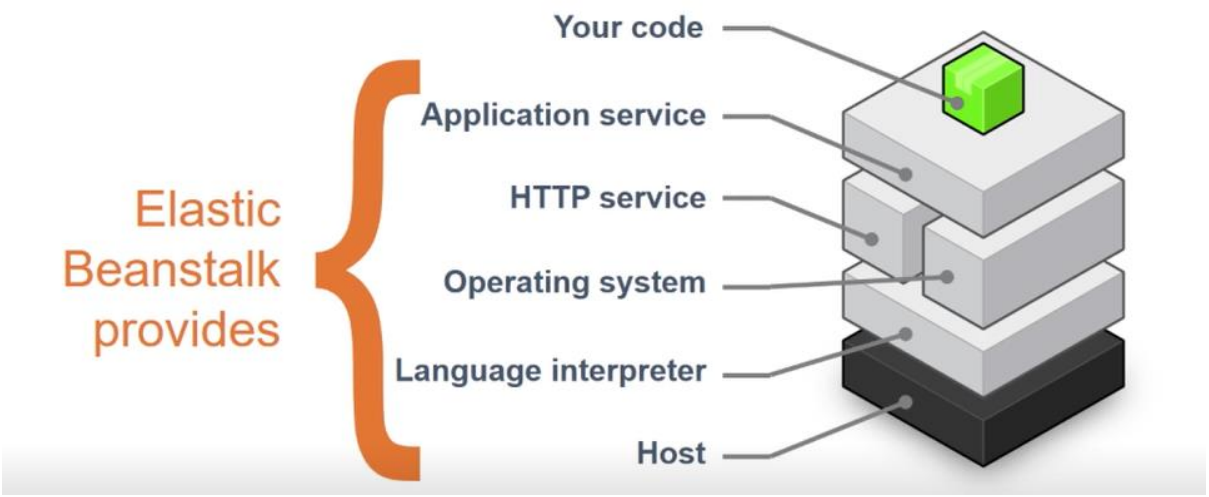
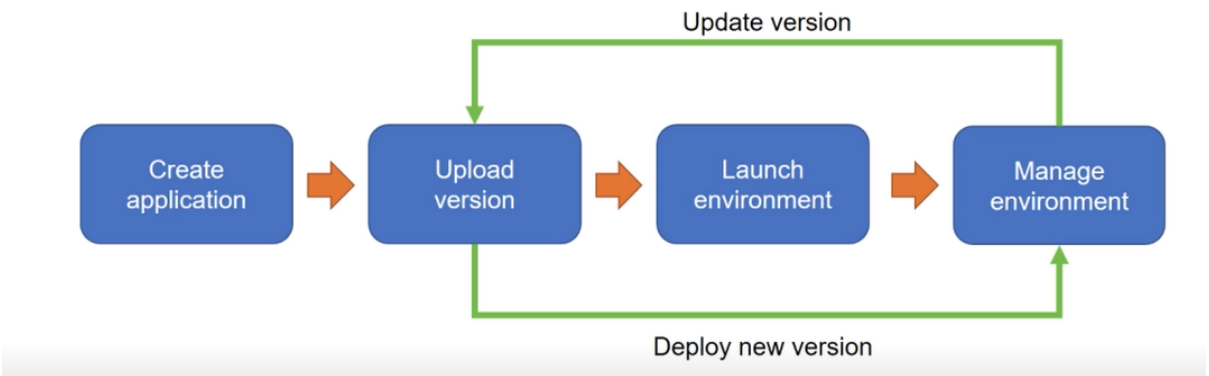
AWS elastic beanstalk:

- Platform as a service
- Allows quick deployments of your applications
- Reduces management complexity
- Keep control in your hands
    1. Choose your instance type
    2. Choose your database
    3. Set and adjust auto scaling
    4. Update your application
    5. Access server log files
    6. Enables HTTP on load balancer
- Supports a large range of platforms
- Easily implemented



- Deployment and updates:



AWS Elastic Beanstalk Features:

- Application: Elastic Beanstalk directly takes in out project code. So Elastic Beanstalk application is named the same as your project home directory.

