

Modernize your business-critical applications with IBM Open Enterprise SDK for Node.js

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An overview of the features and benefits of the Node.js programming language on the z/OS platform



Build new and efficient, or modernize applications using no-charge license Node.js on z/OS

- Use IBM Open Enterprise SDK for Node.js on the z/OS platform, with a vast pool of 11+ million JavaScript developers world-wide
- Leverage traditional IBM Z benefits: security, scalability, reliability, availability, and serviceability
- Leverage existing critical assets and data on the IBM Z platform and extend them to support new mobile or cloud applications
- Build scalable network applications
- Utilize a module-driven, highly scalable approach to application design and development that encourages agile practices

Key benefits of using Node.js on z/OS



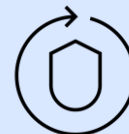
Skills



Cost savings



Security



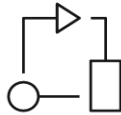
Reliability



High-Performance

Use Node.js for digital transformation and application modernization

IBM Open Enterprise SDK for Node.js is designed to provide you with the capability for:



Modernization

- Modernize applications by extending existing applications using Node.js microservices on Z
- Access z/OS based resources from Node.js using REST APIs



API Orchestration

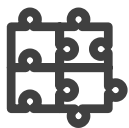
- Avoid exposing more APIs than necessary, simplify API development and maintenance
- Expose a Web API in the form of REST APIs or JSON. Node is a great application for this especially with modules like EXPRESS which enable you to perform web service functions with as little code as possible.



Application development

- Develop web Applications and create REST APIs
- Over 1.8M* modules available each of which tackle one or more problems, the RACF module is an example of a microservice. It helps solve the problem of how to expose a RACF interface so other microservices can make use of this module rather than re-creating it

Leverage new Node.js language features and run Node.js applications on z/OS efficiently



Strategy & Modularity

- Comprehensive IBM Open Enterprise SDK for Node.js on z/OS
- Build applications on any platform and deploy them on z/OS
- Over 1.8M packages* covering all domains supported by a strong community



Agility

- Run Node.js applications in z/OS UNIX shell
- Create applications and tools by using the JavaScript language and Node.js APIs, then use the SDK to deploy them onto your z/OS system



Efficiency

- \$0 license charge product with optional priced IBM Subscription & Support (S&S)
- Improvements in memory allocation and performance. ~10% reduction in shared library size
- Combine IBM Z's high I/O bandwidth with Node.js scalable non-blocking I/O model for increased performance



Productivity

- 3x growth rate vs other runtimes
- Increases efficiency, simplifies build process, and accelerates time to market

Accelerate your efforts in application modernization and journey to cloud

- Explore the advantage of running Node.js on z/OS
- View system requirements and prepare for installation
- Follow the Node.js tutorials and evaluate your needs
- Contact IBM and explore implementation options for your organization



Start using IBM Open Enterprise SDK for Node.js

Refer to the step by step guidance
[Learn more](#)



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Try Node.js - z/OS® hands-on tutorials for 3 days on the cloud, no installation required. Ready in 2 hours.

[link](#)

Technical information

IBM Documentation

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Node.js tutorials

[Link](#)

Other useful information

IBM Z and LinuxONE community (Node.js)

[Link](#)

Repository of community contributed packages

[Link](#)

Thank you

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