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Introduction to Elastic Beanstalk

CLARUSWAY
WAY TO REINVENT YOURSELF

Introduction to Elastic Beanstalk

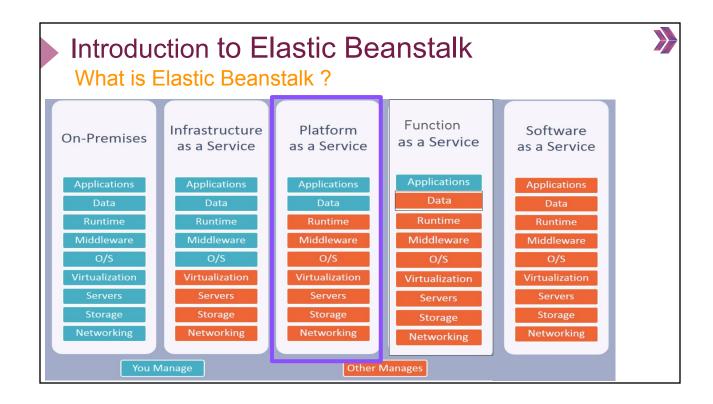
What is Elastic Beanstalk?



- AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services.
- It is a kind of orchestration service offered by Amazon Web Services used to set up your application architecture.







Introduction to Elastic Beanstalk

What is Elastic Beanstalk?







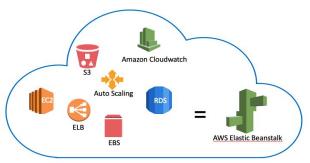




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Introduction to Elastic Beanstalk

Why AWS Elastic Beanstalk?



- Automates the details of capacity provisioning,
- · Load balancing,
- · Auto scaling,
- · Application deployment,



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Introduction to Elastic Beanstalk

Why AWS Elastic Beanstalk?

Automates management tasks:

- - Monitoring





- Version deployment,
- Health check
- Log







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Basic Concepts of Elastic Beanstalk



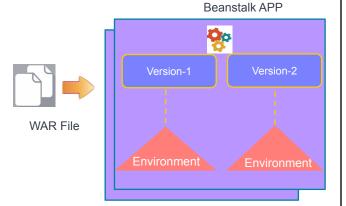
Basic Concepts of Elastic Beanstalk

Application

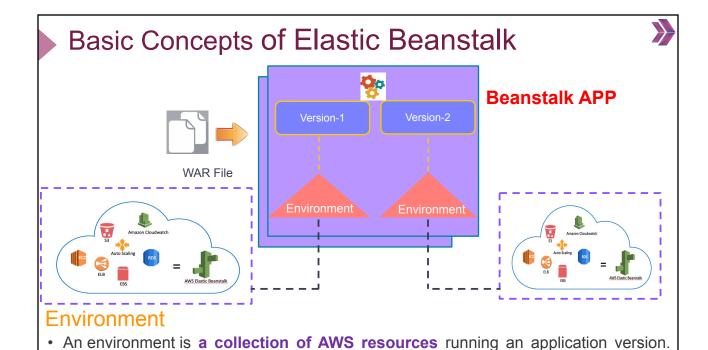
 Application is a logical collection of Elastic Beanstalk components. It covers all components.

Application version

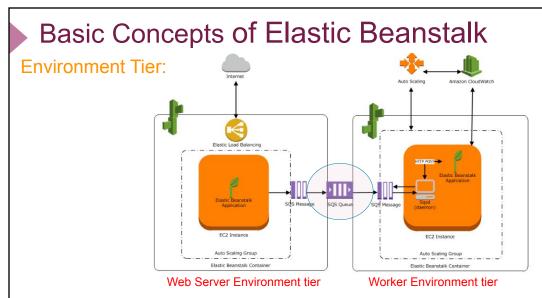
 Specific, labeled iteration of deployable code for a web application.



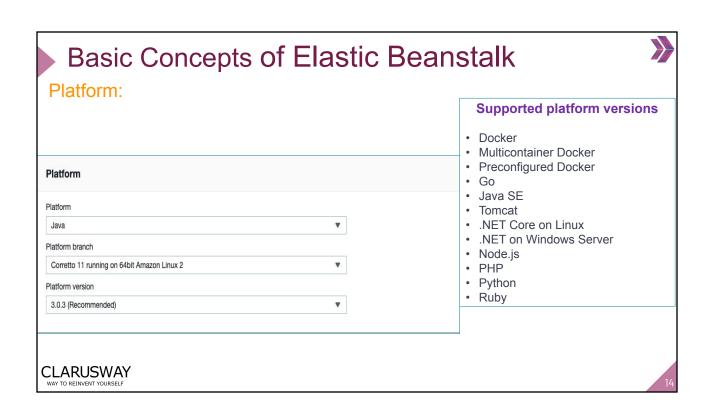




Each environment runs only one application version at a time.



