



A CLOUD GURU

Updating Elastic Beanstalk



Faye Ellis

TECHNICAL INSTRUCTOR

Several Options For Deployment Updates



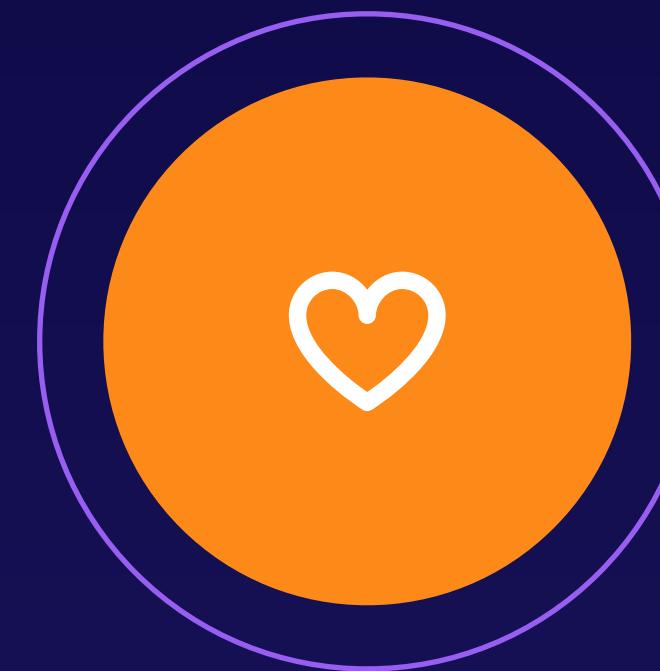
All at once

Deploys to all hosts concurrently.



Rolling

Deploys the new version in batches.



Rolling With Additional Batch

Launches an additional batch of instances. Then deploys the new version in batches.

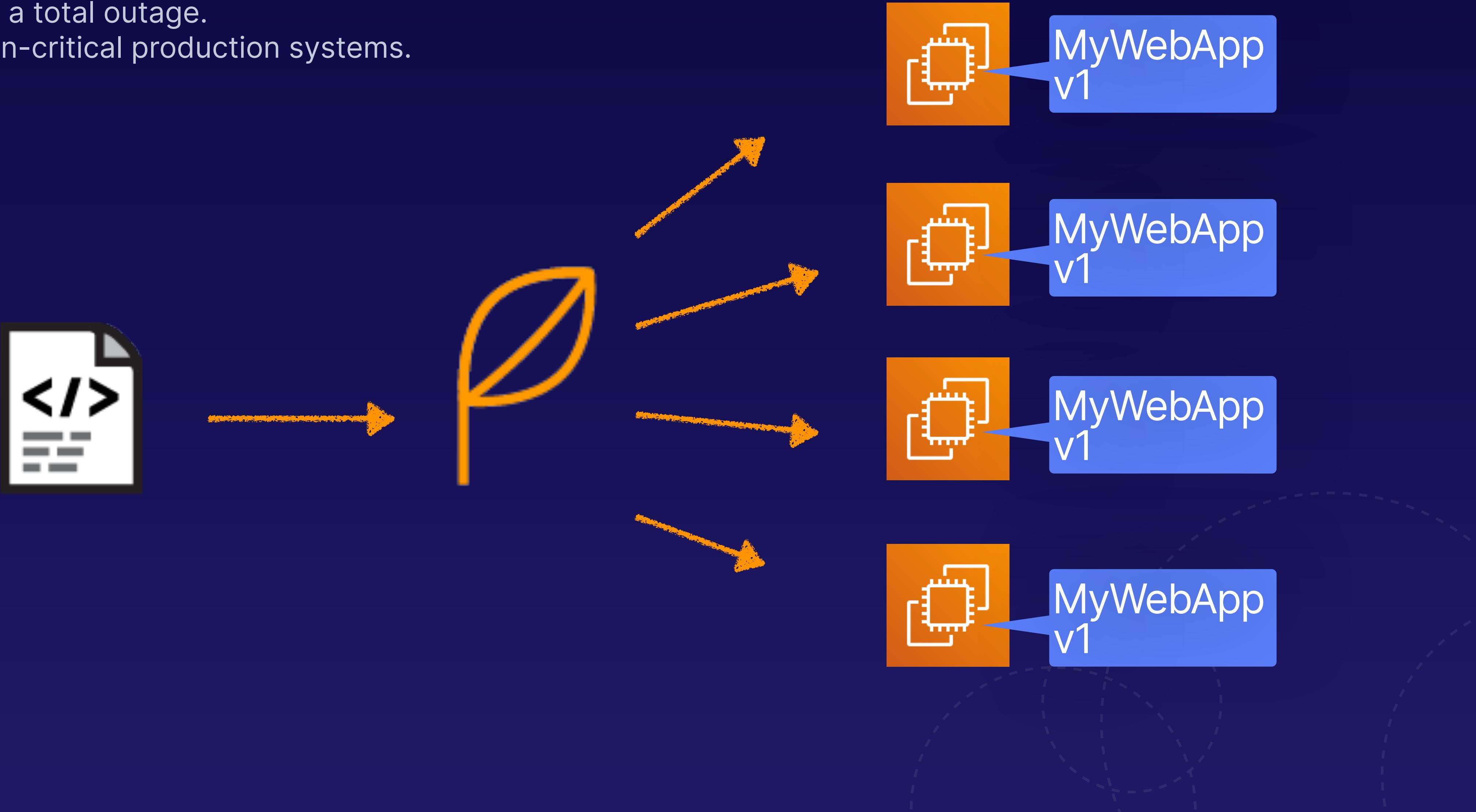


Immutable

Deploys the new version to a fresh group of instances before deleting the old instances.

