**Deployment strategies**

**Blue-Green and Canary mixed deployment**

* Combination of Blue-Green and Canary deployment strategies for one region.
* Maintains two separate environments: Blue (current stable version) and Green (updated version)
* small subset of users or servers (Canary group) selected to receive the update.
* Majority of users or servers (Stable group) continue to use the blue environment.
* Performance, stability, and user experience of the updated version closely monitored during the Canary phase.
* Gradual rollout of changes to a larger percentage of users or servers based on Canary group results.
* Green environment becomes the new stable version after a successful deployment.
* Minimizes risks and disruptions while ensuring a controlled release of updates.

**Blue-Green Deployment**

* The deployment strategy for releasing software updates or new features.
* Blue environment serves as the live and stable production system.
* Green environment hosts the updated version with new changes.
* Switching traffic from Blue to Green makes the updated version live.
* Provides easy rollback to the previous version if issues arise.
* Reduces downtime and minimizes risk during deployment.

**Canary Deployment**

* Deployment strategy for releasing software updates or new features.
* Gradual rollout of changes to a small subset of users or servers (Canary group) initially.
* Majority of users or servers (Stable group) continue to use the current stable version.
* Performance, stability, and user experience of the updated version closely monitored during the Canary phase.
* Helps identify issues or bugs early in the deployment process.
* Enables gathering feedback from a limited audience before full-scale rollout.
* If the Canary phase is successful, the changes are gradually expanded to a larger percentage of users or servers.
* If issues are detected, deployment can be halted or rolled back, minimizing widespread impact.
* Provides a controlled and cautious approach to deploying updates, reducing overall risk.