



# Kosh - User Guide

*Fast, Secure & Beginner-Friendly State Management*

## What is Kosh?

Kosh is a lightweight, modular, and framework-agnostic state management library. It provides fast in-memory data handling, persistence with TTL, encryption, and simple reactivity. Perfect for both micro and enterprise apps.

## Why Use Kosh?

- Zero boilerplate setup
- React, Vue, Angular compatible
- Built-in persistence and TTL
- Encrypt state for secure usage
- Beginner-friendly interface
- Extremely lightweight (~2 KB)

## Core Features

- **State Management:** In-memory, reactive, and efficient
- **Persistence:** LocalStorage, SessionStorage, TTL support
- **Encryption:** Optional encryption with secret key
- **Modularity:** Separate storage engine, extensible core
- **Effect System:** Handle async state changes easily

## Where to Use

- Global app state
- Auth tokens & preferences
- Shopping carts, forms, filters
- Lightweight state needs in SPAs
- Encrypted local/session storage use cases



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## Comparison with Redux and Zustand

Feature	Kosh	Redux	Zustand
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Boilerplate	Very Low	High	Low
Learning Curve	Easy	Steep	Moderate
Persistence	Built-in	External libs	Middleware
Encryption	Yes	No	No
Async Support	Built-in	Middleware	Built-in
Framework Agnostic	Yes	Yes	Mostly React
Modularity	High	Medium	Medium
Size	~2 KB	~6-7 KB	~1 KB