

API Management

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1. We can manage and create api's, function using API management
2. It gives an option to add more control over the api by adding api request limit, keys etc

API Management provides the core functionality to ensure a successful API program through developer engagement, business insights, analytics, security, and protection. Each API consists of one or more operations, and each API can be added to one or more products. To use an API, developers subscribe to a product that contains that API, and then they can call the API's operation, subject to any usage policies that may be in effect.

API Management components

Azure API Management is made up of an *API gateway*, a *management plane*, and a *developer portal*. These components are Azure-hosted and fully managed by default. API Management is available in various [tiers](#) differing in capacity and features.

- The API gateway is the endpoint that:
 - Accepts API calls and routes them to appropriate backends
 - Verifies API keys and other credentials presented with requests
 - Enforces usage quotas and rate limits
 - Transforms requests and responses specified in policy statements
 - Caches responses to improve response latency and minimize the load on backend services
 - Emits logs, metrics, and traces for monitoring, reporting, and troubleshooting
- The management plane is the administrative interface where you set up your API program. Use it to:
 - Provision and configure API Management service settings
 - Define or import API schema
 - Package APIs into products
 - Set up policies like quotas or transformations on the APIs
 - Get insights from analytics
 - Manage users
- The Developer portal is an automatically generated, fully customizable website with the documentation of your APIs. Using the developer portal, developers can:
 - Read API documentation
 - Call an API via the interactive console
 - Create an account and subscribe to get API keys
 - Access analytics on their own usage
 - Download API definitions
 - Manage API keys

