DescribeRepositories",
                            "ecr:DescribeImages",
                            "ecr:ListTagsForResource",
                            "ec2:ModifyVolume",
                            "ecr:ListImages",
                            "logs:DescribeLogStreams",
                            "ec2:DeleteTags",

"elasticloadbalancing:DescribeLoadBalancerAttributes",
                            "ec2:DescribeTags",

"elasticloadbalancing:CreateTargetGroup",
                            "ec2:DeleteSecurityGroup",
                            "ecr:GetLifecyclePolicyPreview",
                            "ec2:CreateNetworkInterface",
                            "ec2:DescribeInternetGateways",
                            "ec2:DescribeSecurityGroups",
                            "ec2:CreateRoute",

"elasticloadbalancing:DescribeLoadBalancers",
                            "ec2:DeleteVolume",
                            "kms:DescribeKey",
                            "ecr:GetAuthorizationToken",
                            "ec2:AttachNetworkInterface",
                            "elasticloadbalancing:CreateListener",
```

```
        "elasticloadbalancing:ApplySecurityGroupsToLoadBalancer",
                        "ec2:ModifyNetworkInterfaceAttribute",

"elasticloadbalancing:DescribeTargetHealth",
                        "ec2:AttachVolume",
                        "elasticloadbalancing:AddTags",
                        "ec2:CreateVolume",
                        "ec2:UnassignPrivateIpAddresses",
                        "ec2:ModifyInstanceAttribute",
                        "ec2:CreateSnapshot",
                        "logs:CreateLogStream",
                        "ec2:RevokeSecurityGroupIngress",
                        "ec2:DescribeInstanceTypes",
                        "ec2:CreateSecurityGroup",
                        "ec2:DescribeVolumesModifications",
                        "ec2:DescribeInstanceAttribute",

"elasticloadbalancing:DeregisterInstancesFromLoadBalancer",
                        "elasticloadbalancing:ModifyListener",
                        "ec2:DeleteNetworkInterface",
                        "ec2:AssignPrivateIpAddresses",
                        "ec2:DescribeVpcs",
                        "ec2:CreateNetworkInterfacePermission",
                        "autoscaling:UpdateAutoScalingGroup",
                        "ec2:DescribeAddresses",

"elasticloadbalancing:DescribeListeners",
                        "ec2:DescribeLaunchTemplateVersions",
                        "ec2:CreateLaunchTemplateVersion",
                        "ec2:CreateLaunchTemplate",
                        "ec2:DescribeLaunchTemplates",
                        "iam:PassRole",
                        "eks:CreateNodegroup",
                        "eks:DescribeCluster",
                        "eks:JoinNodeGroup"
                    ],
                    "Resource": "*",
                    "Condition": {
                        "StringEquals": {
                            "aws:PrincipalTag/Owner": {
                                "Ref": "Owner"
                            },
                            "aws:PrincipalTag/Project": {
                                "Ref": "Project"
                            },
                            "aws:PrincipalTag/Application": {
                                "Ref": "Application"
                            },
                            "aws:PrincipalTag/Environment": {
                                "Ref": "Environment"
```

```
                                  },
                                  "aws:PrincipalTag/SecondaryOwner":
{
                                      "Ref": "SecondaryOwner"
                                  }
                              }
                          }
                      ]
                  },
                  "Roles": [
                      {
                          "Ref": "demo"
                      }
                  ]
              },
              "Metadata": {
                  "AWS::CloudFormation::Designer": {
                      "id": "6d973b60-12a0-4f91-a14e-ca9a92e718b3"
                  }
              }
          },
          "sgeks": {
              "Type": "AWS::EC2::SecurityGroup",
              "Properties": {
                  "GroupName": {
                      "Fn::Join": [
                          "",
                          [
                              {
                                  "Ref": "Name"
                              },
                              "-eks-sg"
                          ]
                      ]
                  },
                  "Tags": [
                      {
                          "Key": "Owner",
                          "Value": {
                              "Ref": "Owner"
                          }
                      },
                      {
                          "Key": "Project",
                          "Value": {
                              "Ref": "Project"
                          }
                      },
                      {
                          "Key": "Name",
```