 The environment tier designates the type of application that the environment runs, and determines what resources Elastic Beanstalk provisions to support it.





Concept	What it Means	
Application	Logical collection of Elastic Beanstalk components required for a working deployment	
Application Version	A labelled version of an application (e.g. 1.0, 1.1, 2.0, etc)	
Environment	A set of AWS resources running a specific application version (e.g. DEV, TEST, PROD)	
Environment Tier	The type of application that an environment runs (either Web or Worker)	
Platform	Combination of OS, programming language, web server - i.e. the "technology stack"	

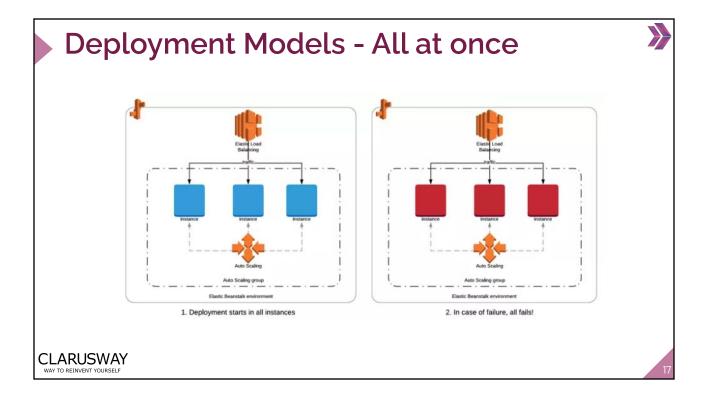


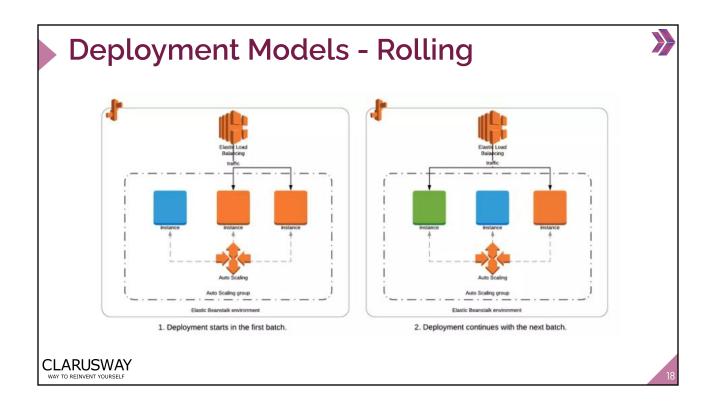
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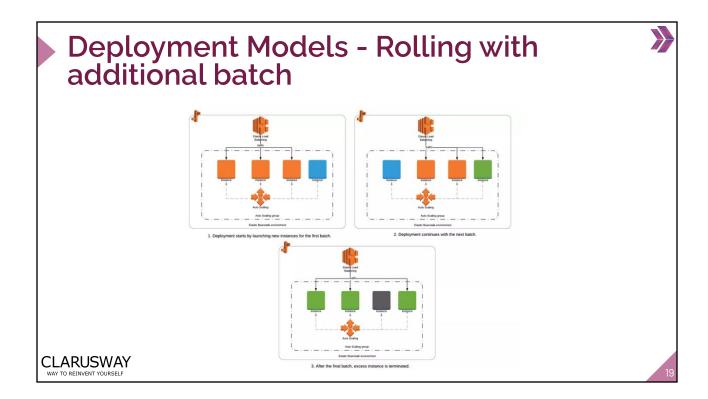


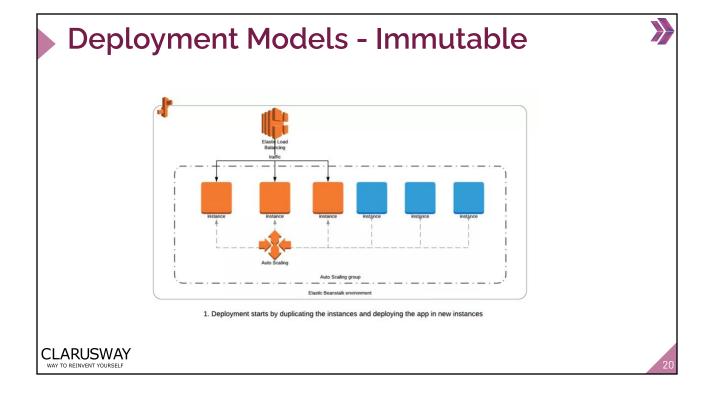
Elastic Beanstalk Command Line Interface (EB CLI)

