

Fix npm install error

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i have a project and i have delegated its node module folder now when i d...

i am using vs code terminal

in backend how do i check which db is connect?

first i want to check that is that mongo is installed or not?

C:\Users\abdul>mongo --version 'mongo' is not recognized as an internal...

C:\Users\abdul>mongosh --version 'mongosh' is not recognized as an...

i have downloaded the folder what next

there where 2 option msi and zip which to download

while creating db in mongodb in mongocompass is what to enter in...

"scripts": { "dev": "next dev", "build": "next build", "start": "next start",...}

"scripts": { "build": "nest build", "format": "prettier --write \"src/**/*.{ts,js}...\""},

I have created my project on Node.js in which I have connected a DB wit...

i have full project frontend and backend and i want to deploy on the aws...

i have my architectural diagram of my project This architecture diagram...

what my approach is that first i have to create own vpc and subnet then...

Frontend: Instead of hosting on EC2, you can host on **S3 + ...

which option is better all over frontend on ec2 or cloudfont +s3?

i have told you about my project now guide me about deployment what ...

Because you want full professional architecture: ### **Step 5: Create...

so what re the procedure for creating and attching with whom nat

as there is 4 subnet 2 in different zone and other 2 in different so will the...

i have created 2 nat gateway now do i have edit something in it like rule...

Target: NAT Gateway (select the NAT in the **same AZ** as the priva...

but i have only 2 route table one public and other private

There was an error editing routes. All changes have been reverted. Detai...

 **PHASE 4 — Backend Deployment (Nest.js)**...

curl -fsSL https://deb.nodesource.com/setup_20.x | sudo -E bash - what i...



what is pm2 and why we use and where we have to use it?



i have a project and i have delegated its node module folder
now when i do this do npm install it is showing me this error
PS D:\Office\Task-Management-System> npm install
npm : File C:\Program Files\nodejs\npm.ps1 cannot be loaded
because running scripts is disabled on this system. For more
information, see about_Execution_Policies at
<https://go.microsoft.com/fwlink/?LinkID=135170>.
At line:1 char:1
+ npm install
+ ~~~
+ CategoryInfo : SecurityError: () [],
PSSecurityExc
eption
+ FullyQualifiedErrorId : UnauthorizedAccess





i am using vs code terminal



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in backend how do i check which db is connect?





first i want to check that is that mongo is installed or not?





```
C:\Users\abdul>mongo --version  
'mongo' is not recognized as an internal or external  
command,  
operable program or batch file.
```

```
C:\Users\abdul>mongod --version  
db version v8.2.1  
Build Info: {  
    "version": "8.2.1",  
    "gitVersion":  
        "3312bdcf28aa65f5930005e21c2cb130f648b8c3",  
    "modules": [],  
    "allocator": "tcmalloc-gperf",  
    "environment": {  
        "distmod": "windows"  
    }  
}
```

```
C:\Users\abdul> why is that one is not showing and  
other is showing version
```





```
C:\Users\abdul>mongosh --version
'mongosh' is not recognized as an internal or external
command,
operable program or batch file.
```





i have downloaded the folder what next





there where 2 option msi and zip which to download





while creating db in mongodb in mongocompass is what to enter in collection name





```
"scripts": {  
  "dev": "next dev",  
  "build": "next build",  
  "start": "next start",  
  "lint": "eslint"  
},
```

how to know from which command i have to start the project