```json
                    "Value": {
                        "Fn::Join": [
                            "",
                            [
                                {
                                    "Ref": "Name"
                                },
                                "-eks-sg"
                            ]
                        ]
                    }
                },
                {
                    "Key": "Application",
                    "Value": {
                        "Ref": "Application"
                    }
                },
                {
                    "Key": "Environment",
                    "Value": {
                        "Ref": "Environment"
                    }
                },
                {
                    "Key": "SecondaryOwner",
                    "Value": {
                        "Ref": "SecondaryOwner"
                    }
                }
            ],
            "VpcId": {
                "Ref": "VpcId"
            },
            "GroupDescription": {
                "Fn::Join": [
                    "",
                    [
                        {
                            "Ref": "Name"
                        },
                        "-eks-sg"
                    ]
                ]
            },
            "SecurityGroupIngress": [
                {
                    "IpProtocol": "tcp",
                    "FromPort": 80,
                    "ToPort": 80,
                    "CidrIp": {
```

```json
                "Ref": "EKSsgCIDR"
            }
        },
        {
            "IpProtocol": {
                "Ref": "EKSsgProtocol"
            },
            "FromPort": {
                "Ref": "EKSsgFromport"
            },
            "ToPort": {
                "Ref": "EKSsgToport"
            },
            "CidrIp": {
                "Ref": "EKSsgCIDR"
            }
        },
        {
            "IpProtocol": "tcp",
            "FromPort": 5432,
            "ToPort": 5432,
            "CidrIp": {
                "Ref": "EKSsgCIDR"
            }
        },
        {
            "IpProtocol": "tcp",
            "FromPort": 443,
            "ToPort": 443,
            "CidrIp": {
                "Ref": "EKSsgCIDR"
            }
        },
        {
            "IpProtocol": "tcp",
            "FromPort": 9080,
            "ToPort": 9080,
            "CidrIp": {
                "Ref": "EKSsgCIDR"
            }
        },
        {
            "IpProtocol": "tcp",
            "FromPort": 9090,
            "ToPort": 9090,
            "CidrIp": {
                "Ref": "EKSsgCIDR"
            }
        },
        {
            "IpProtocol": "tcp",
```

```json
                        "FromPort": 4444,
                        "ToPort": 4444,
                        "CidrIp": {
                            "Ref": "EKSsgCIDR"
                        }
                    },
                    {
                        "IpProtocol": "tcp",
                        "FromPort": 9651,
                        "ToPort": 9651,
                        "CidrIp": {
                            "Ref": "EKSsgCIDR"
                        }
                    }
                ],
                "SecurityGroupEgress": [
                    {
                        "IpProtocol": "-1",
                        "FromPort": 0,
                        "ToPort": 0,
                        "CidrIp": "0.0.0.0/0"
                    }
                ]
            },
            "Metadata": {
                "AWS::CloudFormation::Designer": {
                    "id": "452dd6c1-e667-4127-9b56-1a72f4562630"
                }
            }
        },
        "EKSADDON": {
            "Type": "AWS::EKS::Addon",
            "DependsOn": [
                "EKSNG"
            ],
            "Properties": {
                "AddonName": "aws-ebs-csi-driver",
                "AddonVersion": "v1.25.0-eksbuild.1",
                "ClusterName": {
                    "Ref": "EKS"
                },
                "Tags": [
                    {
                        "Key": "Owner",
                        "Value": {
                            "Ref": "Owner"
                        }
                    },
                    {
                        "Key": "Project",
                        "Value": {
```

```json
                              "Ref": "Project"
                    }
                },
                {
                    "Key": "Name",
                    "Value": {
                        "Fn::Join": [
                            "",
                            [
                                {
                                    "Ref": "Name"
                                },
                                "-eks-addon"
                            ]
                        ]
                    }
                },
                {
                    "Key": "Application",
                    "Value": {
                        "Ref": "Application"
                    }
                },
                {
                    "Key": "Environment",
                    "Value": {
                        "Ref": "Environment"
                    }
                },
                {
                    "Key": "SecondaryOwner",
                    "Value": {
                        "Ref": "SecondaryOwner"
                    }
                }
            ]
        },
        "Metadata": {
            "AWS::CloudFormation::Designer": {
                "id": "544851b7-9add-4bd7-bc60-6f78dfafa3cb"
            }
        }
    },
    "EKSNG": {
        "Type": "AWS::EKS::Nodegroup",
        "Properties": {
            "ClusterName": {
                "Ref": "EKS"
            },
            "NodegroupName": {
                "Fn::Join": [
```

