

การใช้ nodejs เบื้องต้น

- 1.ดาวน์โหลดติดตั้ง node
- 2.node --version
- 3.npm --version
- 4.สร้างโฟลเดอร์โปรเจ็ค
- 5.เปิด VSCode -> Open Folder
- 6. npm init ที่ command prompt

```
C:\Users\mkrobot>node --version  
v20.17.0
```

```
C:\Users\mkrobot>npm --version  
10.7.0
```

```
C:\Users\mkrobot>cd\
```

```
C:\>mkdir node1
```

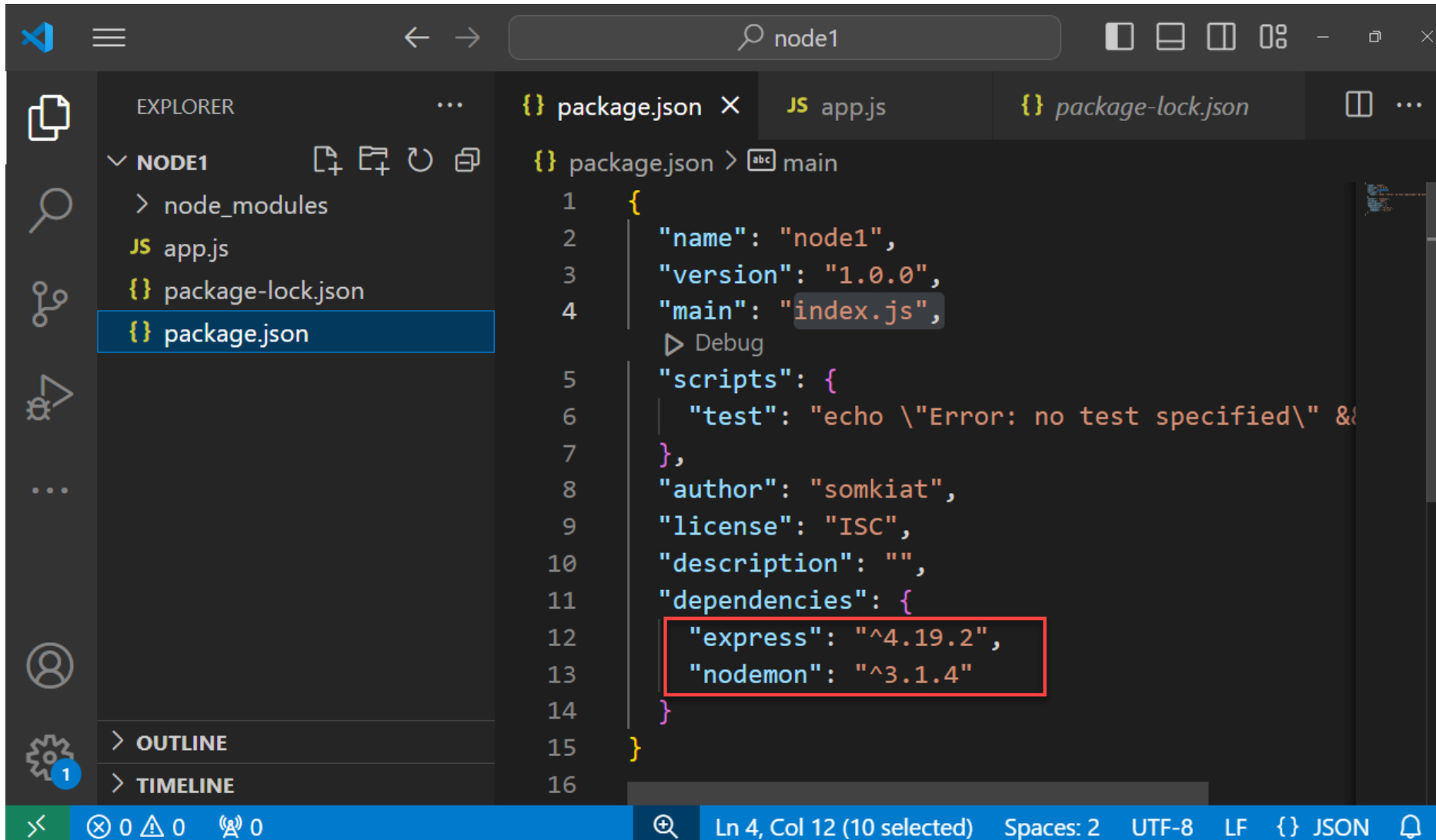
```
C:\>cd node1
```

```
C:\node1>npm init
```

```
C:\node1>npm i express
```

```
C:\node1>npm i nodemon
```