```
"scripts": {
    "build": "nest build",
    "format": "prettier --write \"src/**/*.ts\""
  "test/**/*.ts\"",
    "start": "nest start",
    "start:dev": "nest start --watch",
    "start:debug": "nest start --debug --watch",
    "start:prod": "node dist/main",
    "lint": "eslint \"{src,apps,libs,test}/**/*.ts\" --fix",
    "test": "jest",
    "test:watch": "jest --watch",
    "test:cov": "jest --coverage",
    "test:debug": "node --inspect-brk -r tsconfig-
paths/register -r ts-node/register node_modules/.bin/jest
--runInBand",
    "test:e2e": "jest --config ./test/jest-e2e.json",
    "migration:create": "npx migrate-mongo create",
    "migration:up": "npx migrate-mongo up",
    "migration:down": "npx migrate-mongo down"
}, what about this project
```





I have created my project on Node.js in which I have connected a DB with Mongo. So, if I want to deploy on AWS, which service should I use and what is the difference between DynamoDB and RDS? As far as I know, RDS is a relational database. Then what is the link with DynamoDB of Mongo? If I have like a database connected with my project, database connected with SQL or Postgres, I definitely use RDS. So now, right now, I am using the MongoDB. Will I be using the DynamoDB service of AWS or what?





i have full project frontend and backend and i want to deploy on the aws
and i am using mongodb in my project so guide me which services i use of aws for my deployment of project on aws
my frontend is in next js and backend is in nest js





i have my architectural diagram of my project
This architecture diagram illustrates a secure, scalable, and highly available full-stack application hosted on AWS (Amazon Web Services). It follows the industry-standard "Three-Tier Architecture," separating the presentation, application, and data layers.

Here is a breakdown of what the diagram is showing:

1. The Presentation Layer (Frontend)

This part is hosted outside the core VPC (Virtual Private Cloud) for global performance.

Internet Users: Traffic begins with users accessing the application.

Route 53 DNS: Manages your domain name (e.g., www.myapp.com) and routes traffic to the CloudFront distribution.

CloudFront Distribution: A Content Delivery Network (CDN) that caches your frontend content globally to reduce latency.

S3 Bucket (Frontend React App): Stores the static files (HTML, CSS, JS) of your Next.js/React application.

S3 Bucket (Document Uploads): A separate storage area for user-generated content or media files.

2. The Networking Layer (VPC)

The core of the backend is isolated within a VPC, divided into two zones for security:

Public Subnet: * Contains the Application Load Balancer (ALB), which receives traffic from CloudFront and distributes it to the backend.

Contains the NAT Gateway, which allows instances in



the private subnet to securely access the internet (to download updates or talk to external APIs) without being exposed to incoming internet traffic.

Private Subnet:

This is where your sensitive logic lives. It is not directly accessible from the internet.

3. The Application Layer (Backend)

Located inside the Private Subnet for maximum security:

Auto Scaling Group (ASG): Automatically adds or removes EC2 instances based on traffic demand to ensure the app never crashes.

EC2 Instances: These virtual servers run your Nest.js Backend and use PM2 (a process manager) to keep the application running 24/7.

IAM Role: A security identity that gives your EC2 instances permission to access other AWS services (like Secrets Manager or S3) without needing hardcoded passwords.

4. The Data & Security Layer

ElastiCache for Redis: A fast, in-memory data store used for session management or caching frequent database queries to speed up the app.

AWS Secrets Manager: Securely stores sensitive information like your MongoDB connection strings and API keys.

MongoDB Atlas Cluster: A third-party managed database service.

VPC Peering: A private "tunnel" that connects your AWS VPC directly to the MongoDB Atlas network, ensuring database traffic never travels over the public internet.



Summary of the Traffic Flow

User requests the site via Route 53.

CloudFront serves the React Frontend from an S3 Bucket.

When the frontend needs data, it sends a request to the ALB.

The ALB forwards the request to a Nest.js server on an EC2 instance in the Private Subnet.

The Nest.js server fetches secrets from Secrets Manager, checks the Redis Cache, and queries the MongoDB Atlas database via VPC Peering.

