

question	options			answer
A	B	C	D	
What is a client-server architecture?	A network model where multiple clients request and receive services from a central server.	A type of operating system.	A programming language.	A design pattern for GUIs.
Which component handles the business logic in a client-server architecture?	Client	Server	Database	Router
What is the primary role of a client in client-server architecture?	Store data	Process requests	Make requests	Handle security
How does a server handle multiple client requests?	Sequentially	Concurrently	Randomly	One at a time
What is Node.js?	A server-side platform built on Google Chrome's JavaScript Engine (V8 Engine).	A front-end JavaScript library	A type of database.	A CSS framework.
Which of the following is a feature of Node.js?	Synchronous programming	Single-threaded event loop	Blocking I/O operations	Client-side rendering
What is the main advantage of using Node.js?	It uses blocking I/O operations.	It is based on Ruby.	It can handle a large number of simultaneous connections with high performance.	It is used for database management.
Which command is used to install Node.js?	install node	npm install node	sudo apt-get install nodejs	install nodejs
Which method is used to create a server in Node.js?	createServer()	http.createServer()	new Server()	server.create()
Which of the following is a disadvantage of Node.js?	It uses non-blocking I/O.	It has a large number of modules.	It is single-threaded.	It is suitable for real-time applications.
How do you handle errors in Node.js?	Using try-catch blocks	Ignoring them	Using error events	Both A and C
Which function is used to include modules in Node.js?	require()	include()	import()	fetch()
What is the default package manager for Node.js?	npm	yarn	pip	composer
Which of the following is NOT a core module in Node.js?	http	fs	express	path
How can you create a simple 'Hello World' server in Node.js?	Using the http module	Using the fs module	Using the url module	Using the path module
Which of the following is an advantage of using Node.js?	It is synchronous.	It uses non-blocking I/O.	It is multi-threaded.	It is a front-end framework.
How do you start a Node.js application?	node start	npm start	node app.js	npm app.js
What does 'npm' stand for?	Node Package Manager	Network Package Manager	Node Programming Manager	New Package Manager
Which file typically defines the dependencies of a Node.js project?	package.json	node.json	dependencies.json	modules.json
What is the purpose of the 'fs' module in Node.js?	To handle HTTP requests	To manage the file system	To serve static files	To parse URLs
Which method is used to read a file in Node.js?	fs.readFile()	fs.read()	fs.getFile()	fs.openFile()
What is the command to initialize a new Node.js project?	npm init	node init	npm start	node start
What does the 'path' module do in Node.js?	Handles URL parsing	Handles file paths	Manages HTTP requests	Serves static files
How do you install a package using npm?	npm install package_name	node install package_name	npm get package_name	node get package_name
Which command is used to uninstall a package in Node.js?	npm uninstall package_name	node uninstall package_name	npm remove package_name	node remove package_name
Which module is used to create a web server in Node.js?	http	url	fs	path
What is the default port for an HTTP server in Node.js?	80	8080	3000	8000
How do you handle JSON data in Node.js?	Using JSON.parse() and JSON.stringify()	Using the url module	Using the fs module	Using the http module
Which of the following is true about Node.js?	It is a front-end framework.	It is a server-side platform.	It is used for database management.	It is a CSS framework.