# ไฟล์ package.json

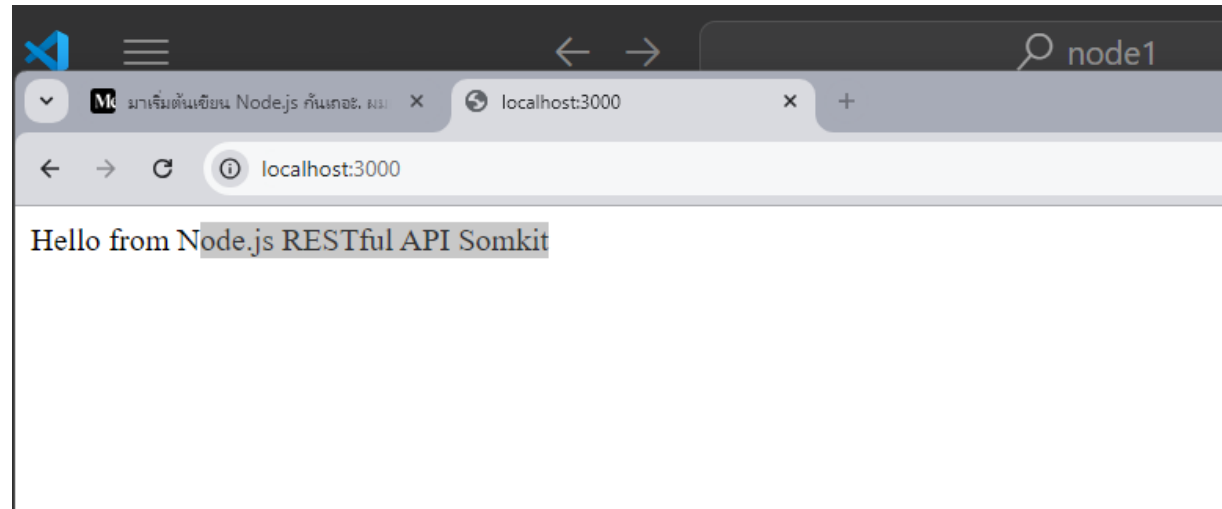


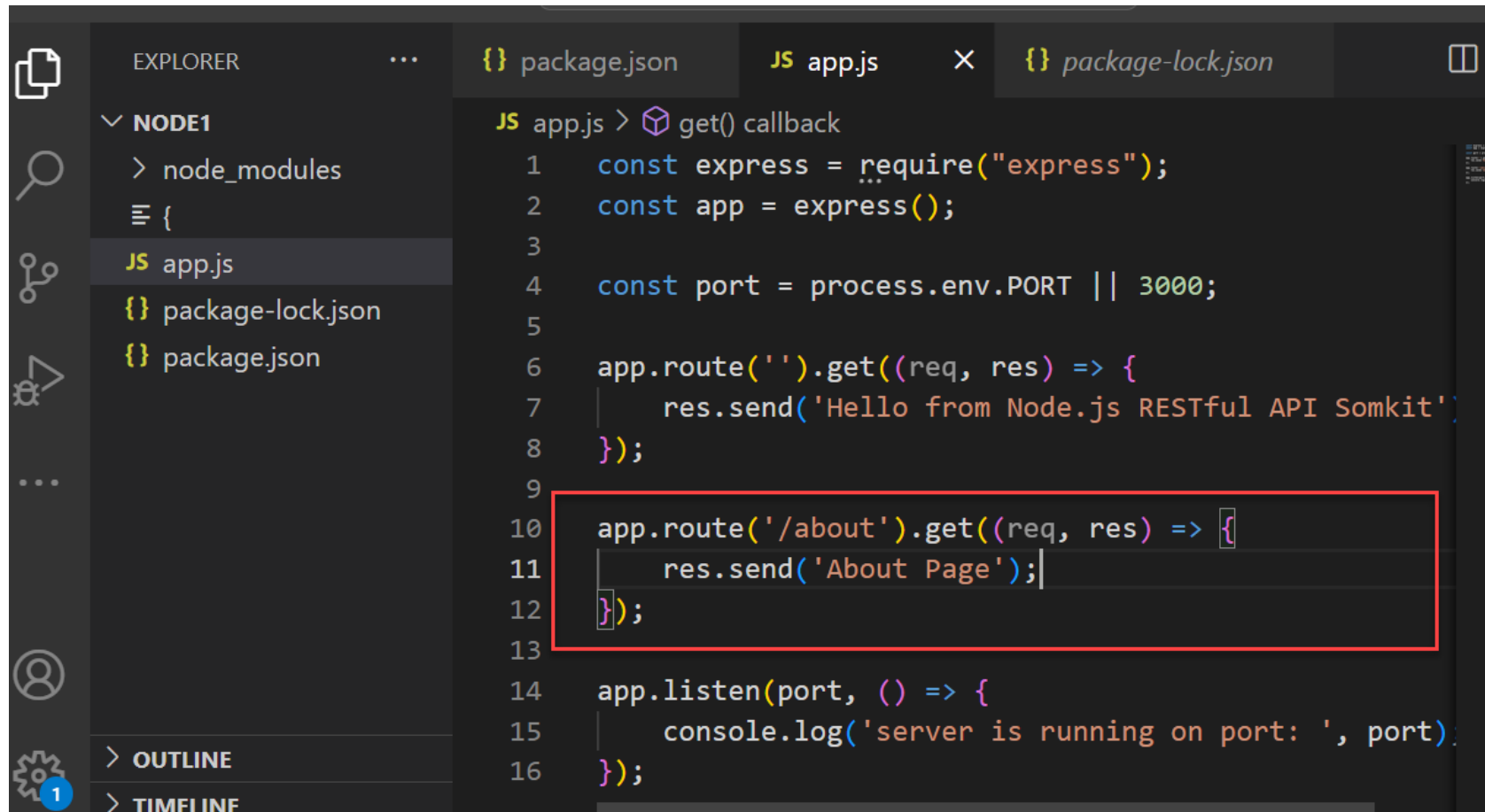
```
{
  "name": "node1",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "author": "somkiat",
  "license": "ISC",
  "description": "",
  "dependencies": {
    "express": "^4.19.2",
    "nodemon": "^3.1.4"
  }
}
```

Ln 4, Col 12 (10 selected) Spaces: 2 UTF-8 LF {} JSON

# การ Run nodejs

```
C:\node1>node app.js  
server is running on port: 3000
```





```
C:\node1>node app.js
server is running on port: 3000
^C
C:\node1>node app.js
server is running on port: 3000
|
```

← → ↻ ⓘ localhost:3000/about

About Page

```
C:\>docker network
```

```
Usage:  docker network COMMAND
```

```
Manage networks
```

```
Commands:
```

connect	Connect a container to a network
create	Create a network
disconnect	Disconnect a container from a network
inspect	Display detailed information on one or more networks
ls	List networks
prune	Remove all unused networks
rm	Remove one or more networks

```
Run 'docker network COMMAND --help' for more information on a command.
```

```
C:\>
```

```
C:\node1>docker network create backend-network
e3859a1c8de9cb9558f2e3a48d9ac617c309570b55afdb2a56a519440675b1fb

C:\node1>docker run --name mysql-server --network backend-network -p 3306:3306 -v d:/mysql-data:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=1234 -d mysql:latest
docker: Error response from daemon: mkdir d:\mysql-data: The system cannot find the path specified.
See 'docker run --help'.

C:\node1>docker run --name mysql-server --network backend-network -p 3306:3306 -v c:/mysql-data:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=1234 -d mysql:latest
b463d6731e7d1232db51fea8cb0ab60d3e7c2ba45496502dd3a92edb4b989b7b

C:\node1>
```

This PC > Local Disk (C:) > Search Local Disk (C:)

