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APIQUICK Reference



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HTTP Verbs

GET: Retrieve data from the server.

POST: Send data to the server to create a resource.

PUT: Send data to the server to update a resource.

PATCH: Send data to the server to update a resource partially.

DELETE: Delete a resource from the server.

TRACE: Returns the full HTTP request received by the server for debugging and diagnostic purposes.

OPTIONS: Returns the HTTP methods supported by the server for the requested URL.

CONNECT: Converts the request connection to a transparent TCP/IP tunnel for secure communication.

PURGE: Invalidates a cached resource.

LOCK: Locks the resource for exclusive use by the client.

UNLOCK: Unlocks the resource previously locked by the client.

MKCOL: Creates a new collection resource.

COPY: Copies the resource identified by the Request-URI to the destination URI.



HTTP Status Codes

1xx: Informational

2xx: Success

3xx: Redirection

4xx: Client Errors

5xx: Server Errors

Response Headers

Content-Type: Specifies the MIME type of the data in the response body.

Content-Length: Specifies the length of the response body in bytes.

Cache-Control: Specifies the caching behavior of the response.

Location : Specifies the URI of a resource that can be used to retrieve the requested resource.

Server: Specifies the name and version of the server software that generated the response.

Access-Control-Allow-Origin: Specifies which origins are allowed to access the resource.

API Design

REST: Representational State Transfer, a design pattern for building web services.

SOAP: Simple Object Access Protocol, a messaging protocol for exchanging structured data.

GraphQL: A query language and runtime for building APIs.

API Gateway: A service that manages, protects, and scales APIs.

API Architectures

SOA: Service-Oriented Architecture, an architectural style for building distributed systems.

Microservices: An architectural style for building complex applications as a suite of small, independent services.

Serverless: A cloud computing execution model where the cloud provider manages the infrastructure and automatically allocates resources as needed.

Event-Driven: An architectural style where the flow of data between components is triggered by events.

RESTful API : An architectural style that uses HTTP requests to GET, POST, PUT, and DELETE data.

API Design Patterns

Adapter Pattern: A pattern that converts the interface of a class into another interface that clients expect.

Decorator Pattern: A pattern that adds behavior to an individual object dynamically.

Proxy Pattern: A pattern that provides a surrogate or placeholder for another object to control access to it.

Chain of Responsibility Pattern: A pattern that delegates commands to a chain of processing objects.

Observer Pattern: A pattern that defines a one-to-many dependency between objects so that when one object changes state, all its dependents are notified and updated automatically.

API Security

OAuth: An open standard for authorization used for protecting APIs.

JWT: JSON Web Tokens, a standard for securely transmitting information between parties as a JSON object.



SSL/TLS: Secure Sockets Layer/Transport Layer Security, a protocol for establishing a secure connection between a client and a server.

API Key: A secret token used to authenticate API requests.

Rate Limiting: A technique used to limit the number of requests that can be made to an API over a specific period of time.

OpenID Connect: An authentication layer built on top of OAuth that allows users to be authenticated across multiple domains.

Cross-Origin Resource Sharing (CORS): A mechanism that allows many resources (e.g., fonts, JavaScript, etc.) on a web page to be requested from another domain outside the domain from which the resource originated.

API Security

Postman: A popular tool for testing and debugging APIs.

SoapUI: A tool for testing SOAP and REST web services.

Swagger: A tool for designing, building, and testing APIs.

JMeter: A tool for testing the performance of APIs.

TestRail: A test management tool for planning, executing, and tracking API tests.

Dredd: A command-line tool for testing API documentation against its backend implementation.

REST Assured: A Java-based library for testing RESTful APIs.

Karate DSL: A testing framework for API testing using Gherkin syntax.

HttpMaster: A tool for testing and debugging APIs.

Assertible: A tool for testing and monitoring APIs with automated tests.

API Development

Node.js: A JavaScript runtime for building server-side applications.

Express: A popular framework for building web applications and APIs with Node.js.

Django: A Python web framework for building web applications and APIs.

Flask: A lightweight Python web framework for building web applications and APIs.

Spring: A Java framework for building enterprise-level web applications and APIs. **Algo**

API Implementation Platforms

Firebase: A mobile and web application development platform developed by Google.

Backendless: A mobile and web application development platform that allows developers to build and deploy applications without backend coding.

Parse Server: An open-source version of the Parse backend that can be deployed to any infrastructure.

Amazon API Gateway: A fully managed service that makes it easy for developers to create, publish, maintain, monitor, and secure APIs.

Microsoft Azure API Management : A fully managed service that enables users to publish, secure, transform, maintain, and monitor APIs.

API Performance

Caching: A technique for improving API performance by storing responses in a cache.

Throttling: A technique for limiting the rate of requests to an API to prevent overload.

API to prevent overload.

API Monitoring

Pingdom: A tool for monitoring the uptime and performance of APIs.

New Relic: A tool for monitoring the performance of APIs and other web applications.

Datadog: A monitoring and analytics platform for cloud-scale applications and APIs.

Sumo Logic : A cloud-based log management and analytics platform for APIs and other applications.

Loggly: A cloud-based log management platform for monitoring APIs and other applications.

API Standards

JSON API: A specification for building APIs that use JSON as the data format.

HAL: Hypertext Application Language, a standard for building hypermedia-driven APIs.

JSON-LD: A format for representing linked data on the web.

OData: Open Data Protocol, a standard for building and consuming RESTful APIs.

API Standards Organizations

W3C: The World Wide Web Consortium, an international community that develops web standards.

IETF: The Internet Engineering Task Force, an open standards organization that develops and promotes Internet standards.

OASIS: Organization for the Advancement of Structured Information Standards, a nonprofit consortium that drives the development, convergence, and adoption of open standards for the global information society.

RESTful API Modeling Language (RAML): A YAML-based language for describing RESTful APIs developed by MuleSoft.

JSON API: A specification for building APIs that use JSON as the data format.

API Standards Organizations

Kubernetes: An open-source platform for managing containerized workloads and services.

OpenShift: A container application platform that builds on top of Kubernetes.

Docker Swarm : A native clustering and orchestration solution for Docker.

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API Governance

API Management : The process of creating, publishing, and monitoring APIs in a secure and scalable way.

API Monetization : The process of generating revenue from APIs by charging developers for usage.

API Versioning: The process of managing changes to APIs over time.

API Analytics: The process of collecting and analyzing data on API usage and performance.

API Gateway: A service that manages, protects, and scales APIs.

API Documentation

OpenAPI: A specification for building APIs in YAML or JSON format **API Blueprint**: A high-level API description language for building RESTful APIs.

RAML: A YAML-based language for describing RESTful APIs

Swagger UI: A tool for visualizing and interacting with APIs that have been described using the OpenAPI specification.

Slate: A tool for generating beautiful, responsive API documentation.

API Deployment

Heroku: A cloud platform for deploying, managing, and scaling web applications and APIs.

AWS Elastic Beanstalk: A service for deploying and scaling web applications and APIs on AWS.

Azure App Service : A service for deploying and scaling web applications and APIs on Azure.

Google App Engine: A service for deploying and scaling web applications and APIs on GCP.

Docker: A containerization platform used for packaging and deploying applications.

AWS Lambda: A serverless compute service for running code in response to events.

Azure Functions: A serverless compute service for running code in response to events.

Google Cloud Functions: A serverless compute service for running code in response to events.

Netlify: A cloud platform for deploying and managing static websites and APIs.

Vercel: A cloud platform for deploying and managing static websites and APIs.



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