

# AWS

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12:05 AM

## Serverless with AWS Lambda and Amazon API Gateway

Pros	Cons
Free tier	Only for new accounts
It's useful to know	Requires AWS ecosystem knowledge
No server management	I don't think this is how he wants us to do it
Pay-per-use	Pay-per-use
scaling	

## ECS/R and Fargate or App Runner

### Benefits:

Portability, consistency across environments, fine-grained control over resource a  
Fargate is definitely too much

### Here's how to host an Express.js API on AWS App Runner:

- **Prepare your Express.js API:**
  - Ensure your Express.js application is configured to listen on a specific port, typically defined by an environment variable (e.g., `process.env.PORT || 3000`).
  - Create a `package.json` file with all necessary dependencies and a `start` script to launch your application (e.g., `"start": "node server.js"`).
- **Containerize your application (Optional but recommended):**
  - Create a `Dockerfile` in your project's root directory to define how your application should be built into a Docker image. This typically involves specifying a base image (e.g., Node.js), copying your code, installing dependencies, and exposing the port your application listens on.
  - Push your Docker image to a container registry like Amazon Elastic Container Registry (ECR).
- **Create an AWS App Runner Service:**
  - Navigate to the AWS App Runner console



#### Create an AWS App Runner service:

- Navigate to the AWS App Runner console.
- Choose to create a new App Runner service.
- **Source:** Select either "Source code repository" (e.g., GitHub or Bitbucket) or "Container registry" (e.g., ECR).
  - If using source code, connect to your repository and specify the branch and build/start commands.
  - If using a container image, provide the ECR image URI.
- **Service Settings:** Configure the service name, instance size (CPU and memory), and autoscaling settings based on your application's requirements.
- **Networking:** Configure a VPC connector if your application needs to access resources within a Virtual Private Cloud (VPC), like an Amazon RDS database.
- **Review and Deploy:** Review your settings and deploy the service. App Runner will automatically build (if using source code) and deploy your Express.js API.
- **Access your API:**
  - Once deployed, App Runner provides a public endpoint (URL) for your service, through which your Express.js API can be accessed.

#### Benefits of using App Runner for Express.js:

- **Simplified Deployment:** App Runner handles infrastructure provisioning, scaling, and load balancing.

