



10 Question Framework for High Speed,  
Secure IBM i APIs  
API Planning Worksheet

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# API Planning Worksheet

Question	Notes + Next Steps
<b>1. Use Case Outline:</b> What is the <b>value</b> in solving this problem?	
<b>2. Business Process:</b> What are the <b>steps</b> in the business processes and how are they initiated (inbound, outbound)? What am I calling?	
<b>3. Security:</b> What are the <b>security</b> requirements (both inbound and outbound)?	
<b>4. Performance Requirements:</b> What are the anticipated API call <b>volumes and response time</b> requirements?	
<b>5. Data Handling:</b> What Data and <b>Data Formats</b> will I need to Support?	

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Question	Notes + Next Steps
<b>6. API Business Logic:</b> Is there <b>business logic</b> in the API? Do I need to use Open-Source Modules and/or vendor SDKs?	
<b>7. API Technology:</b> Is REST really the <b>right connection technology</b> ? (e.g., Kafka, Amazon SQS/SNS, Google Pub/Sub...)	
<b>8. API Operations:</b> How do I <b>monitor activity</b> and errors? How do I troubleshoot problems?	
<b>9. API DevOps:</b> How do I <b>manage</b> development, maintenance and deployment?	
<b>10. Getting Help:</b> Where do I <b>go for help</b> ? How do I develop the skills I need?	

# Recommended Technologies + Free Training

- **REST APIs** - The dominant design principle for integrating business applications over the web. Used to create loosely-coupled, high performance, maintainable integrations between systems. [Free Training](#)
- **JavaScript** - The language of the web, and the most widely used programming language in the world. JavaScript is a modern language designed specifically for web-based interactions especially with variable (and often malformed) data in event-based systems. [Free Training](#)
- **Node.js** - An engine for running code written in JavaScript. If you are building applications which will run on IBM i, we recommend using resources specifically around JavaScript with Node.js. [Free Training](#)
- **NPM** - The Node Package Manager. NPM hosts over 2,000,000 free open source packages for use in JavaScript applications. These modules range from simple functions like exporting JSON data to excel to complex fully-functional web servers and production-ready API client SDKs built by major tech companies. [Free Training](#)
- **TypeScript** - Enterprise-ready JavaScript. TypeScript is an extension of JavaScript which provides strong type checking for your JavaScript and allows teams to enforce structures and standards in their JavaScript code. [Why TypeScript?](#) [Free Training](#)
- **Git** - Industry-standard source control tool. Git is used globally by approximately 100 million professionals to manage versions, maintain audit logs, and coordinate complex code changes within teams of developers. [Free Training](#)
- **SQL** - Standard language for database interaction. While direct file access is available in RPG, in the open source and Next-Gen world, SQL is the standard for interacting with relational databases like IBM i DB2. [Free Training](#)