AWS re:Invent

OPN309-R

CI/CD using Jenkins and Spinnaker on Amazon EKS

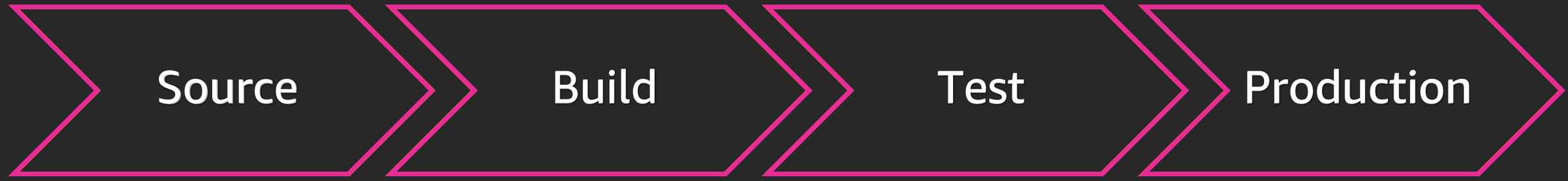
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Release process stages



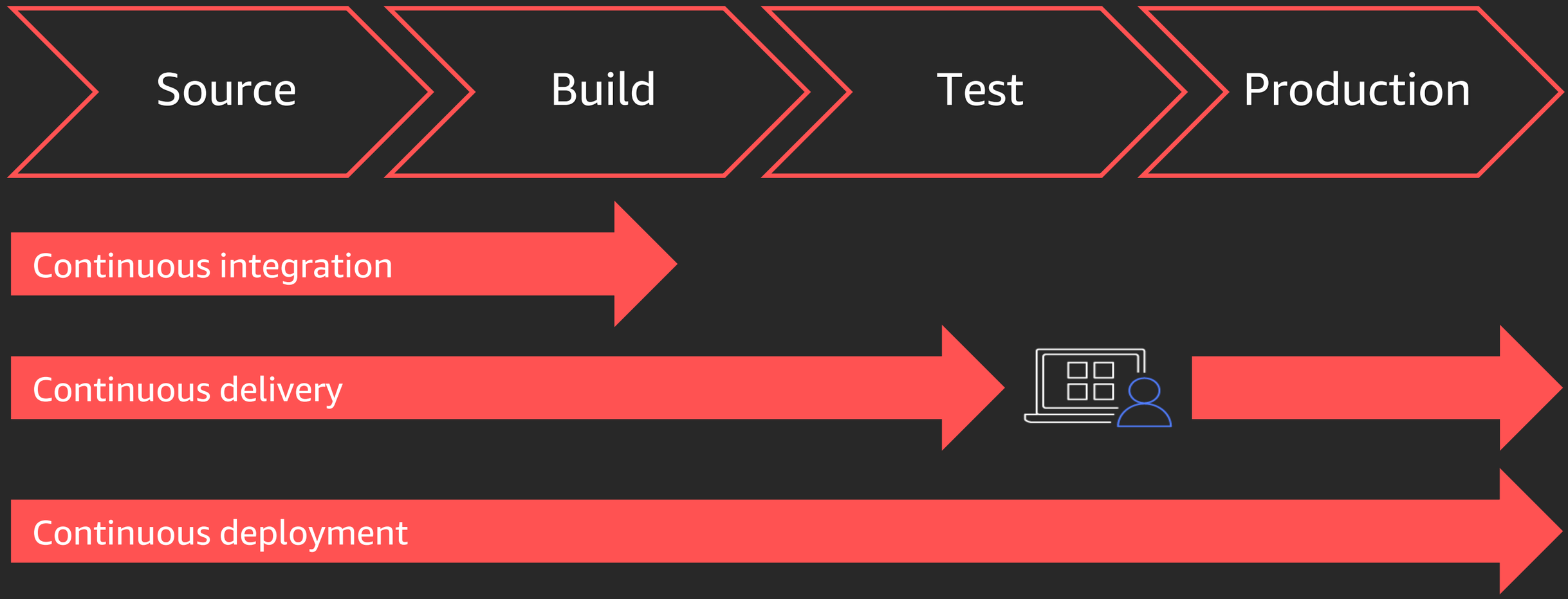
- Check-in source code such as .java files
- Peer review new code

