

CHECKLIST

Redis-as-a-Service

What you need to establish a standardized Redis service

While Redis adoption may start small, over time it's common for independent development teams to seek the benefits of building with Redis.

But, naturally, those teams often have different requirements. This disparate approach can lead to significant waste, duplication of efforts, and high costs for large, distributed, or complex organizations.

Nobody wants that. Let's simplify things.

What is Redis-as-a-Service?

Redis-as-a-Service is a framework that businesses can use to standardize how they design, build, deploy, or manage Redis. There are two main methods to establish Redis-as-a-Service. You can use either one or both—whichever suits your needs:

A Center of Excellence helps individual teams that plan to design or build applications that use Redis. A Center of Excellence is an internal team within an enterprise that is tasked with developing and sharing Redis expertise. It provides suggestions, knowledge, guidance, playbooks, research, and best practices to any individual development team in the organization that is building applications with Redis.

A Shared Service removes the need for individual teams to manage their own Redis deployments. With a shared service for Redis, a centralized shared services organization centrally deploys and manages Redis deployments as an internal service available to developers across the company. When a developer needs to deploy an application (via infrastructure as code, operations, monitoring, etc.), they can select Redis in a service catalog; the shared services handle the rest.

How do you know which you need?

You'll benefit from a **Center of Excellence** if you...

- Have teams using several Redis services (such as Redis Open Source and cloud-provided Redis services) and you need to support rationalization or vendor sprawl reduction
- Have more than five teams independently using Redis (good decision!)
- Struggle to provide architectural and design guidance to teams building with Redis organization-wide
- Need to establish company guidelines for using Redis

You'll benefit from a **Shared Service** if you...

- Have existing Shared Services organizations for other technologies or databases
- Have more than five Redis deployments
- Need to respond fast; you regularly deploy Redis quickly and efficiently
- Want to centralize Redis management and operations
- Need to provide centralized deployment, management, monitoring, and support

To establish a Center of Excellence, you need to:

- ✓ **Institute a team of internal experts**

A Redis Center of Excellence (CoE) is a small team tasked with developing deep Redis expertise and sharing knowledge, guidance, playbooks, and best practices across the broader organization. These are typically individuals or teams with relevant, successful Redis experience.
- ✓ **Create and compile documentation about how to use Redis**

The CoE creates and shares documentation. The documentation can be based on recent internal lessons (such as a playbook for building a streaming app with Redis) or external research and formal training (product documentation, Redis University graduates, recommended books, and so on).
- ✓ **Share expertise and distribute resources**

The CoE should offer expertise to and consult with individual teams to provide architectural guidance and answer questions for anyone building with Redis (or who should be). It also should standardize and distribute documentation so it is available to teams across the company on a self-service basis.

To establish a Shared Service, you need to:

- ✓ **Establish a Shared Services team**

You must integrate Redis into the Shared Services team, whose members are responsible for maintaining the organization's Redis service. That team provides a centralized process to deploy Redis in-house. It also is responsible for management and support for any Redis-related service.
- ✓ **Add Redis as an offering in your service catalog**

The service catalog provides a single reference to developers and application teams from which the developers access catalog items. Developers can request that Redis-as-a-Service configurations be provisioned based on their application's needs (database size, replication, resilience, etc.).
- ✓ **Create IaC templates**

IaC tools greatly help standardize Redis database creation across an organization. The IaC templates permit control of infrastructure deployment from database creation and allow administrators to drive consistency, efficiency, and visibility.
- ✓ **Implement portability and containerization**

Help your Shared Services team to quickly and efficiently provide infrastructure as needed, wherever it is needed. For instance, Kubernetes can provide quick infrastructure deployment anywhere complete with multi-tenancy, easy scale-out, and high efficiency.
- ✓ **Centralize monitoring**

Monitoring helps Shared Services administrators understand the status of service offerings across the company and recognize what's used and by whom. Individual business units can keep tabs on their own Redis instances, but centralized monitoring gives the company a bigger picture.
- ✓ **Create a system for centralized patching**

The Shared Services team should collaborate with business units to ensure that no production application is disrupted during patching of Redis Enterprise clusters.

Learn more

Interested in implementing Redis-as-a-Service for your company? [Book a meeting with a Redis expert to get started.](#)