Name	Date modified	Type	Size
AMD	7/1/2024 10:09 AM	File folder	
Arduino18	4/27/2024 3:06 PM	File folder	
django	8/22/2024 10:28 AM	File folder	
Drivers	3/5/2024 5:48 PM	File folder	
ESD	8/15/2024 12:40 PM	File folder	
HP Universal Print Driver	2/13/2024 9:02 AM	File folder	
Log Files	2/18/2024 11:58 AM	File folder	
mysql-data	8/22/2024 10:27 AM	File folder	
node1	8/22/2024 10:21 AM	File folder	
OneDriveTemp	4/30/2024 7:46 AM	File folder	
PerfLogs	5/7/2022 12:24 PM	File folder	
Program Files	8/22/2024 9:05 AM	File folder	
Program Files (x86)	8/18/2024 12:22 PM	File folder	



Containers **1**

## Images

## Volumes

## Builds

## Docker Scout

## Extensions

< Containers [Give feedback](#)

Container CPU usage ⓘ

0.51% / 1600% (16 CPUs available)

Container memory usage ⓘ

490.01MB / 7.01GB

[Show charts](#)

Only show running containers

Delete



	Name	Image	Status	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	<a href="#">hello-flask</a> 59b12bb3b792	<a href="#">my-flask</a>	Exited (255)	5000:5000	0%	1 month ago	
<input checked="" type="checkbox"/>	<a href="#">my-nginx</a> d358b4fbf455	<a href="#">nginx</a>	Exited (255)	8080:80	0%	1 month ago	
<input type="checkbox"/> <b>2</b>	<a href="#">mysql-server</a> b463d6731e7d	<a href="#">mysql:latest</a>	Running	<a href="#">3306:3306</a>	0%	5 minutes ago	
<input type="checkbox"/>	> <a href="#">php_mysql</a>		Running (3/3)		0.51%	10 minutes ago	