```
                    "",
                    [
                        {
                            "Ref": "Name"
                        },
                        "-eks-node-group"
                    ]
                ]
            },
            "NodeRole": {
                "Fn::GetAtt": [
                    "demo",
                    "Arn"
                ]
            },
            "Subnets": {
                "Ref": "subneteks"
            },
            "CapacityType": {
                "Ref": "NGCapacityType"
            },
            "ScalingConfig": {
                "MinSize": {
                    "Ref": "NGMinSize"
                },
                "DesiredSize": {
                    "Ref": "NGDesiredSize"
                },
                "MaxSize": {
                    "Ref": "NGMaxSize"
                }
            },
            "InstanceTypes": {
                "Ref": "NGInstanceTypes"
            },
            "LaunchTemplate": {
                "Id": {
                    "Ref": "launchtemplate"
                },
                "Version": {
                    "Fn::GetAtt": [
                        "launchtemplate",
                        "LatestVersionNumber"
                    ]
                }
            },
            "Tags": {
                "Owner": {
                    "Ref": "Owner"
                },
                "Project": {
```

```
                        "Ref": "Project"
                    },
                    "Name": {
                        "Fn::Join": [
                            "",
                            [
                                {
                                    "Ref": "Name"
                                },
                                "-eks-node-group"
                            ]
                        ]
                    },
                    "Application": {
                        "Ref": "Application"
                    },
                    "Environment": {
                        "Ref": "Environment"
                    },
                    "SecondaryOwner": {
                        "Ref": "SecondaryOwner"
                    }
                }
            },
            "Metadata": {
                "AWS::CloudFormation::Designer": {
                    "id": "fe730ab5-1a14-4fb8-88fd-ed6345c6a3cb"
                }
            }
        },
        "launchtemplate": {
            "Type": "AWS::EC2::LaunchTemplate",
            "Properties": {
                "LaunchTemplateName": {
                    "Fn::Join": [
                        "",
                        [
                            {
                                "Ref": "Name"
                            },
                            "-eks-template"
                        ]
                    ]
                },
                "LaunchTemplateData": {
                    "ImageId": {
                        "Ref": "Imageid"
                    },
                    "BlockDeviceMappings": [
                        {
                            "Ebs": {
```