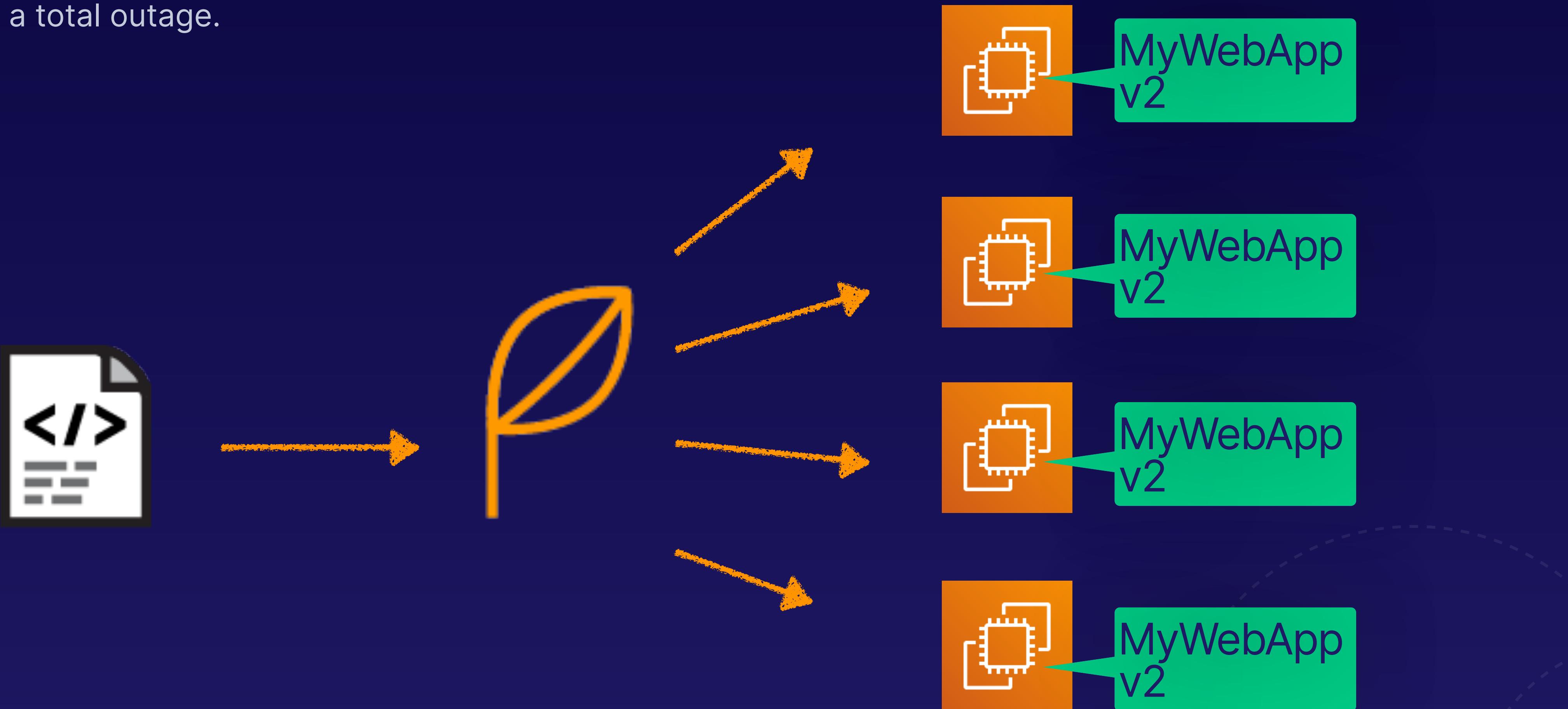
All at Once Deployment

Deploys to all instances simultaneously.
You will experience a total outage.
Not ideal for mission-critical production systems.