How do you stop a running Node.js server?	Ctrl + C	Ctrl + Z	Ctrl + X	Ctrl + V
What does the 'express' module provide?	File system operations	HTTP utilities and middleware	URL parsing	Database management
Which of the following can be used to manage environment variables?	dotenv	express	http	fs
What is the purpose of the 'url' module in Node.js?	To manage file paths	To parse URLs	To handle HTTP requests	To serve static files
How do you install the 'express' module?	npm install express	node install express	npm get express	node get express
Which method is used to listen for requests on a specific port in Node.js?	server.listen()	server.open()	server.start()	server.init()
Which of the following is a Node.js REPL command?	.exit	.stop	.end	.quit
What is the main use of the 'crypto' module in Node.js?	To handle cryptographic functions	To parse URLs	To manage file paths	To handle HTTP requests
How do you create a new directory in Node.js?	fs.mkdir()	fs.createDir()	fs.newDir()	fs.addDir()
Which method is used to write to a file in Node.js?	fs.writeFile()	fs.write()	fs.addFile()	fs.appendFile()
How do you remove a file in Node.js?	fs.unlink()	fs.remove()	fs.delete()	fs.destroy()
What is the purpose of the 'os' module in Node.js?	To provide operating system-related utility methods	To manage file paths	To handle HTTP requests	To parse URLs
Which command is used to check the version of Node.js installed?	node -v	npm -v	node version	npm version
How do you create a buffer in Node.js?	Buffer.alloc()	Buffer.create()	Buffer.new()	Buffer.generate()
Which of the following is a common use case for Node.js?	Building real-time web applications	Developing desktop applications	Creating mobile apps	Managing databases
What is an endpoint in the context of web servers?	A point where the client request is received	A point where the server responds	A URL path that the server listens to	A method of handling HTTP requests
Which HTTP method is typically used to retrieve data from a server?	POST	GET	PUT	DELETE
How do you handle GET requests in Express.js?	app.get()	app.post()	app.put()	app.delete()
What is a module in Node.js?	A library in JavaScript	A chunk of code to be exported	A Node.js built-in function	A type of database
How do you export a module in Node.js?	module.exports = ...	module.imports = ...	module.include = ...	module.require = ...
What does 'npm' stand for?	Node Package Manager	Network Programming Module	Node Programming Manager	New Package Manager
How do you import a module in Node.js?	require('module_name')	import('module_name')	include('module_name')	fetch('module_name')
Which module is used to handle file streams in Node.js?	fs	http	path	url
How do you serve static files in Express.js?	app.use(express.static('public'))	app.serve('public')	app.static('public')	app.get('/static', 'public')
How do you handle exceptions in Node.js?	Using try-catch blocks	Using event listeners	Ignoring them	Both A and B
Which framework is known as the 'de facto standard server framework'?	Express.js	Koa.js	Hapi.js	Sails.js
What is a key feature of the Express framework?	Middleware functions	Built-in ORM	Real-time communication	CSS preprocessor support
Which of the following is a popular framework for building RESTful APIs?	Express.js	Angular.js	Vue.js	React.js
How do you create a new project using npm?	npm init	npm start	npm new	npm create
Which of the following command installs express module?	npm install express	npm get express	node install express	node get express
What is middleware in Express.js?	Functions that have access to the request and response objects	A database query tool	A frontend framework	A built-in library for handling files
How do you start an Express.js server?	app.listen(port, callback)	app.run(port, callback)	app.start(port, callback)	app.init(port, callback)
What is the command to update all packages to the latest version using npm?	npm update	npm upgrade	npm install	npm latest
What is the purpose of the 'body-parser' middleware in Express?	To parse incoming request bodies	To handle routing	To manage sessions	To serve static files

How do you handle 404 errors in Express?	By defining a middleware function at the end of all routes	By using a try-catch block	By restarting the server	By using the 'fs' module	A
Which method is used to send a JSON response in Express?	res.json()	res.send()	res.write()	res.end()	A
What is the command to uninstall a package using npm?	npm uninstall package_name	npm remove package_name	npm delete package_name	npm purge package_name	A
How do you log request details in an Express application?	Using the 'morgan' middleware	Using the 'logger' module	Using the 'request' module	Using the 'express-logger' module	A
What does the 'cors' middleware do in Express?	Enables Cross-Origin Resource Sharing	Handles routing	Manages sessions	Parses incoming request bodies	A
How do you define a route parameter in Express?	Using a colon before the parameter name	Using a question mark before the parameter name	Using curly braces around the parameter name	Using a dollar sign before the parameter name	A
What is the purpose of the 'next' function in Express middleware?	To pass control to the next middleware function	To send a response to the client	To handle errors	To terminate the request-response cycle	A