```json
                                "VolumeSize": {
                                    "Ref": "TemplateVolumeSize"
                                },
                                "VolumeType": {
                                    "Ref": "TemplateVolumeType"
                                },
                                "DeleteOnTermination": true,
                                "Encrypted": true
                            },
                            "DeviceName": {
                                "Ref": "TemplateDeviceName"
                            }
                        }
                    ],
                    "UserData": {
                        "Fn::Base64": {
                            "Fn::Sub": "MIME-Version:
1.0\nContent-Type: multipart/mixed;
boundary=\"//\"\n--//\nContent-Type: text/x-shellscript;
charset=\"us-ascii\"\n#!/bin/bash\nset
-ex\nB64_CLUSTER_CA=LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSURRVENDQWU
yZ0F3SUJBZ0lJUTI1WnQ4cTRTcnN3RFFZSktvWklodmNOQVFFTEJRQXdGZVVEVVUTUJFR0ExVU
UKQXhNNS2EzVmlaWEp1WlhSbGN6QWVGdzB5TkRBME1ETXhNRFV3TkRGYUZ3MHpOREEwTURFe
E1EVTFOREZhTUJVeApFekFSQmdOVkJBVRDbXQxWW1WeWJtVjjBaWE13Z2dFaU1BMEdDU3FH
U0liM0RRRUJBUVVBQTRJQkR3QXdnZ0VLCkFvSUJBUURWd2JpPeFphhVM0bCthMHc3cWNDN3F
XOEpyVDli¡ODhHeUoxNG9sSDdqMnExEY0xjJb0VRQjZlaXBBBa2IKL1VMWWk5WZmU4d3IxNlJoQ1
UyYUR1M2Frd0EzN09SdHB0b3B2UGt4NnVCK0hoZUuhqczg3YXJKTTROWTVwK2R2VAphd3Zla
2NqMGpLbjJnZ2hWOFVmmVGk1M0lpUFBYQVc1ZWNqbjJrd1hFTDAzK2NtUlMxNGhXcmYwWWlu
MXZCTFJUCmhZOG9YbWRVOFFFzbDk0L0FCUTFZd0YrY3B5Sm1nMUhhMeDFsTE1rSmVqN2ZzTTTed
CTlZ5T2wzNTlDZGxyQnBQwTEgKS3llc0IzbEd3dTmyY2djFkckZNd2NOSC8zSzRhQjhwRVV0bm
trdHN3dUllV25TTT1p0d2FzR21BUmUvM2lVakM2MMApPSGGszNG04ak1EUDFhMnpMÛjQ2d3pKd
3Z3Mk9UUQWdNQkFBR2pXEJYTUUwR0ExVWREd0VCL3dRRUF3SUNwREFQCkJnTlZISUk1CQWY4
RUJUQURBQUUgvTUIwR0ExVWRE21FXQkJSS2RXZFYzdHRmOWlOVnlRd1VZMEFFHSk5GT1RUQVY
KQmdOVkhSRUVEakFFNZ2dwcmRXSmxjbTVsZEdWek1BMEdDU3FHU0liM0RRRUJDd1VBQTRJQk
FRQUx4REtCCUWp1aQpCdEN0ZRaUENSRHhvaUx2OTVlK1FNU0p2aFIyeUU0bWlvRFVEd2Z5R
FdhU2REUFhFEl1dHE1RlR3czVVdndjCnp2YTTYzY3dMVzZZtczZIaFFVxVFZCRHNZM3VOZ2lv
dG1XbFVxbHZlUHAwVHVndXVHeUFKSjVlUW9vSUc5YnRPeDRAKNmmJPVStjbHg3UXlpbFJJnL1Z
CN0ZJVURMUTVSaERxcVZUud0tjitCZW5GcklRUUUd2bktDRjvVvbnRrN3haY11dqdQpoQ0tJdk
Nqem56bDE5dDF0MUgyd0FTTm9oano5ZG54ejlYQ3lVcE1XQkdkXVkNOa2UzdnRqQQUpWd054Z
kpUZDJ6ClpWc114cWllUHBvdi8xQURyNmg4QQ0lCRnRTYklVEYlVoVXc1WnZJYnFzbkZIOHBT
c2FrvbOExNVjBCWkh6T1UKWldkCS3BTdFlzQ1czCi0tLS0tRU5EIENFUlRJRkLDQVRFLS0
tLS0K\nAPI_SERVER_URL=https://41714E698A8EC6E3A0EA54A72E8908E5.gr7.ap-s
outheast-2.eks.amazonaws.com\nK8S_CLUSTER_DNS_IP=10.100.0.10\n/etc/eks/
bootstrap.sh eks-stack-eks --kubelet-extra-args '--max-pods=17'
--b64-cluster-ca $B64_CLUSTER_CA --apiserver-endpoint $API_SERVER_URL
--dns-cluster-ip $K8S_CLUSTER_DNS_IP --use-max-pods false\n--//--\n"
                        }
                    },
                    "TagSpecifications": [
                        {
                            "ResourceType": "instance",
```

```json
                            "Tags": [
                                {
                                    "Key": "Owner",
                                    "Value": {
                                        "Ref": "Owner"
                                    }
                                },
                                {
                                    "Key": "Project",
                                    "Value": {
                                        "Ref": "Project"
                                    }
                                },
                                {
                                    "Key": "Name",
                                    "Value": {
                                        "Fn::Join": [
                                            "",
                                            [
                                                {
                                                    "Ref": "Name"
                                                },
                                                "-eks-node"
                                            ]
                                        ]
                                    }
                                },
                                {
                                    "Key": "Application",
                                    "Value": {
                                        "Ref": "Application"
                                    }
                                },
                                {
                                    "Key": "Environment",
                                    "Value": {
                                        "Ref": "Environment"
                                    }
                                },
                                {
                                    "Key": "SecondaryOwner",
                                    "Value": {
                                        "Ref": "SecondaryOwner"
                                    }
                                }
                            ]
                        }
                    ]
                }
            },
            "Metadata": {
```