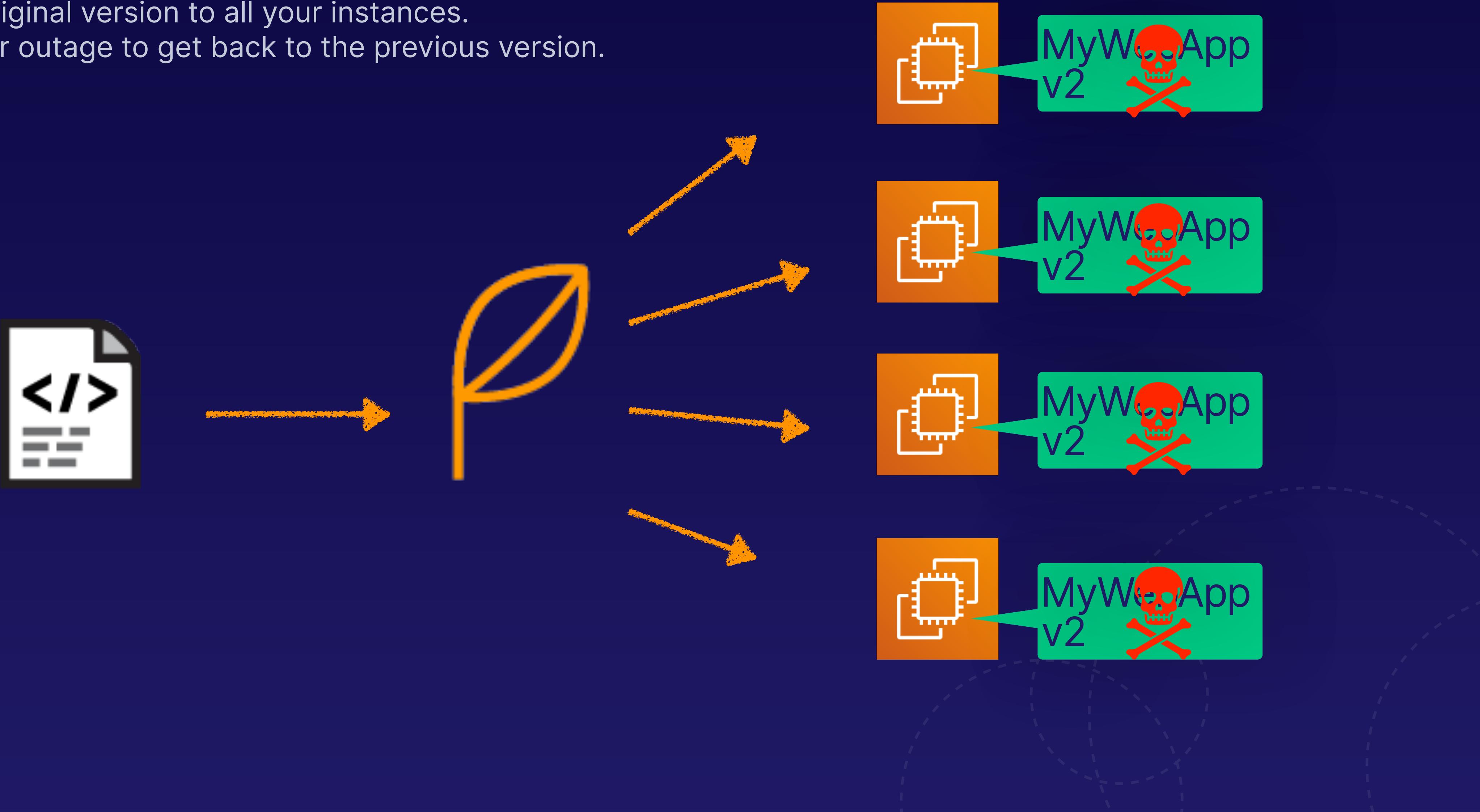
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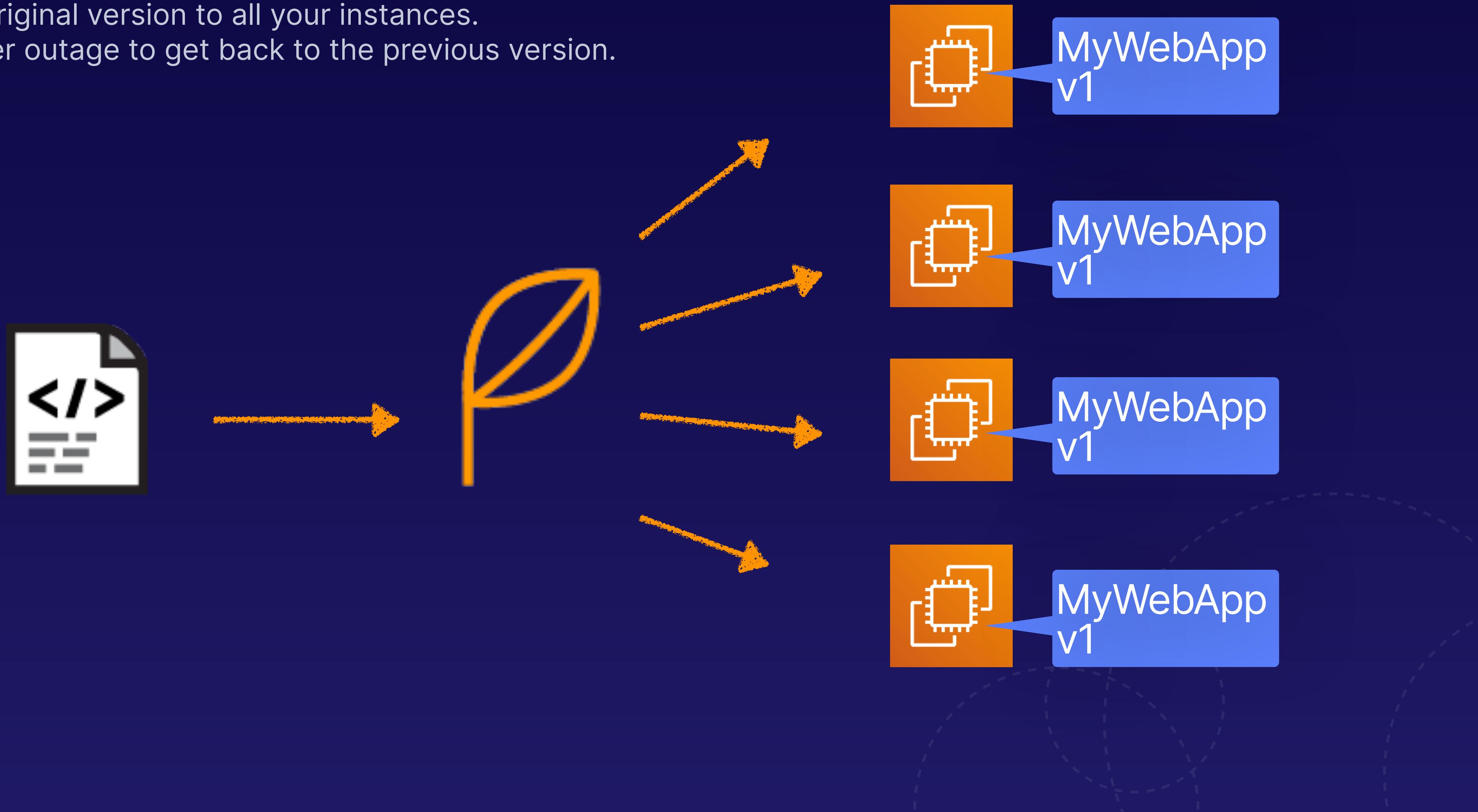
All at Once Deployment - Rolling Back