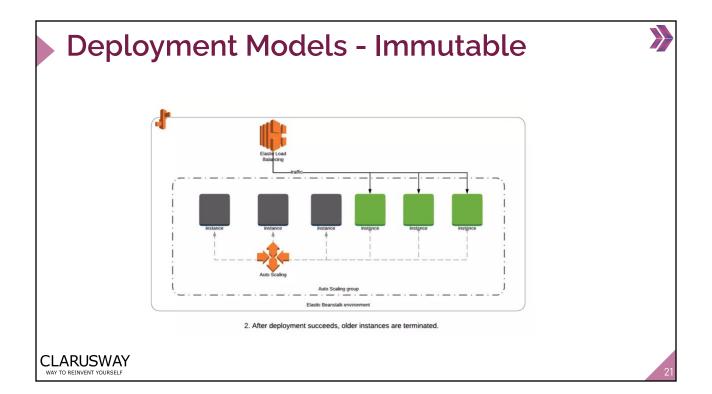
user@clarusway-MacBook~ % eb --version EB CLI 3.19.4 (Python 3.9.4)

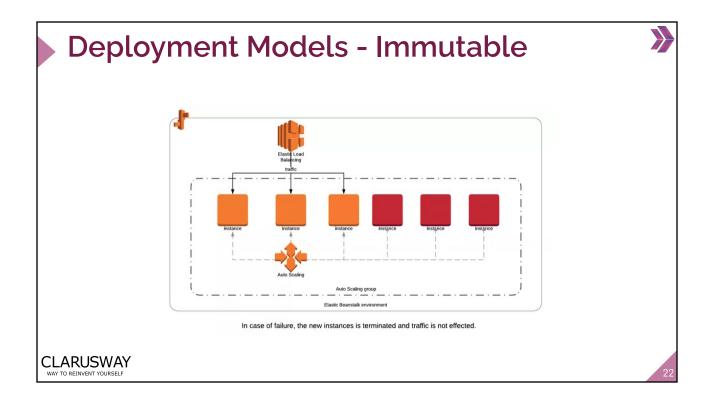


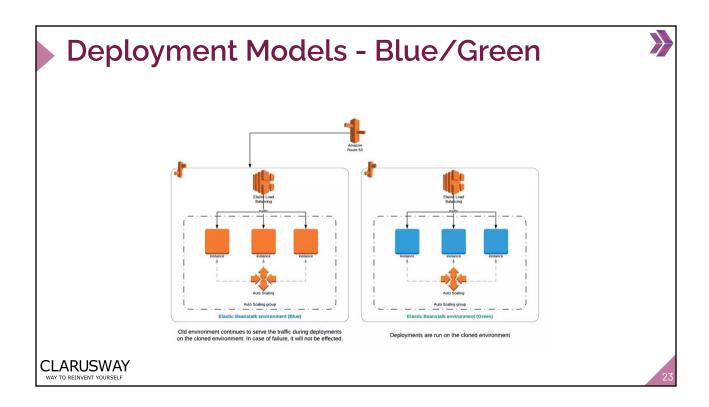


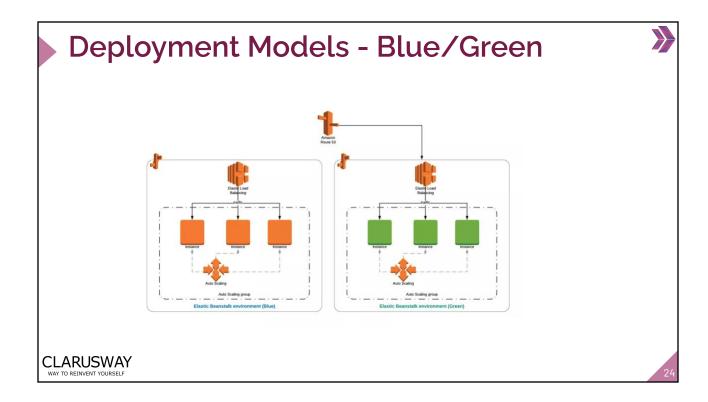












Deployment Models - Pros & Cons



Supported deployment pol	icies		
Deployment policy	Load-balanced environments	Single-instance environments	Legacy Windows Server environments†
All at once	⊘ Yes	⊘ Yes	⊘ Yes
Rolling	⊘ Yes	⊗ No	⊘ Yes
Rolling with an additional batch	⊘ Yes	⊗ No	⊗ No
Immutable	⊘ Yes	⊘ Yes	⊗ No
Traffic splitting		⊗ No	⊗ No



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Elastic Beanstalk



Let's get our hands dirty!

- Creating Application



