SETTING UP ECS TASK DEFINITION

Configure task and container definitions

A task definition specifies which containers are included in your task and how they interact with each other. You can also specify data volumes for your containers to use. Learn more

Task Definition Name* mythicalmysfitsservice

Requires Compatibilities* FARGATE

Task Role MythicalMysfitsCoreStack-...

Optional IAM role that tasks can use to make API requests to authorized AWS services. Create an Amazon Elastic Container Service Task Role in the IAM Console

Network Mode awsvpc

If you choose <default>, ECS will start your container using Docker's default networking mode, which is Bridge on Linux and NAT on Windows. <default> is the only supported mode on Windows.

Task execution IAM role

This role is required by tasks to pull container images and publish container logs to Amazon CloudWatch on your behalf. If you do not have the ecsTaskExecutionRole already, we can create one for you.

Task execution role MythicalMysfitsCoreStack-EcsSer...

Task size

The task size allows you to specify a fixed size for your task. Task size is required for tasks using the Fargate launch type and is optional for the EC2 launch type. Container level memory settings are optional when task size is set. Task size is not supported for Windows containers.

Task memory (GB) 0.5GB

The valid memory range for 0.25 vCPU is: 0.5GB - 2GB.

Task CPU (vCPU) 0.25 vCPU

The valid CPU for 0.5 GB memory is: 0.25 vCPU

Task memory maximum allocation for container memory reservation

0 — 512 shared of 512 MiB

Task CPU maximum allocation for containers

0 — 256 shared of 256 CPU units

Add container

Standard

Container name* MythicalMysfits-Service

Image* 959910143348.dkr.ecr.us-east-1.amazonaws.com/mythicalmysfits/service

Private repository authentication*

Memory Limits (MiB) Soft limit 128

Add Hard limit

Define hard and/or soft memory limits in MiB for your container. Hard and soft limits correspond to the `memory` and `memoryReservation` parameters, respectively, in task definitions.

ECS recommends 300-500 MiB as a starting point for web applications.

Port mappings Container port: 8080 Protocol: tcp

Add port mapping

Log configuration Auto-configure CloudWatch Logs

Log driver: awslogs

Log options

Key		Value
awslogs-group	Value	mythicalmysfits-
awslogs-region	Value	us-east-1
awslogs-stream	Value	awslogs-mythic
Add key	Value	Add value

Container Definitions

Add container

Container Name	Image	Hard/Soft me...	CP...	GP...	Inferenc...	Essential
MythicalMysfits-Service	959910143348...	--/--				true

Create new Task Definition | Create new revision | Actions | Last updated on November 17, 2020 3:09:48 PM (0m ago)

Status: ACTIVE INACTIVE

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Task Definition	Latest revision status
mythicalmysfitsservice	ACTIVE

task-definition.json

iac > IaC-Mythical-Misfits > task-definition.json > ...

```
{
  "family": "mythicalmysfitsservice",
  "cpu": "256",
  "memory": "512",
  "networkMode": "awsvpc",
  "requiresCompatibilities": [
    "FARGATE"
  ],
  "executionRoleArn": "arn:aws:iam::959910143348:role/MythicalMysfitsCoreStack-EcsServi
  "taskRoleArn": "arn:aws:iam::959910143348:role/MythicalMysfitsCoreStack-ECSTaskRole-
  "containerDefinitions": [
    {
      "name": "MythicalMysfits-Service",
      "image": "959910143348.dkr.ecr.us-east-1.amazonaws.com/mythicalmysfits/service",
      "portMappings": [
        {
          "containerPort": 8080,
          "protocol": "http"
        }
      ],
      "logConfiguration": {
        "logDriver": "awslogs",
        "options": {
          "awslogs-group": "mythicalmysfits-logs",
          "awslogs-region": "us-east-1",
          "awslogs-stream-prefix": "awslogs-mythicalmysfits-service"
        }
      },
      "essential": true
    }
  ]
}
```

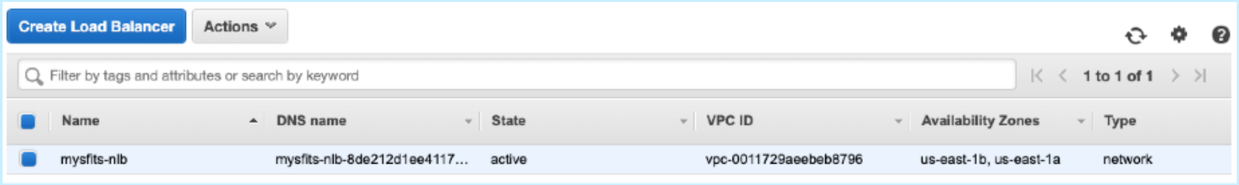
CREATING NETWORK LOAD BALANCER

nlb-output.json

```
iac > IaC-Mythical-Misfits > {} nlb-output.json
LoadBalancers:
- AvailabilityZones:
  - LoadBalancerAddresses: []
    SubnetId: subnet-0df7402f5212e7f0c
    ZoneName: us-east-1a
  - LoadBalancerAddresses: []
    SubnetId: subnet-0a7416f0deff8ec25
    ZoneName: us-east-1b
  CanonicalHostedZoneId: Z26RNL4JYFTOTI
  CreatedTime: '2020-11-17T13:04:08.115000+00:00'
  DNSName: mysfits-nlb-8de212d1ee411720.elb.us-east-1.amazonaws.com
  IpAddressType: ipv4
  LoadBalancerArn: arn:aws:elasticloadbalancing:us-east-1:9599101433
  LoadBalancerName: mysfits-nlb
  Scheme: internet-facing
  State:
    Code: provisioning
  Type: network
  VpcId: vpc-0011729aeebeb8796
```

TERMINAL PROBLEMS 1 OUTPUT DEBUG CONSOLE 1: bash

```
MacBook-Air-nikita:IaC-Mythical-Misfits nkdchck$ aws elbv2 create-load-balancer --name mysfits-nlb --scheme internet-facing --type network --subnets subnet-0df7402f5212e7f0c subnet-0a7416f0deff8ec25 > ./nlb-output.json
```



target-group-output.json

```
iac > IaC-Mythical-Misfits > {} target-group-output.json
TargetGroups:
- HealthCheckEnabled: true
  HealthCheckIntervalSeconds: 10
  HealthCheckPath: /
  HealthCheckPort: traffic-port
  HealthCheckProtocol: HTTP
  HealthCheckTimeoutSeconds: 6
  HealthyThresholdCount: 3
  Matcher:
    HttpCode: 200-399
  Port: 8080
  Protocol: TCP
  TargetGroupArn: arn:aws:elasticloadbalancing:
  TargetGroupName: MythicalMysfits-TargetGroup
  TargetType: ip
  UnhealthyThresholdCount: 3
  VpcId: vpc-0011729aeebeb8796
```

TERMINAL PROBLEMS 1 OUTPUT DEBUG CONSOLE 1: bash

```
loadbalancing:us-east-1:959910143348:targetgroup/MythicalMysfits/9fb78d2592321f60,Type=forward --load-balancer-arn
MacBook-Air-nikita:IaC-Mythical-Misfits nkdchck$ aws elbv2 create-target-group --name MythicalMysfits-TargetGroup --port 8080 --protocol TCP --target-type ip --vpc-id vpc-0011729aeebeb8796 --health-check-interval-seconds 10 --health-check-path / --health-check-protocol HTTP --healthy-threshold-count 3 --unhealthy-threshold-count 3 > ./target-group-output.json
```