If the update fails, you need to roll back the changes by re-deploying the original version to all your instances. Resulting in another outage to get back to the previous version.



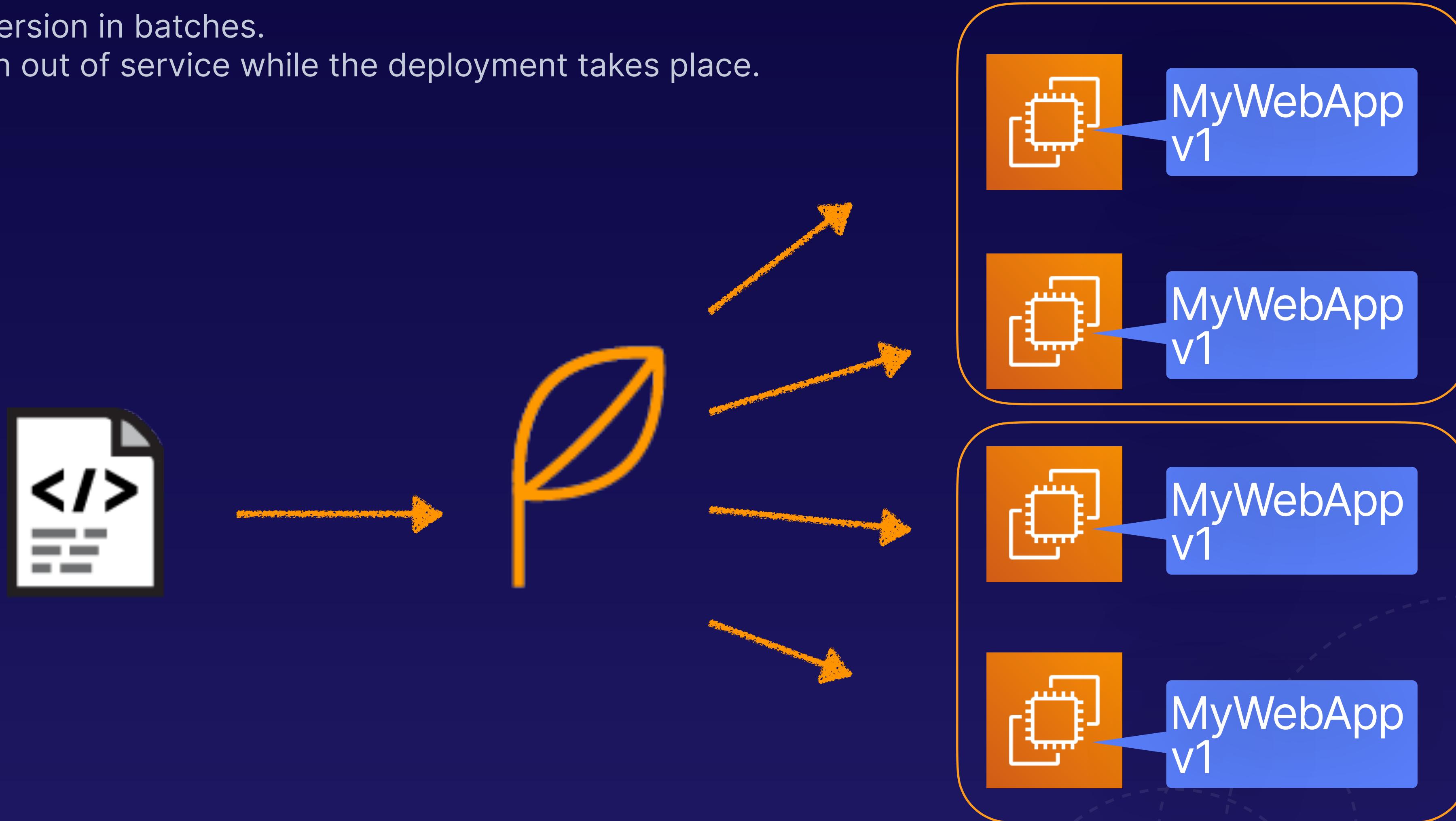