- Application Environments: Users may want their application to run on different environments like DEV, UAT and PROD. You can create and configure different environments to run application on different stages.

- Environment Health: One of the most lucrative features about running application on AWS or most of the other cloud platforms is the automated health checks. AWS runs automatic health checks on all EC-2 deployments (Elastic Beanstalk is a managed EC-2 service) which can be monitored from AWS console. For example, in case of web applications AWS will regularly, as scheduled by the developers, ping the application to check if the response is status code 200 and the application is running as expected. Health check responses:

  Red: Application failed all health tests.

  Yellow: Application failed some of the health tests.

  Grey: Application is updating.

  Green: Application passed health check successfully.

- Isolated: All environments within a single application are isolated from each other (independent of each others' running states). Needless to say two different applications are also isolated.

- Scalability: Using Auto-Scaling within Elastic beanstalk makes the application dynamically scalable.

- Elastic Load Balancing: All the web requests to the application are not directly relayed to application instances. They first hit the Elastic Load Balancer (ELB), which, as the name suggests, balances the load across all the application instances.

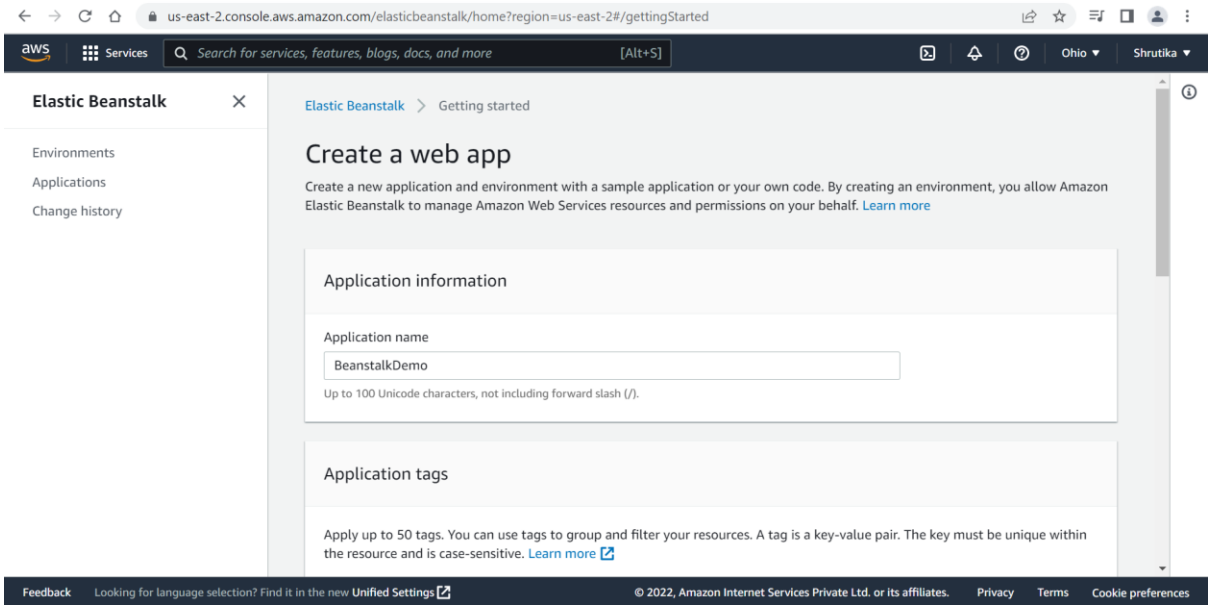
- Language support: Elastic Beanstalk supports the applications developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

- Pricing: There is no extra charge for using Elastic Beanstalk. Users ar only required to pay for the services and resources provisioned by Elastic Beanstalk Service.