```
                "AWS::CloudFormation::Designer": {
                    "id": "6a984354-180c-4595-addb-4933b96a4bb8"
                }
            }
        },
        "RDSDBI2QFNJ": {
            "Type": "AWS::RDS::DBInstance",
            "Properties": {
                "DBInstanceIdentifier": {
                    "Fn::Join": [
                        "",
                        [
                            {
                                "Ref": "Name"
                            },
                            "rds"
                        ]
                    ]
                },
                "DBInstanceClass": {
                    "Ref": "DBInstanceClass"
                },
                "AllocatedStorage": {
                    "Ref": "DBAllocatedStorage"
                },
                "Engine": {
                    "Ref": "DBEngine"
                },
                "DBName": watermelondb,
                "EngineVersion": {
                    "Ref": "DBEngineVersion"
                },
                "MasterUsername": {
                    "Ref": "DBMasterUsername"
                },
                "MasterUserPassword": {
                    "Fn::Join": [
                        "",
                        [
                            "{{resolve:secretsmanager:",
                            {
                                "Ref": "SecretManager"
                            },
                            ":SecretString:password}}"
                        ]
                    ]
                },
                "DBSubnetGroupName": {
                    "Ref": "DBSubnetGroupName"
                },
                "DBParameterGroupName": {
```

```json
            "Ref": "DBparametergroup"
        },
        "StorageEncrypted": true,
        "EnableCloudwatchLogsExports": [
            "postgresql"
        ],
        "BackupRetentionPeriod": {
            "Ref": "DBBackupRetentionPeriod"
        },
        "AutoMinorVersionUpgrade": false,
        "VPCSecurityGroups": [
            {
                "Ref": "BDSG"
            }
        ],
        "KmsKeyId": {
            "Ref": "DBKmsKeyId"
        },
        "Tags": [
            {
                "Key": "Owner",
                "Value": {
                    "Ref": "Owner"
                }
            },
            {
                "Key": "Project",
                "Value": {
                    "Ref": "Project"
                }
            },
            {
                "Key": "Name",
                "Value": {
                    "Fn::Join": [
                        "",
                        [
                            {
                                "Ref": "Name"
                            },
                            "-db"
                        ]
                    ]
                }
            },
            {
                "Key": "Application",
                "Value": {
                    "Ref": "Application"
                }
            },
```

```json
                    {
                        "Key": "Environment",
                        "Value": {
                            "Ref": "Environment"
                        }
                    },
                    {
                        "Key": "SecondaryOwner",
                        "Value": {
                            "Ref": "SecondaryOwner"
                        }
                    }
                ]
            },
            "Metadata": {
                "AWS::CloudFormation::Designer": {
                    "id": "0966724c-5ed8-46a9-b6c5-be3a6c575184"
                }
            }
        },
        "BDSG": {
            "Type": "AWS::EC2::SecurityGroup",
            "Properties": {
                "GroupName": {
                    "Fn::Join": [
                        "",
                        [
                            {
                                "Ref": "Name"
                            },
                            "-db-sg"
                        ]
                    ]
                },
                "Tags": [
                    {
                        "Key": "Owner",
                        "Value": {
                            "Ref": "Owner"
                        }
                    },
                    {
                        "Key": "Project",
                        "Value": {
                            "Ref": "Project"
                        }
                    },
                    {
                        "Key": "Name",
                        "Value": {
                            "Fn::Join": [
```

