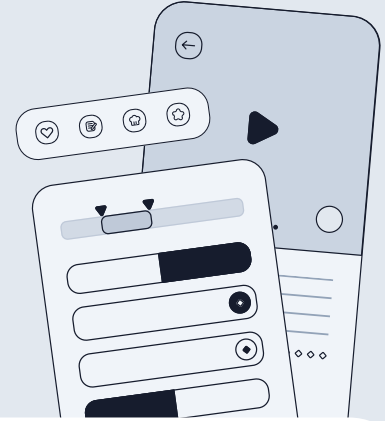# Functions

Run your custom code on our infrastructure

Insert business logic into your event-processing pipeline or use pre-built integrations to transform, re-route, augment, filter, aggregate messages, react to user presence events, and more.

PubNub Functions is a serverless edge-processing solution for developers building event-driven and real-time apps. It enables features such as real-time language translation, content moderation, IoT sensor data aggregation, geo-triggering, leaderboards, notifications, and more.

Enhance Customer Experience

Execute your code at the edge with ultra-low latency, ensuring very responsive customer experiences. Modify events in flight for real-time moderation, translation, and more.
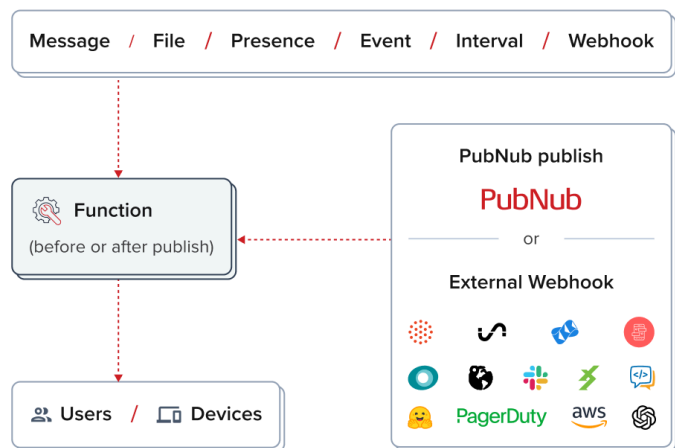
Minimize Costs

Use edge processing to transmit and store only the data that matters most. Save development time with pre-built integrations, logging capabilities, and a debug console.

Reduce Operational Risk

Offload your business logic to PubNub —removing concerns about downtime, scalability, and compliance. Enjoy zero upfront costs with our pay-as-you-go pricing model.

Message / File / Presence / Event / Interval / Webhook

Function
(before or after publish)

PubNub publish

PubNub

or

External Webhook

Users / Devices

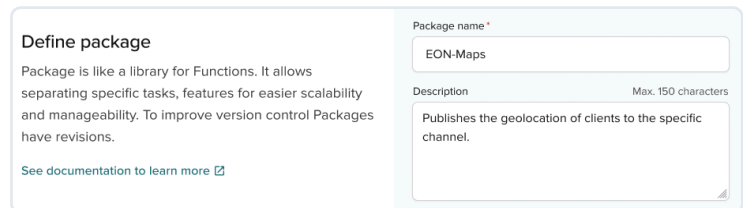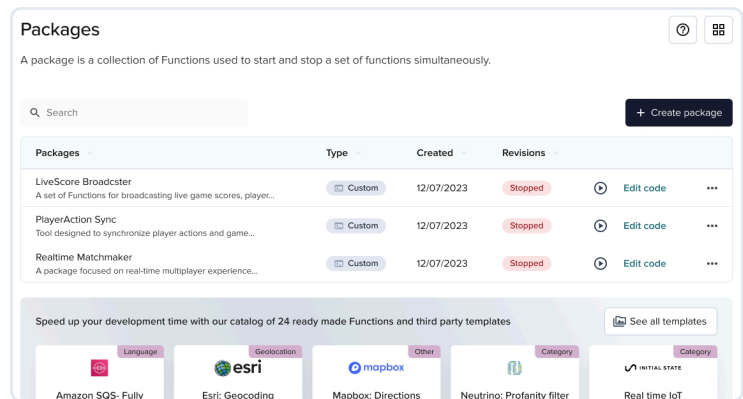> "The biggest value PubNub provides IntelliScape.io is the ability to maintain laser-focus on our customer's needs. Our team is never distracted by performance issues, real-time infrastructure, or any facets of our global IoR network. Avoiding engineering distractions is priceless. Continual focus on real-time innovation; also priceless."

Bill French
Chief Architect, IntelliScape

intelliscape.io

In-stream data manipulation without the infrastructure overhead

- **Serverless architecture:** Build and deploy functions without managing infrastructure—focus on coding while PubNub handles scaling and maintenance.

- **In-flight processing:** Modify messages and events in real-time for moderation, translation, filtering, rerouting, and much more.

- **Pre-built integrations:** Connect seamlessly to services like AI, chatbots, voice, video, SMS, maps, and moderation tools.

- **Built-in events:** Trigger functions on key events like publish, file, signal, presence, requests, or intervals.

- **Distributed storage:** Maintain global application state with a reliable key-value store.

- **Pre-built modules:** Accelerate development with ready-to-use modules for encryption, secret management, and beyond.

- **Edge processing:** Run functions near data sources for lower latency and real-time performance.

- **Enterprise-grade:** Ensure security with SOC 2, HIPAA compliance, AES encryption, and EU data storage options.

- **Debug Console:** Test and debug functions within PubNub; export logs to services like AWS or Kafka.

Packages

A package is a collection of Functions used to start and stop a set of functions simultaneously.

Search | | | + Create package

Packages	Type	Created	Revisions		
LiveScore Broadcster — A set of Functions for broadcasting live game scores, player...	Custom	12/07/2023	Stopped	▶	Edit code ...
PlayerAction Sync — Tool designed to synchronize player actions and game...	Custom	12/07/2023	Stopped	▶	Edit code ...
Realtime Matchmaker — A package focused on real-time multiplayer experience...	Custom	12/07/2023	Stopped	▶	Edit code ...

Speed up your development time with our catalog of 24 ready made Functions and third party templates — See all templates

Language	Geolocation	Other	Category	Category
Amazon SQS- Fully	Esri: Geocoding	Mapbox: Directions	Neutrino: Profanity filter	Real time IoT

Define package

Package is like a library for Functions. It allows separating specific tasks, features for easier scalability and manageability. To improve version control Packages have revisions.

See documentation to learn more ↗

Package name *
EON-Maps

Description | Max. 150 characters
Publishes the geolocation of clients to the specific channel.

Dynamic Messaging

Implement real-time translation, enforce automated content moderation, and dynamically route messages for seamless communication.

Reacting to Events

Build real-time data pipelines to trigger personalized no-tifications, enable geo-fencing, and detect trends or anomalies for actionable insights.

Data Pre-Processing

Filter data at the edge, aggregate IoT sensor inputs, and deliver live leaderboards for real-time, interactive user experiences.

Trusted by leading brands across the globe

DAZN · doxy.me · SWIGGY · Kustomer · noon Academy

✉ Want to learn more about how PubNub can help you build, manage, and monetize your app?
Get in touch with our team.