Which of the following is a core feature of Hapi.js?	Configuration-based approach	Component-based architecture	Real-time communication	Built-in database support	A
What is the primary purpose of the 'express.Router()' function?	To create modular route handlers	To serve static files	To parse incoming request bodies	To handle 404 errors	A
Which module in Node.js is used for creating HTTP servers?	http	fs	path	url	A
How do you handle file uploads in an Express application?	Using the 'multer' middleware	Using the 'fs' module	Using the 'path' module	Using the 'http' module	A
What is the default HTTP method for form submissions?	GET	POST	PUT	DELETE	B
Which of the following is a templating engine supported by Express?	Pug	React	Vue	Angular	A
What is the purpose of the 'res.sendFile()' method in Express?	To send a file as an HTTP response	To send a JSON response	To send a string response	To send a stream response	A
How do you handle HTTPS requests in Node.js?	Using the 'https' module	Using the 'http' module	Using the 'fs' module	Using the 'path' module	A
Which framework is known for being minimal and unopinionated?	Express.js	Angular.js	Vue.js	React.js	A
What is the primary use of the 'cookie-parser' middleware in Express?	To parse cookies attached to the client request	To handle session management	To parse incoming request bodies	To serve static files	A
How do you handle authentication in an Express application?	Using the 'passport' middleware	Using the 'auth' module	Using the 'secure' module	Using the 'validate' module	A
What is a key feature of the Sails.js framework?	It is built on top of Express.	It is a front-end framework.	It is a database management system.	It is used for real-time communication	A
Which of the following is a use case for Koa.js?	Creating middleware with a more expressive and powerful API	Building front-end applications	Managing databases	Handling real-time communication	A
How do you serve an HTML file using Express?	Using the 'res.sendFile()' method	Using the 'res.send()' method	Using the 'res.json()' method	Using the 'res.render()' method	A
What is the purpose of the 'cluster' module in Node.js?	To create child processes that share the same server port	To manage file paths	To parse URLs	To handle HTTP requests	A
Which of the following is true about middleware in Express?	Middleware functions can modify the request and response objects.	Middleware functions can only call the next middleware function.	Middleware functions can call the next middleware function.	All of the above	D
Which of the following is a benefit of using a framework like Express?	Streamlined development process	Built-in routing	Middleware support	All of the above	D
How do you define a static directory in an Express application?	app.use(express.static('public'))	app.get('/static', 'public')	app.route('public')	app.use('/static', 'public')	A
Which method is used to define a route that handles GET requests in Express.js?	app.get()	app.post()	app.put()	app.delete()	A
What is a route path in Express.js?	A URL pattern that the server listens to	A middleware function	An HTTP method	A query parameter	A
How do you define a route parameter in Express.js?	Using a colon before the parameter name	Using a question mark before the parameter name	Using curly braces around the parameter name	Using a dollar sign before the parameter name	A
What is a route handler in Express.js?	A function that executes when a specific route is matched	A middleware function	A module to manage routes	A method to handle HTTP requests	A
Which of the following is a valid response method in Express.js?	res.send()	res.write()	res.read()	res.load()	A
What does the 'res.json()' method do in Express.js?	Sends a JSON response	Sends an HTML response	Sends a plain text response	Sends a file as a response	A
Which method is used to set the HTTP status code for a response in Express.js?	res.status()	res.code()	res.setStatus()	res.setCode()	A
What is middleware in Express.js?	Functions that have access to the request and response objects	A database query tool	A frontend framework	A built-in library for handling file uploads	A
What is the middleware lifecycle in Express.js?	A series of functions executed in order during a request-response cycle	A single function handling all requests	A method to handle HTTP responses	A process to manage database connections	A
What is application-level middleware in Express.js?	Middleware bound to an instance of the app object	Middleware bound to an instance of the router object	Middleware that handles errors	Middleware that manages sessions	A
How do you apply middleware to all routes in an Express application?	app.use(middlewareFunction)	app.all(middlewareFunction)	app.route(middlewareFunction)	app.middleware(middlewareFunction)	A
What is router-level middleware in Express.js?	Middleware bound to an instance of the router object	Middleware bound to an instance of the app object	Middleware that handles errors	Middleware that manages sessions	A
How do you apply middleware to a specific route in Express.js?	router.use('/route', middlewareFunction)	app.use('/route', middlewareFunction)	app.all('/route', middlewareFunction)	app.route('/route', middlewareFunction)	A
What is error-handling middleware in Express.js?	Middleware that handles errors during request processing	Middleware that handles routing errors	Middleware that manages sessions	Middleware that serves static files	A