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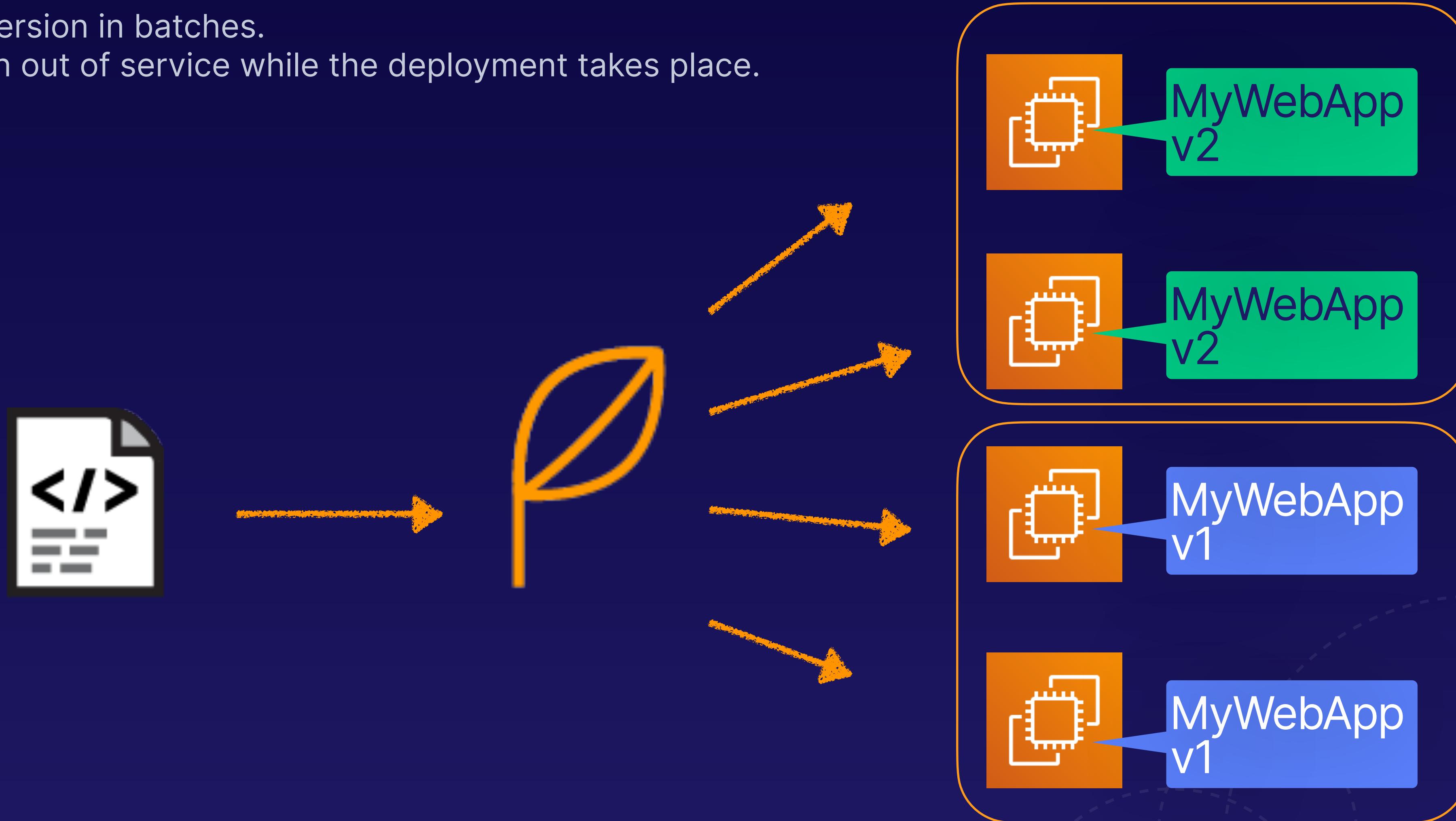
Rolling Deployment Policy

Deploys the new version in batches.
Each batch is taken out of service while the deployment takes place.



