

Bookstack Wiki

Architecture

☐ Here you can find architecture diagrams corresponding to our pricing plans.

(This section contains three architecture diagrams, each illustrating the infrastructure setup based on the selected pricing model.)

- [1. Bookstack infra with default auth](#)
- [2. Bookstack infra with Google auth, on default VPC](#)
- [3. Bookstack infra with Google auth, custom VPC](#)

1. Bookstack infra with default auth

1. Bookstack infra with default auth, on default VPC, RDS AutoBackup Off, Single-AZ, EC2. ≈\$45.40

This **BookStack** infrastructure is **optimized for cost efficiency** by utilizing an **existing VPC** instead of provisioning a new one. **AWS Cognito** authentication is **disabled**, relying on **standard authentication** mechanisms. The database is hosted on **RDS** with a **Single-AZ deployment**, and **AutoBackup** is **disabled** to minimize costs. Additionally, the infrastructure includes an **EC2 instance**, **EFS Backup** for persistent storage, **Secrets Manager** and **Systems Manager** for secure configuration management, and **CloudWatch Logs** for monitoring and troubleshooting.

[Bookstack infra-1.jpeg](#)
BookStack CloudFormation template shown

You can always update the current stack using a **Change Set** to enable:

- **RDS Multi-AZ** (`MultiAZ=true`) for high availability,
- **RDS AutoBackup** (`AutoBackup=true`) for automatic backups,
- **RDS Deletion Protection** (`DeletionProtection=true`) to prevent accidental deletion.

However, **you cannot switch from the default VPC to a custom one** because the **CIDR block differs**, preventing the stack from being updated.

For instructions on updating the stack using a **Change Set**, please refer to the [dedicated guide](#).

2. Bookstack infra with Google auth, on default VPC

2. Bookstack infra with Google auth, on default VPC, RDS AutoBackup Off, Single-AZ, EC2. ≈\$51.40

Balanced BookStack deployment utilizing an **existing VPC** with **AWS Cognito** for authentication. **RDS Single-AZ** with **AutoBackup disabled** ensures **cost efficiency**, while **EFS Backup, Secrets Manager, Systems Manager, EC2**, and **CloudWatch Logs** provide security and monitoring.

[Bookstack infra 2.png](#)

You can always update the current stack using a **Change Set** to enable:

- **RDS Multi-AZ** (`MultiAZ=true`) for high availability,
- **RDS AutoBackup** (`AutoBackup=true`) for automatic backups,
- **RDS Deletion Protection** (`DeletionProtection=true`) to prevent accidental deletion.

However, **you cannot switch from the default VPC to a custom one** because the **CIDR block differs**, preventing the stack from being updated.

For instructions on updating the stack using a **Change Set**, please refer to the [dedicated guide](#).

3. Bookstack infra with Google auth, custom VPC

3. Bookstack infra with Google auth, custom VPC, RDS AutoBackup Off, Single-AZ, EC2. ≈\$84.25

The **BookStack infrastructure** is designed **for a scalable and secure deployment**. It utilizes a **new VPC** for network isolation, **AWS Cognito** for **authentication**, and **RDS** for database management in a **Single-AZ** configuration with **AutoBackup disabled to optimize costs**. An **EC2 instance** powers the application, while **EFS Backup** ensures data persistence. **Secrets Manager** and **Systems Manager** enhance configuration security, and **CloudWatch Logs** provide real-time monitoring and troubleshooting capabilities.

[Bookstack infra 3.png](#) Image type: unknown

You can always update the current stack using a **Change Set** to enable:

- **RDS Multi-AZ** (`MultiAZ=true`) for high availability,
- **RDS AutoBackup** (`AutoBackup=true`) for automatic backups,
- **RDS Deletion Protection** (`DeletionProtection=true`) to prevent accidental deletion.

However, **you cannot switch from the default VPC to a custom one** because the **CIDR block differs**, preventing the stack from being updated.

For instructions on updating the stack using a **Change Set**, please refer to the [dedicated guide](#).