Selected 1 of 4

## Walkthroughs



Multi-container applications

8 mins



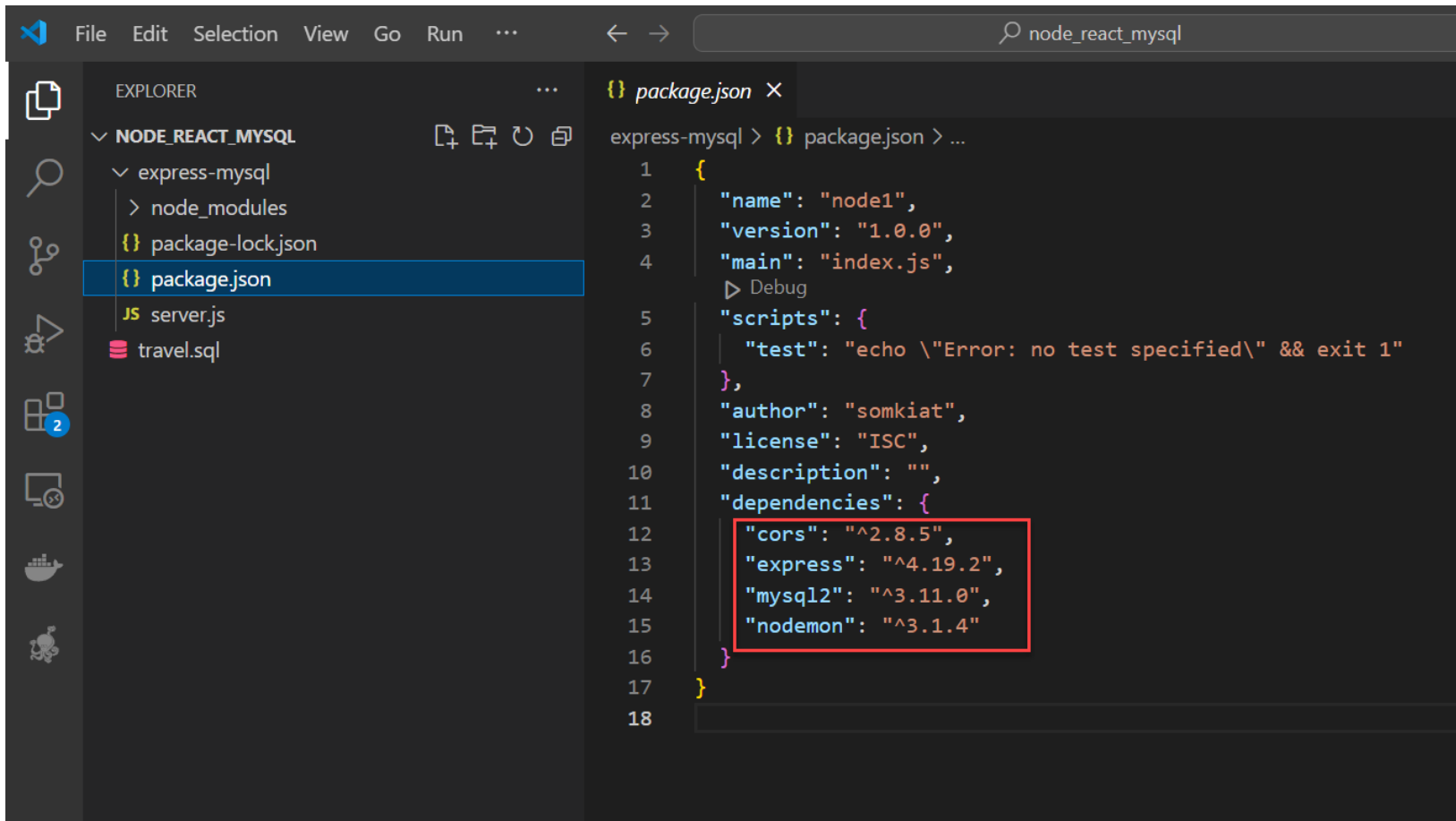
Persist your data between containers

3 mins

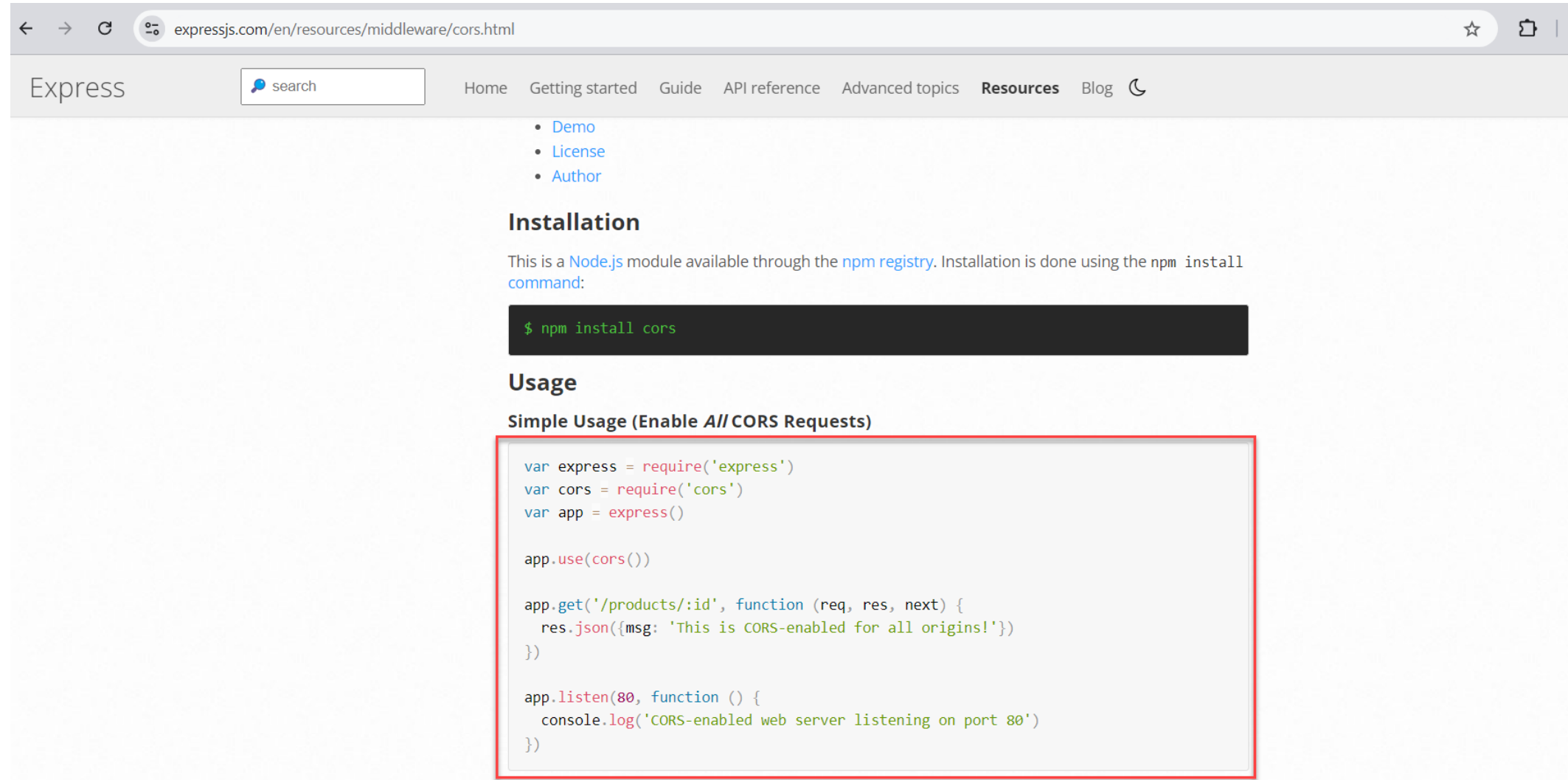
[View more in the Learning center](#)

```
C:\node_react_mysql>mkdir express-mysql  
A subdirectory or file express-mysql already exists.  
  
C:\node_react_mysql>cd express-mysql  
  
C:\node_react_mysql\express-mysql>|
```

```
C:\node_react_mysql\express-mysql>npm install express cors mysql2  
  
added 14 packages, and audited 108 packages in 3s  
  
16 packages are looking for funding  
  run `npm fund` for details  
  
found 0 vulnerabilities  
  
C:\node_react_mysql\express-mysql>|
```