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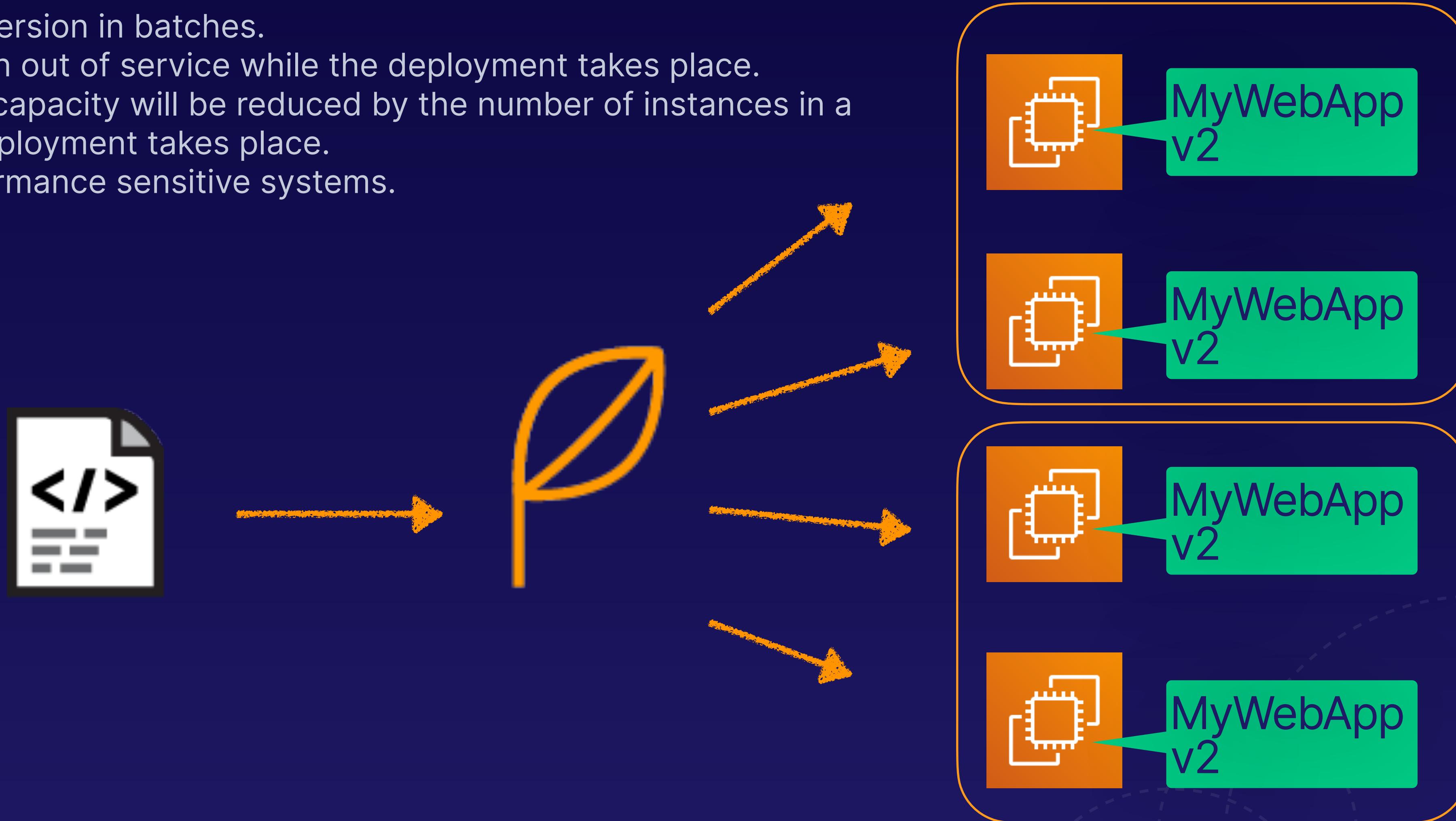
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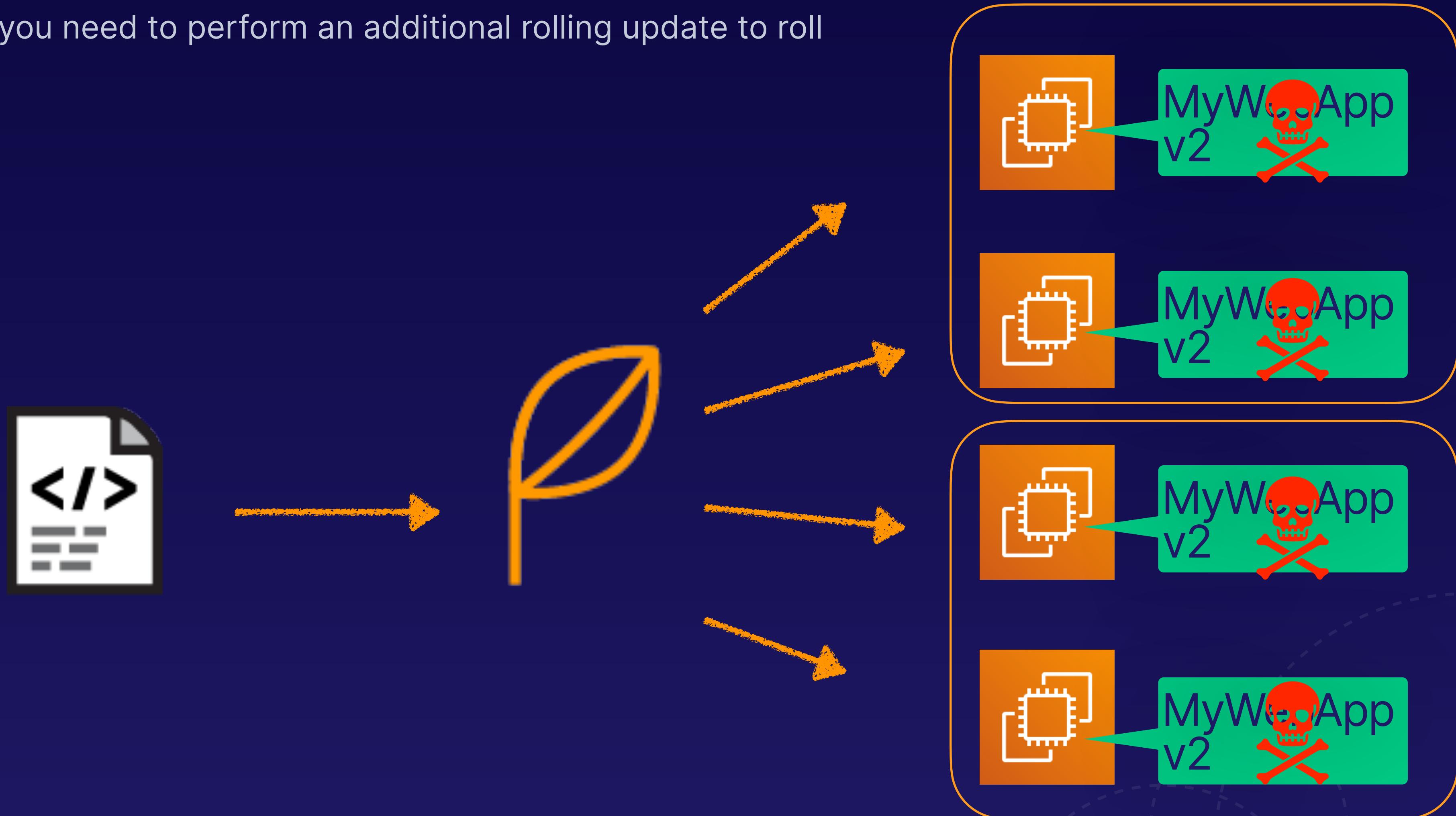
Your environment capacity will be reduced by the number of instances in a batch while the deployment takes place.

