

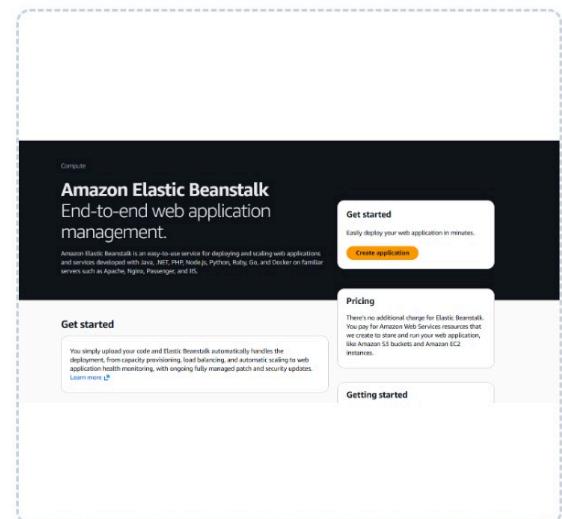
# Flask Web App Deployment

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AWS Elastic Beanstalk Strategy

## 01 Create Application

Initiate the deployment by defining your application name in the AWS Management Console.



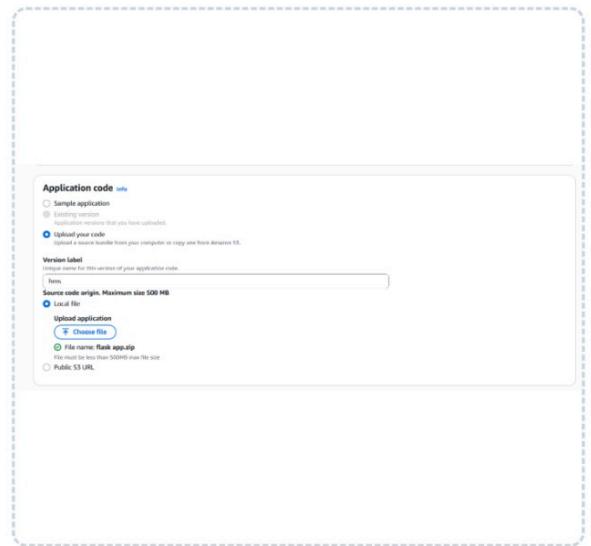
## 02 Environment & Platform

Configure the environment tier and select the Python managed platform version.

The screenshot shows the 'Environment information' section where the environment name is set to 'HTTP-env'. It also shows the 'Domain' field containing 'FLASK.app' and 'ap-south-1.elasticbeanstalk.com', with a 'Check availability' button. The 'Environment description' section is collapsed. In the 'Platform info' section, the platform is set to 'Python', the branch to 'Python 3.14 running on 64bit Amazon Linux 2023', and the version to '4.9.2 (Recommended)'. The 'Application code' section shows a link to a 'Sample application'.

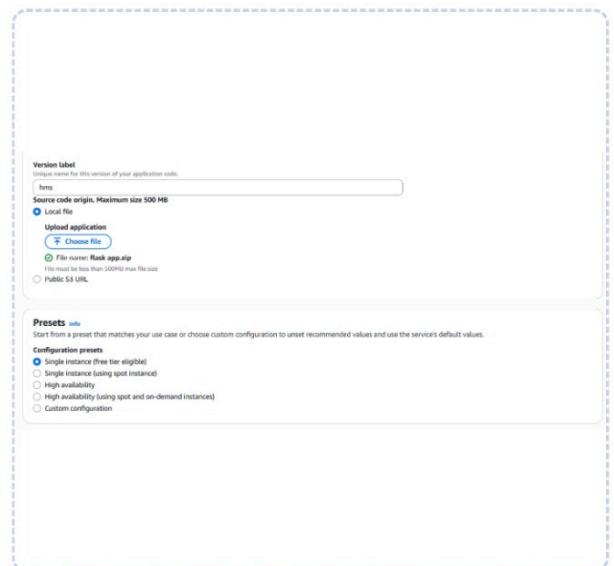
## 03 Application Code

Upload your source bundle as a ZIP file ensuring it contains 'application.py'.



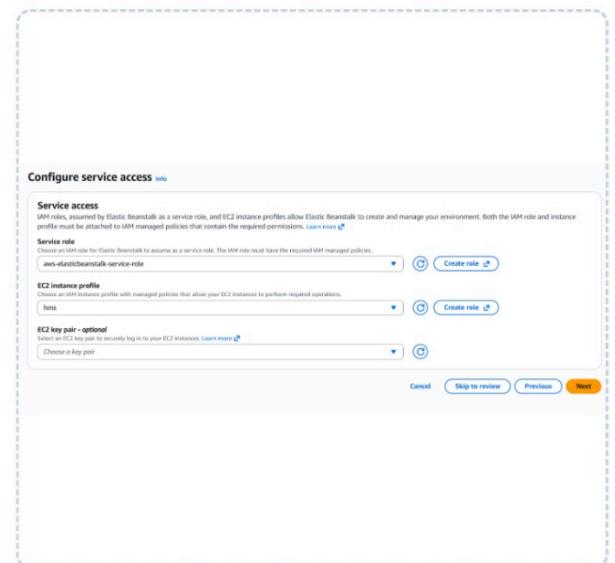
## 04 Version Label & Presets

Define a unique version label and choose a configuration preset.