# <https://expressjs.com/en/resources/middleware/cors.html>



The screenshot shows the Express.js website's documentation for the CORS middleware. The browser's address bar displays the URL `https://expressjs.com/en/resources/middleware/cors.html`. The site's navigation bar includes links for Home, Getting started, Guide, API reference, Advanced topics, Resources, and Blog. A search bar is also present. Below the navigation bar, there are links for Demo, License, and Author. The main content area is titled "Installation" and explains that CORS is a Node.js module available through the npm registry, installed via `npm install cors`. This command is shown in a dark terminal-style box. Below the installation section is the "Usage" section, which includes a sub-header "Simple Usage (Enable All CORS Requests)". This section contains a code block with a red border, showing the necessary JavaScript code to set up and use the CORS middleware in an Express application.

Express

Home Getting started Guide API reference Advanced topics **Resources** Blog

- [Demo](#)
- [License](#)
- [Author](#)

## Installation

This is a [Node.js](#) module available through the [npm registry](#). Installation is done using the `npm install cors` command:

```
$ npm install cors
```

## Usage

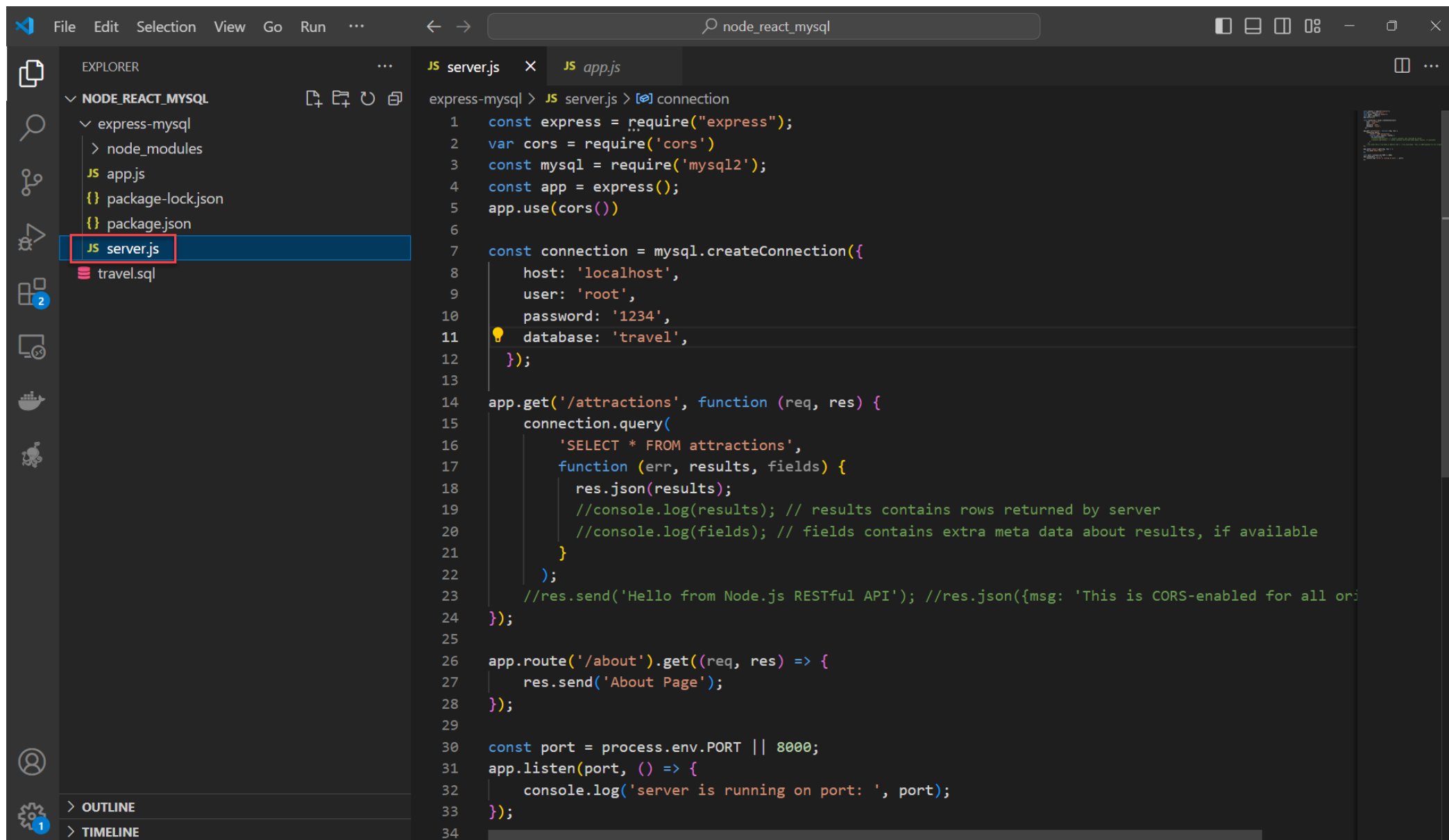
### Simple Usage (Enable All CORS Requests)

```
var express = require('express')
var cors = require('cors')
var app = express()

app.use(cors())

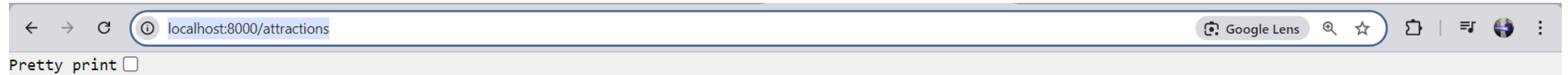
app.get('/products/:id', function (req, res, next) {
  res.json({msg: 'This is CORS-enabled for all origins!'})
})

app.listen(80, function () {
  console.log('CORS-enabled web server listening on port 80')
})
```



```
C:\node_react_mysql\express-mysql>node server.js
server is running on port: 8000
|
```