Not ideal for performance sensitive systems.



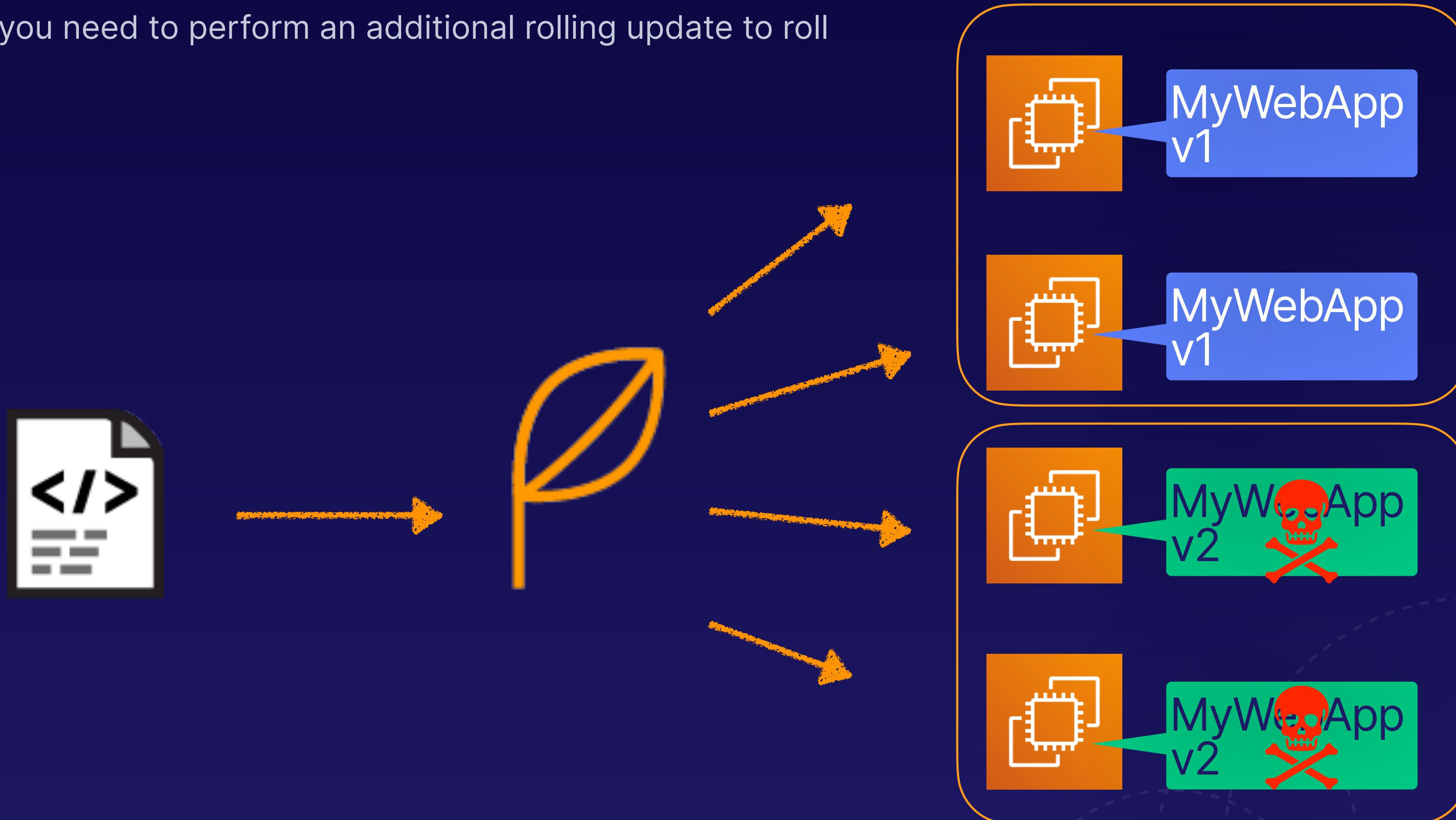
Rolling Deployment Policy - Rolling Back