```json
                            "",
                            [
                                {
                                    "Ref": "Name"
                                },
                                "-db-sg"
                            ]
                        ]
                    }
                },
                {
                    "Key": "Application",
                    "Value": {
                        "Ref": "Application"
                    }
                },
                {
                    "Key": "Environment",
                    "Value": {
                        "Ref": "Environment"
                    }
                },
                {
                    "Key": "SecondaryOwner",
                    "Value": {
                        "Ref": "SecondaryOwner"
                    }
                }
            ],
            "VpcId": {
                "Ref": "VpcId"
            },
            "GroupDescription": {
                "Fn::Join": [
                    "",
                    [
                        {
                            "Ref": "Name"
                        },
                        "-db-sg"
                    ]
                ]
            },
            "SecurityGroupIngress": [
                {
                    "IpProtocol": {
                        "Ref": "DBsgProtocol"
                    },
                    "FromPort": {
                        "Ref": "DBsgFromport"
                    },
```

```
                "ToPort": {
                    "Ref": "DBsgToport"
                },
                "CidrIp": {
                    "Ref": "DBsgCIDR"
                }
            }
        ],
        "SecurityGroupEgress": [
            {
                "IpProtocol": "-1",
                "FromPort": 0,
                "ToPort": 0,
                "CidrIp": "0.0.0.0/0"
            }
        ]
    },
    "Metadata": {
        "AWS::CloudFormation::Designer": {
            "id": "715d3048-300d-4401-a24a-d3cbd70781db"
        }
    }
},
"DBparametergroup": {
    "Type": "AWS::RDS::DBParameterGroup",
    "Properties": {
        "DBParameterGroupName": {
            "Fn::Join": [
                "",
                [
                    {
                        "Ref": "Name"
                    },
                    "-db-pg"
                ]
            ]
        },
        "Tags": [
            {
                "Key": "Owner",
                "Value": {
                    "Ref": "Owner"
                }
            },
            {
                "Key": "Project",
                "Value": {
                    "Ref": "Project"
                }
            },
            {
```

```json
                        "Key": "Name",
                        "Value": {
                            "Fn::Join": [
                                "",
                                [
                                    {
                                        "Ref": "Name"
                                    },
                                    "-db-pg"
                                ]
                            ]
                        }
                    },
                    {
                        "Key": "Application",
                        "Value": {
                            "Ref": "Application"
                        }
                    },
                    {
                        "Key": "Environment",
                        "Value": {
                            "Ref": "Environment"
                        }
                    },
                    {
                        "Key": "SecondaryOwner",
                        "Value": {
                            "Ref": "SecondaryOwner"
                        }
                    }
                ],
                "Family": "postgres14",
                "Description": "db"
            },
            "Metadata": {
                "AWS::CloudFormation::Designer": {
                    "id": "c01ef687-0d66-46e1-9d16-a5fa518b8487"
                }
            }
        },
        "SecretManager": {
            "Type": "AWS::SecretsManager::Secret",
            "Properties": {
                "Name": {
                    "Ref": "SecretManagerName"
                },
                "GenerateSecretString": {
                    "SecretStringTemplate": "{\"username\":
\"{{username}}\"}",
                    "GenerateStringKey": "password",
```

```json
                        "PasswordLength": 10,"ExcludeCharacters": "/@\" "
                    },
                    "Tags": [
                        {
                            "Key": "Owner",
                            "Value": {
                                "Ref": "Owner"
                            }
                        },
                        {
                            "Key": "Project",
                            "Value": {
                                "Ref": "Project"
                            }
                        },
                        {
                            "Key": "Name",
                            "Value": {
                                "Fn::Join": [
                                    "",
                                    [
                                        {
                                            "Ref": "Name"
                                        },
                                        "-db-sm"
                                    ]
                                ]
                            }
                        },
                        {
                            "Key": "Application",
                            "Value": {
                                "Ref": "Application"
                            }
                        },
                        {
                            "Key": "Environment",
                            "Value": {
                                "Ref": "Environment"
                            }
                        },
                        {
                            "Key": "SecondaryOwner",
                            "Value": {
                                "Ref": "SecondaryOwner"
                            }
                        }
                    ]
                },
                "Metadata": {
                    "AWS::CloudFormation::Designer": {
```

```
                    "id": "12620a76-4479-49f5-802f-62c8787f5206"
                }
            }
        }
    }
}
```