# ทดสอบการแสดงผล จากฐานข้อมูล



```
[{"id":1,"name":"Phi Phi Islands","detail":"Phi Phi Islands are a group of islands in Thailand between the large island of Phuket and the Malacca Coastal Strait of Thailand.", "coverimage":"https://www.melivecode.com/attractions/1.jpg", "latitude":"7.7376190", "longitude":"98.7068755"}, {"id":2,"name":"Eiffel Tower","detail":"Eiffel Tower is one of the most famous structures in the world. Eiffel Tower is named after a leading French architect and engineer. It was built as a symbol of the World Fair in 1889.", "coverimage":"https://www.melivecode.com/attractions/2.jpg", "latitude":"48.8583736", "longitude":"2.2922926"}, {"id":3,"name":"Times Square","detail":"Times Square has become a global landmark and has become a symbol of New York City. This is a result of Times Square being a modern, futuristic venue, with huge advertising screens dotting its surroundings.", "coverimage":"https://www.melivecode.com/attractions/3.jpg", "latitude":"40.7589652", "longitude":"-73.9893574"}, {"id":4,"name":"Mount Fuji","detail":"Mount Fuji is the highest mountain in Japan, about 3,776 meters (12,388 feet) situated to the west of Tokyo. Mount Fuji can be seen from Tokyo on clear days.", "coverimage":"https://www.melivecode.com/attractions/4.jpg", "latitude":"35.3606422", "longitude":"138.7186086"}, {"id":5,"name":"Big Ben","detail":"Westminster Palace Clock Tower which is most often referred to as Big Ben. This is actually the nickname for the largest bell that hangs in the vent above the clock face.", "coverimage":"https://www.melivecode.com/attractions/5.jpg", "latitude":"51.5007325", "longitude":"-0.1268141"}, {"id":6,"name":"Taj Mahal","detail":"The Taj Mahal or Tachomhal is a burial building made of ivory white marble. The Taj Mahal began to be built in 1632 and was completed in 1643.", "coverimage":"https://www.melivecode.com/attractions/6.jpg", "latitude":"27.1751496", "longitude":"78.0399535"}, {"id":7,"name":"Stonehenge","detail":"Stonehenge is a monument prehistoric In the middle of a vast plain in the southern part of the British. The monument itself consists of 112 gigantic stone blocks arranged in 3 overlapping circles.", "coverimage":"https://www.melivecode.com/attractions/7.jpg", "latitude":"51.1788853", "longitude":"-1.8284037"}, {"id":8,"name":"Statue of Liberty","detail":"The Statue of Liberty is a colossal neoclassical sculpture on Liberty Island in New York Harbor in New York City, in the United States. The copper statue, a gift from the people of France to the people of the United States.", "coverimage":"https://www.melivecode.com/attractions/8.jpg", "latitude":"40.6891670", "longitude":"-74.0444440"}, {"id":9,"name":"Sydney Opera House","detail":"The Sydney Opera House is a multi-venue performing arts centre in Sydney. Located on the banks of the Sydney Harbour, it is often regarded as one of the most famous and distinctive buildings and a masterpiece of 20th century architecture.", "coverimage":"https://www.melivecode.com/attractions/9.jpg", "latitude":"-33.8586110", "longitude":"151.2141670"}, {"id":10,"name":"Great Pyramid of Giza","detail":"The Great Pyramid of Giza is the oldest and largest of the pyramids in the Giza pyramid complex bordering present-day Giza in Greater Cairo, Egypt. It is the oldest of the Seven Wonders of the Ancient World, and the only one to remain largely intact.", "coverimage":"https://www.melivecode.com/attractions/10.jpg", "latitude":"29.9791670", "longitude":"31.1341670"}, {"id":11,"name":"Hollywood Sign","detail":"The Hollywood Sign is an American landmark and cultural icon overlooking Hollywood, Los Angeles, California. It is situated on Mount Lee, in the Beachwood Canyon area of the Santa Monica Mountains. Spelling out the word Hollywood in 45 ft (13.7 m)-tall white capital letters and 350 feet (106.7 m) long.", "coverimage":"https://www.melivecode.com/attractions/11.jpg", "latitude":"34.1340610", "longitude":"-118.3215920"}, {"id":12,"name":"Wat Phra Kaew","detail":"Wat Phra Kaew, commonly known in English as the Temple of the Emerald Buddha and officially as Wat Phra Si Rattana Satsadaram, is regarded as the most sacred Buddhist temple in Thailand. The complex consists of a number of buildings within the precincts of the Grand Palace in the historical centre of Bangkok.", "coverimage":"https://www.melivecode.com/attractions/12.jpg", "latitude":"13.7513890", "longitude":"100.4925000"}]
```