- Automatic Provisioning: Elastic Beanstalk takes away the burden of choosing the right services and configuring their security groups to work together.

- Impossible to Outgrow: AWS claims that since Elastic Beanstalk uses Auto Scaling feature it can, in theory, handle any amount of internet traffic.

Demo: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Create a web app
Create a new application and environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. Learn more
Application information
Application name
BeanstalkDemo
Up to 100 Unicode characters, not including forward slash (/).
Application tags
Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. Learn more
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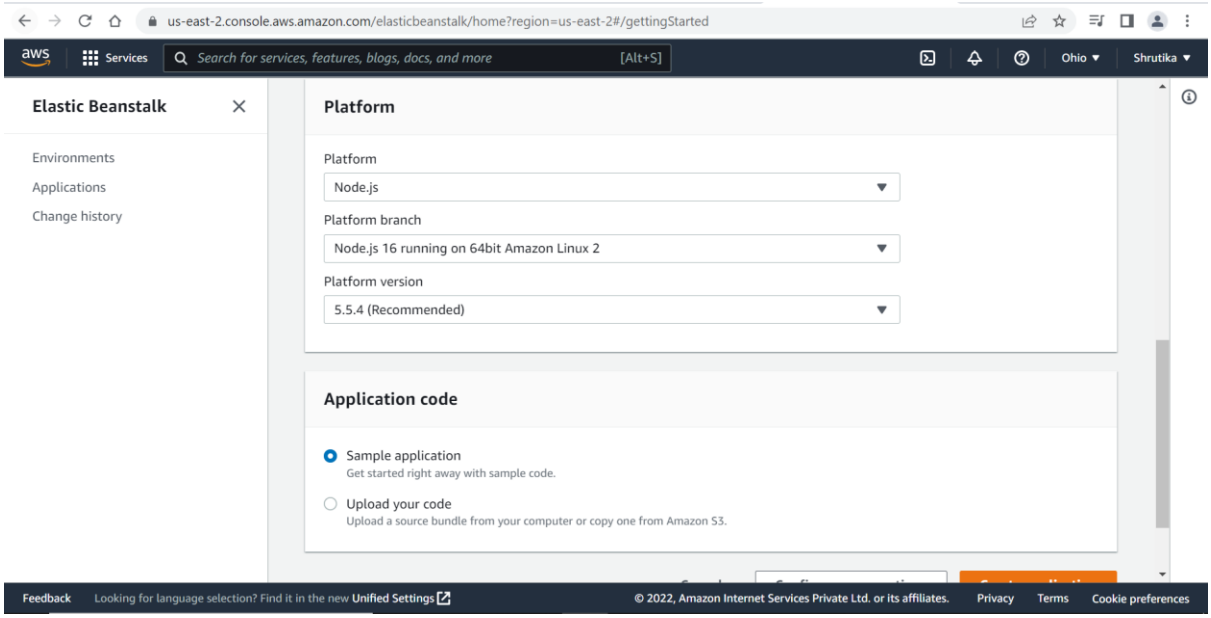
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Platform
Platform
Node.js
Platform branch
Node.js 16 running on 64bit Amazon Linux 2
Platform version
