

Functional Redis

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The purpose of the `Func.Redis` library is to abstract and manage Redis operations.

The library includes functionalities for:

- keys management (get, set, del) using `IRedisKeyService`
- hash sets using `IRedisHashSetService`
- sets using `IRedisSetService`
- lists using `IRedisListService`
- pub/sub using `IRedisPublisherService` and `IRedisSubscriber`
- generic interaction with Redis for all the use cases not covered by the above implementations using `IRedisService`

Functional Redis Extensions

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The `Func.Redis.Extensions` project contains additional functionality and utilities that extend the core capabilities of the `Func.Redis` project allowing for a simplified setup of the dependency injection container.

The main functionalities are the `IServiceCollection AddRedis` extension method that accepts the following parameters:

- `IConfiguration config` to retrieve the `RedisConfiguration` object from any supported provider (json file, env variables, ...) and an optional `RedisKeyConfiguration` that allows prefixing keys
- `RedisCapabilities capabilities`: to select the functionality to be enabled (the enum supports bitwise operations)
- `bool addLogging` to enable predefined logging functionalities
- `Assembly[] assemblies` to scan for specific instances of `IRedisSubscriber` (when `RedisCapabilities.Subscribe` is enabled)

The extension allows to specify the right implementation of `IRedisSerDes` to deal with serialization and deserialization