The response travels back through the ALB to the user.





what my approach is that

first i have to create own vpc and subnet then on there i will deploy both frontend and backend on ec2 on that server there will be nginx after that we will connect frontend and backend resolve cors and afterwards autoscaling and load balancing and db will be at mongodb atlas.

is this correct way and is there other need to add this





Frontend: Instead of hosting on EC2, you can host on **S3 + CloudFront**. * Pros:
cheaper, auto-scaling, global CDN, no server management.

if i use this then i will not be using nginx?





which option is better all over frontend on ec2 or
cloudfront +s3?





i have told you about my project
now guide me about deployment
what to create first then what





Because you want full professional architecture: ### **Step 5: Create Custom VPC** Inside AWS VPC service: * `/16` CIDR block recommended `10.0.0.0/16` ### **Step 6: Create Two Subnets** * 2 public subnets (different AZ) * 2 private subnets (different AZ) ### **Step 7..

i have created a vpc 4 subnets 2 public and 2 private , 2 route table one public and one private and one internet gateway and attached to the vpc
now will you tell me why i have attach IGW to the vpc and why there is the need to create nat and add rule in the private route table?





so what re the procedure for creating and attching with whom nat





as there is 4 subnet 2 in different zone and other 2 in different so

will there be need of 2 nat ?

NAT gateway settings

Name - optional

Create a tag with a key of 'Name' and a value that you specify.

NAT Gateway A

The name can be up to 256 characters long.

Availability mode

Info

Choose whether to deploy across all zones in the region or restrict to a single availability zone.

Regional - new

Scales automatically across all regional AZs, simplifying management for multi AZ deployments.

Zonal

Provides granular control within a specific availability zone, adhering to subnet level settings.

VPC

Select a VPC in which to create the regional NAT gateway.

vpc-0ac96cefdafa19b9f1 (TaskManagement(VPC))

Connectivity type

Select a connectivity type for the NAT gateway.

Public

Private

Method of Elastic IP (EIP) allocation

Info

Choose how IP addresses are associated with NAT gateways.

Automatic

AWS automatically manages EIPs and AZ coverage for NAT gateways. This ensures easy scaling-- adding AZs automatically allocates EIPs, simplifying management.

Manual

Manually assigns specific IP addresses for compliance or whitelisting. Note: Requires manual scaling to new AZs



as workloads expand.
and guide me which option to select while creating nat





i have created 2 nat gateway now do i have edit something in it like rules or something else or somewhere else do i have to makes changes?





Target: NAT Gateway (select the NAT in the **same AZ** as the private subnet)

i have create 2 nat gateway
so which nat i select while adding route





but i have only 2 route table one public and other private





There was an error editing routes. All changes have been reverted.

Details

Creating a route

The route identified by 0.0.0.0/0 already exists.

Route 1

Destination

10.0.0.0/16

Target

local

local

Status

Active

Propagated

No

Route Origin

CreateRouteTable

Route 2

Destination

0.0.0.0/0

Target

NAT Gateway

nat-0cbe2db120f69b853

Status

Active

Propagated

No

Route Origin

CreateRoute

now i want to add this route Route 3

Route 3

Destination

0.0.0.0/0



Target

NAT Gateway
nat-0c4971580f5e11ad3

Status

-

Propagated

No

Route Origin

CreateRoute on which error is showing





✓ **PHASE 4 — Backend Deployment (Nest.js)**

===== ### Option 1
(recommended): Elastic Beanstalk Much easier than EC2 manually. ### **Step 8: Create...

now i am on these stages

i have done creating vpc , 4 subnet 2 route table , IGW and nat

Now there is slight difference that is i want to deploy by both frontend and backend on same ec2 instance then i will be connecting through the nginx
so guide me each step how to do this and what can i do to make deployment good





```
curl -fsSL https://deb.nodesource.com/setup_20.x | sudo  
-E bash -
```

what is the purpose of this command

```
sudo apt install -y nodejs
```

while installing nodejs we write this command

but while installing git we put -y in the end sudo apt
install git -y why?

```
sudo npm install -g pm2 same here we haven't put -y  
why and what does -y and -g mean why we use it?
```





what is pm2 and why we use and where we have to use it?