5.5.4 (Recommended)
Application code
Sample application
Get started right away with sample code.
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Upload a source bundle from your computer or copy one from Amazon S3.
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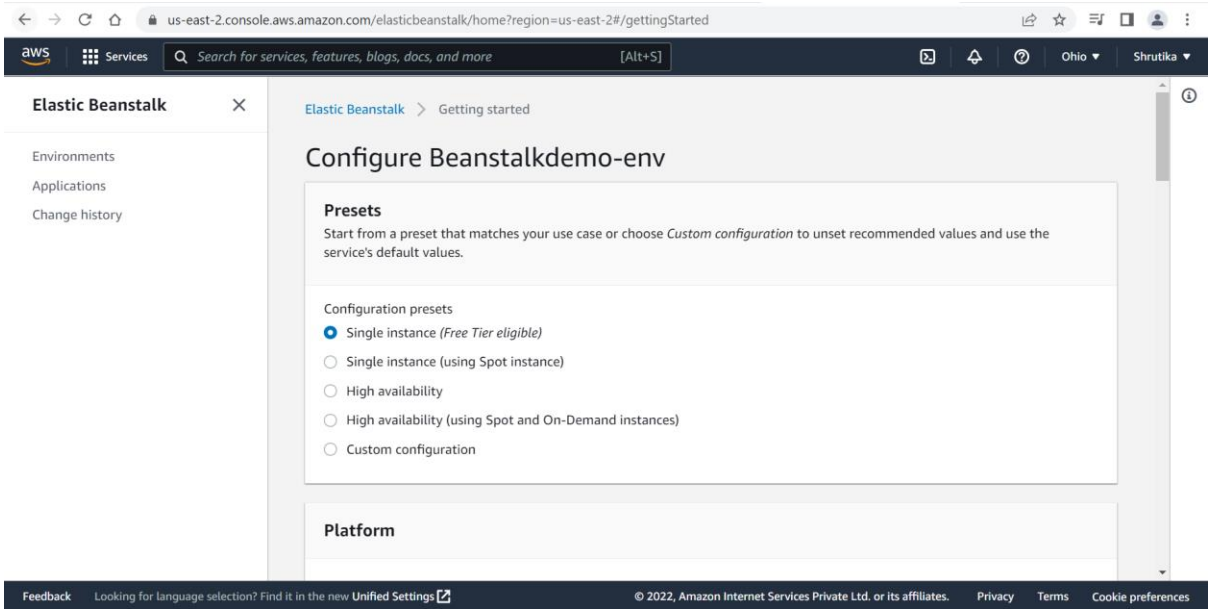
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Configure Beanstalkdemo-env
Presets
Start from a preset that matches your use case or choose Custom configuration to unset recommended values and use the service's default values.
Configuration presets
Single instance (Free Tier eligible)
Single instance (using Spot instance)
High availability
High availability (using Spot and On-Demand instances)
Custom configuration
Platform
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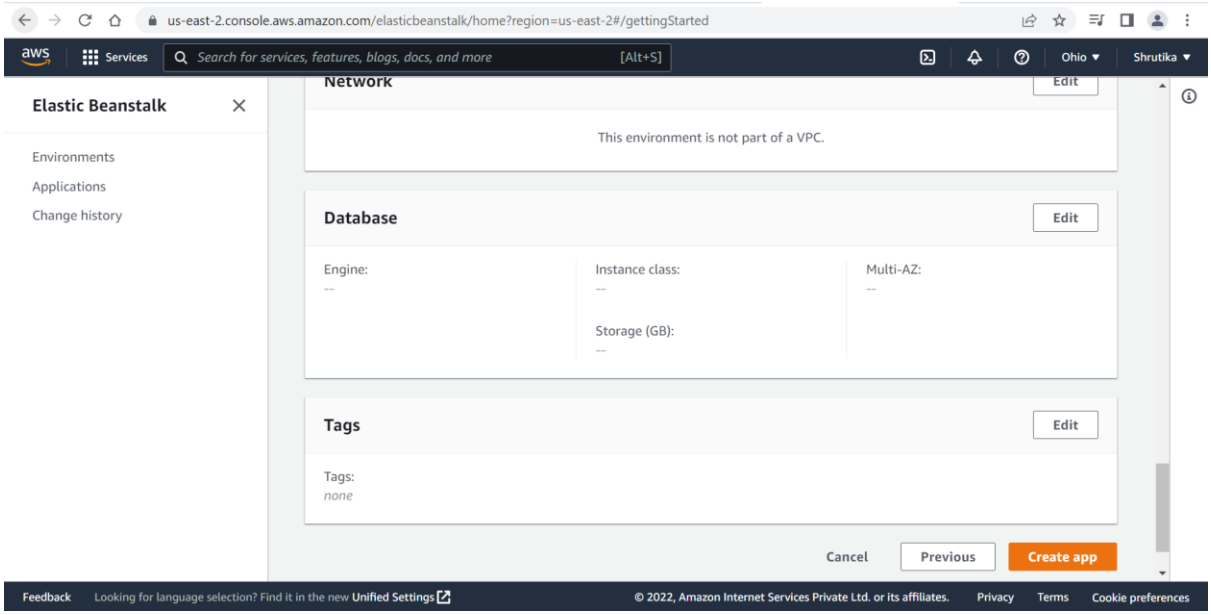
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Environments
Applications
Change history