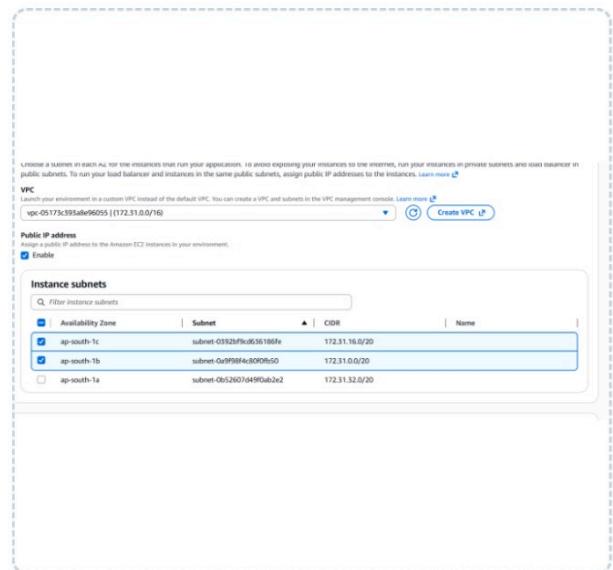
## 05 Service Access (IAM)

Assign necessary IAM roles and EC2 instance profiles for permissions.



## 06 VPC and Subnets

Set up network isolation by selecting a VPC and designating subnets.



## 07 Database Setup

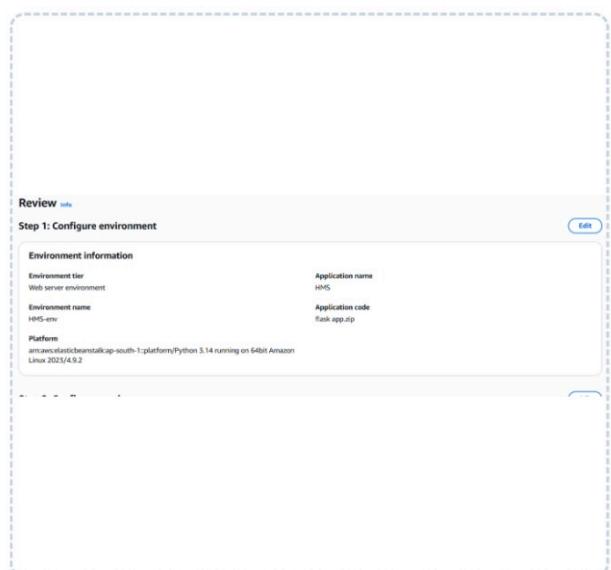
Integrate an RDS instance for persistent relational storage.

The screenshot shows the 'Database settings' configuration page for creating a new RDS instance. It includes fields for Engine (MySQL), Engine version (8.4.7), Instance class (db.t3.small), Storage (10 GB), Username (host), and Password (\*\*\*\*\*).

**Database settings**  
Choose an engine and instance type for your environment's database.  
**Engine**: mysql  
**Engine version**: 8.4.7  
**Instance class**: db.t3.small  
**Storage**: Enter a number between 5 GiB and 1024 GiB.  
**Username**: host  
**Password**: \*\*\*\*\*

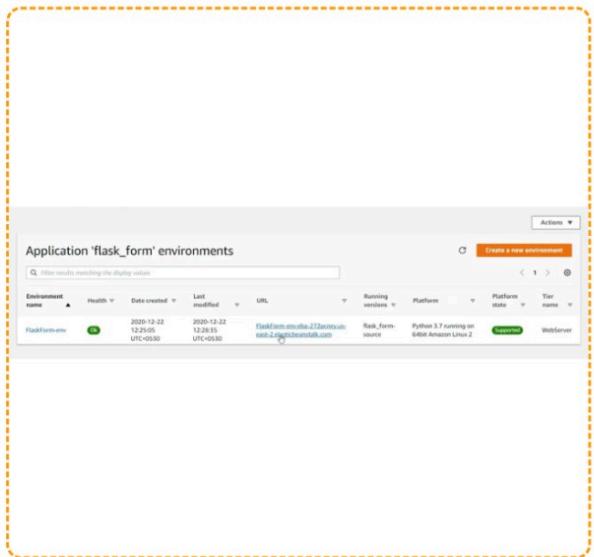
## 08 Configure Environment

Customize instance types and auto-scaling triggers.



## 09 Review & Finish

Verify configuration details and execute the launch.



# Conclusion & Next Steps

- ✔ **Production Ready:** Scalable managed infrastructure.
- ⟳ **Easy Updates:** Simple version management.
- 📈 **Monitoring:** Health dashboards and CloudWatch logs.

**Deployment Successful!**