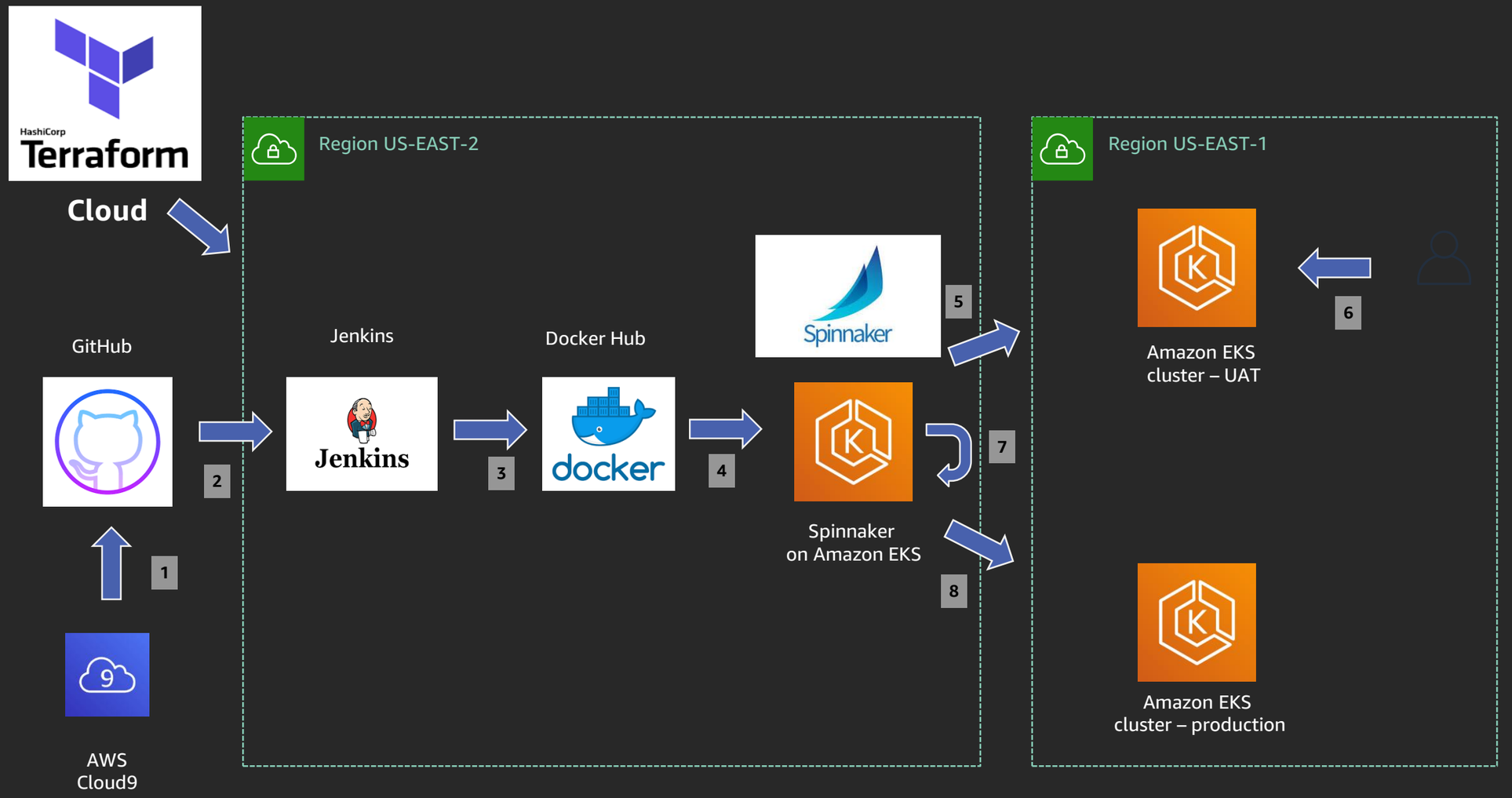
- Compile code
- Unit tests
- Style checkers
- Create container images and function deployment packages

- Integration tests with other systems
- Load testing
- UI tests
- Security testing

- Deployment to production environments
- Monitor code in production to quickly detect errors

Release process stages





1. Developers integrate changes into a branch
2. Triggers Jenkins Pipeline
3. Jenkins builds a new Docker image and pushes it with a build ID to Docker Hub repo
4. Triggers the first Spinnaker pipeline
5. Spinnaker performs a deployment into UAT Amazon EKS cluster
6. UAT testing
7. Spinnaker human/manual approval pipeline
8. Spinnaker performs a deployment into production EKS cluster

Demo

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