Network
Edit
This environment is not part of a VPC.
Database
Edit
Engine:
--
Instance class:
--
Storage (GB):
--
Multi-AZ:
--
Tags
Edit
Tags:
none
Cancel
Previous
Create app
Feedback
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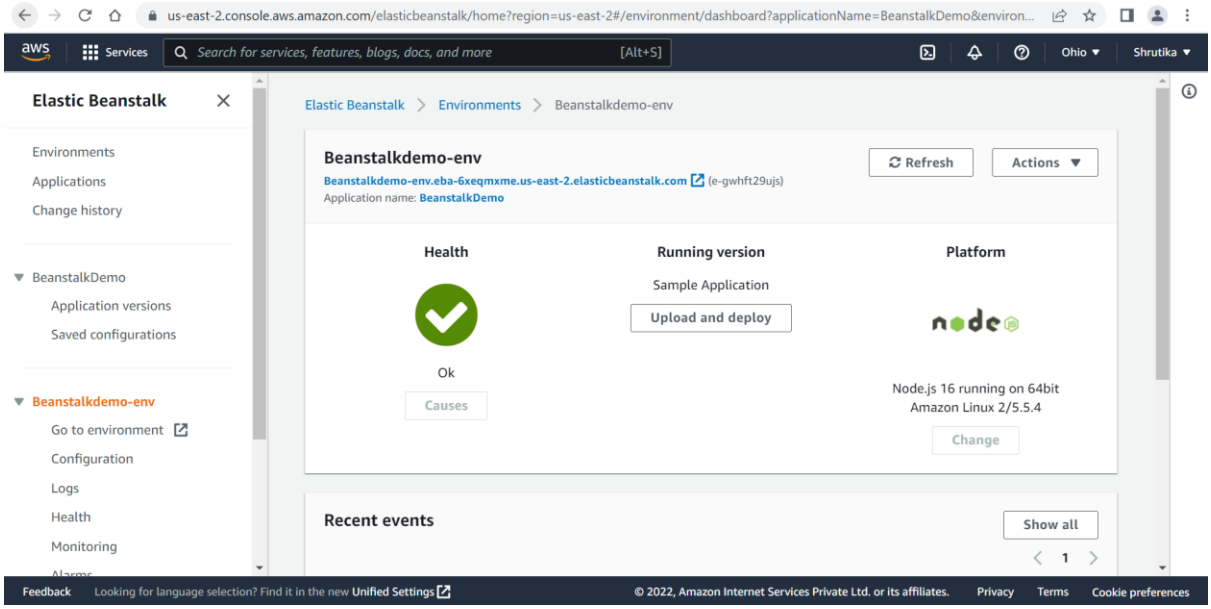
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Applications
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BeanstalkDemo
Application versions
Saved configurations
Beanstalkdemo-env
Go to environment
Configuration
Logs
Health
Monitoring
Elastic Beanstalk > Environments > Beanstalkdemo-env
Beanstalkdemo-env
Beanstalkdemo-env.eba-6xeqmxme.us-east-2.elasticbeanstalk.com (e-gwhft29ujs)
Application name: BeanstalkDemo
Refresh
Actions
Health
Ok
Causes
Running version
Sample Application
Upload and deploy
Platform
Node.js 16 running on 64bit
Amazon Linux 2/5.5.4
Change
Recent events
Show all
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