How do you define an error-handling middleware in Express.js?	By defining a function with four arguments (err, req, res, next)	By defining a function with three arguments (err, req, res)	By defining a function with two arguments (req, res)	By defining a function with one argument (res)	A
What is third-party middleware in Express.js?	Middleware created by the community and available via npm	Middleware created by the Express team	Middleware created by the application developer	Middleware that is built-in to Node.js	A
Which of the following is a popular third-party middleware for parsing JSON requests in Express.js?	body-parser	express-static	express-session	express-router	A
What is the purpose of the 'morgan' middleware in Express.js?	To log HTTP requests	To parse JSON request bodies	To handle sessions	To serve static files	A
Which middleware is used to enable Cross-Origin Resource Sharing (CORS) in Express.js?	cors	body-parser	morgan	express-session	A
How do you handle errors globally in an Express application?	By defining an error-handling middleware function	By using a try-catch block	By using a finally block	By restarting the server	A
What does the 'res.sendFile()' method do in Express.js?	Sends a file as an HTTP response	Sends a JSON response	Sends a string response	Sends a stream response	A
How do you handle route-specific middleware in Express.js?	router.use(middlewareFunction)	app.use(middlewareFunction)	app.all(middlewareFunction)	app.route(middlewareFunction)	A
What is the purpose of the 'express.Router()' function?	To create modular route handlers	To serve static files	To parse incoming request bodies	To handle 404 errors	A
Which method is used to redirect a request in Express.js?	res.redirect()	res.send()	res.render()	res.json()	A
How do you define a middleware that runs only for a specific HTTP method in Express.js?	Using app.method()	Using app.use()	Using app.all()	Using app.route()	A
What is the purpose of the 'res.render()' method in Express.js?	To render a view and send the HTML response	To send a JSON response	To send a plain text response	To send a file as a response	A
How do you handle static files in Express.js?	Using the express.static() middleware	Using the body-parser middleware	Using the morgan middleware	Using the cors middleware	A
Which method is used to chain route handlers in Express.js?	Using app.route().method()	Using app.use()	Using app.all()	Using app.param()	A
What is a benefit of using modular route handlers in Express.js?	Better organization of routes	Improved performance	Increased security	Simplified error handling	A
How do you handle file uploads in an Express application?	Using the 'multer' middleware	Using the 'fs' module	Using the 'path' module	Using the 'http' module	A
What is the primary purpose of the 'app.all()' method in Express.js?	To handle all HTTP methods for a specific route	To handle GET requests	To handle POST requests	To handle PUT requests	A
Which middleware is used to parse URL-encoded data in Express.js?	body-parser.urlencoded()	body-parser.json()	express.static()	morgan()	A
What is the purpose of the 'next' function in Express.js middleware?	To pass control to the next middleware function	To terminate the request-response cycle	To send a response to the client	To handle errors	A
How do you handle form submissions in an Express application?	Using the body-parser middleware	Using the express.static middleware	Using the morgan middleware	Using the cors middleware	A
Which of the following is a use case for Koa.js?	Creating middleware with a more expressive and powerful API	Building front-end applications	Managing databases	Handling real-time communication	A
What is the purpose of the 'app.listen()' method in Express.js?	To bind and listen for connections on the specified host and port	To define a route handler	To use a middleware function	To handle file uploads	A
How do you define a wildcard route in Express.js?	Using an asterisk (*) in the route path	Using a colon (:) in the route path	Using a dollar sign (\$) in the route path	Using a question mark (?) in the route path	A
Which method is used to define a route that handles POST requests in Express.js?	app.post()	app.get()	app.put()	app.delete()	A
How do you handle 404 errors in an Express application?	By defining a middleware function to handle unknown routes	By using a try-catch block	By using the res.status() method	By using the res.sendFile() method	A
Which of the following is a built-in middleware function in Express.js?	express.static()	body-parser	morgan	cors	A

How do you define a middleware function that runs before all routes	<code>app.use(middlewareFunction)</code>	<code>app.all(middlewareFunction)</code>	<code>app.route(middlewareFunction)</code>	<code>app.param(middlewareFunction)</code>	A
Which method is used to chain multiple route handlers for a specific	<code>router.route().method().method()</code>	<code>router.use().use()</code>	<code>router.all().all()</code>	<code>router.param().param()</code>	A
How do you define a dynamic route in Express.js?	Using a colon (:) in the route path	Using an asterisk (*) in the route path	Using a dollar sign (\$) in the route path	Using a question mark (?) in the route path	A