If the update fails, you need to perform an additional rolling update to roll back the changes.



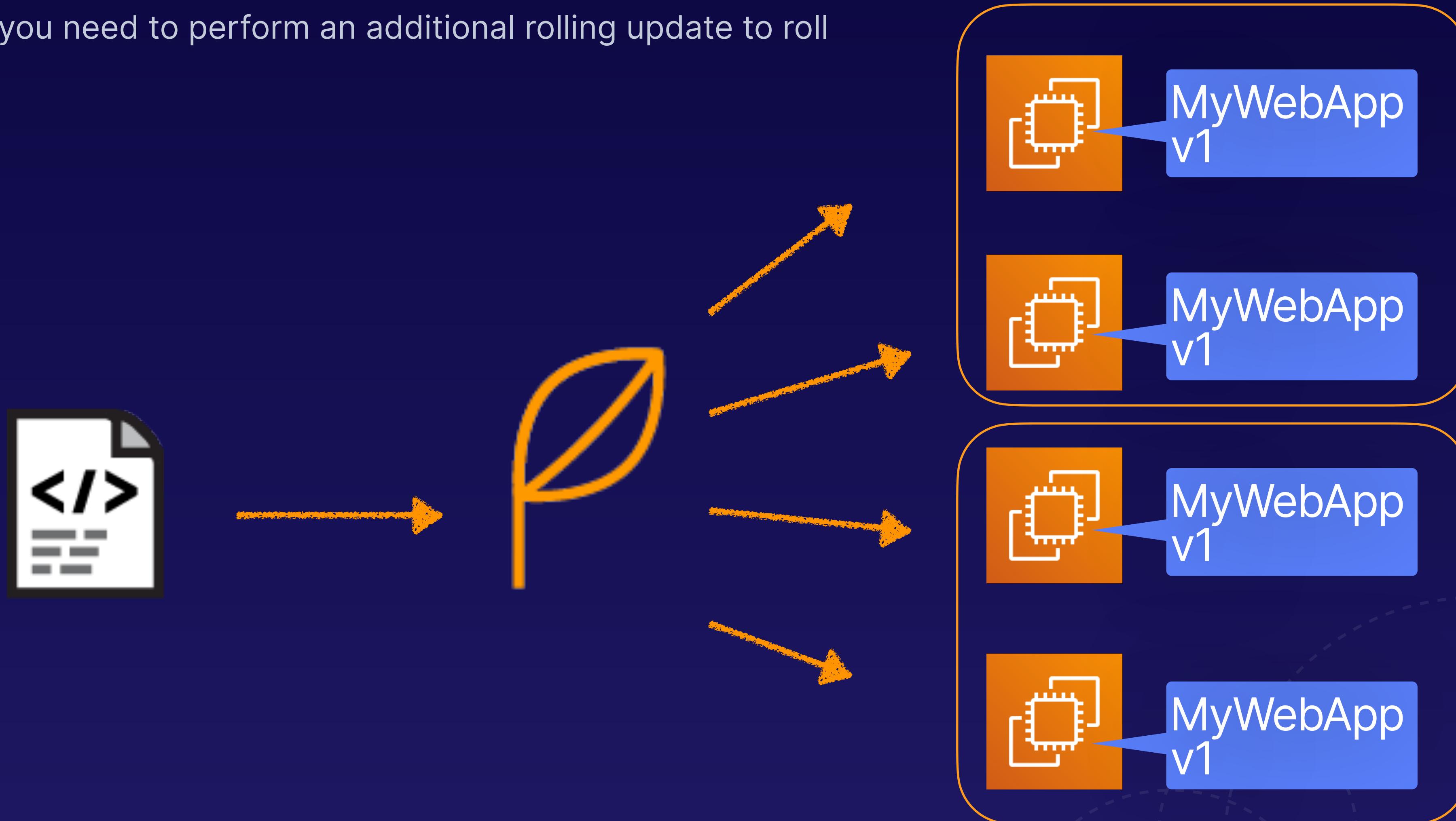
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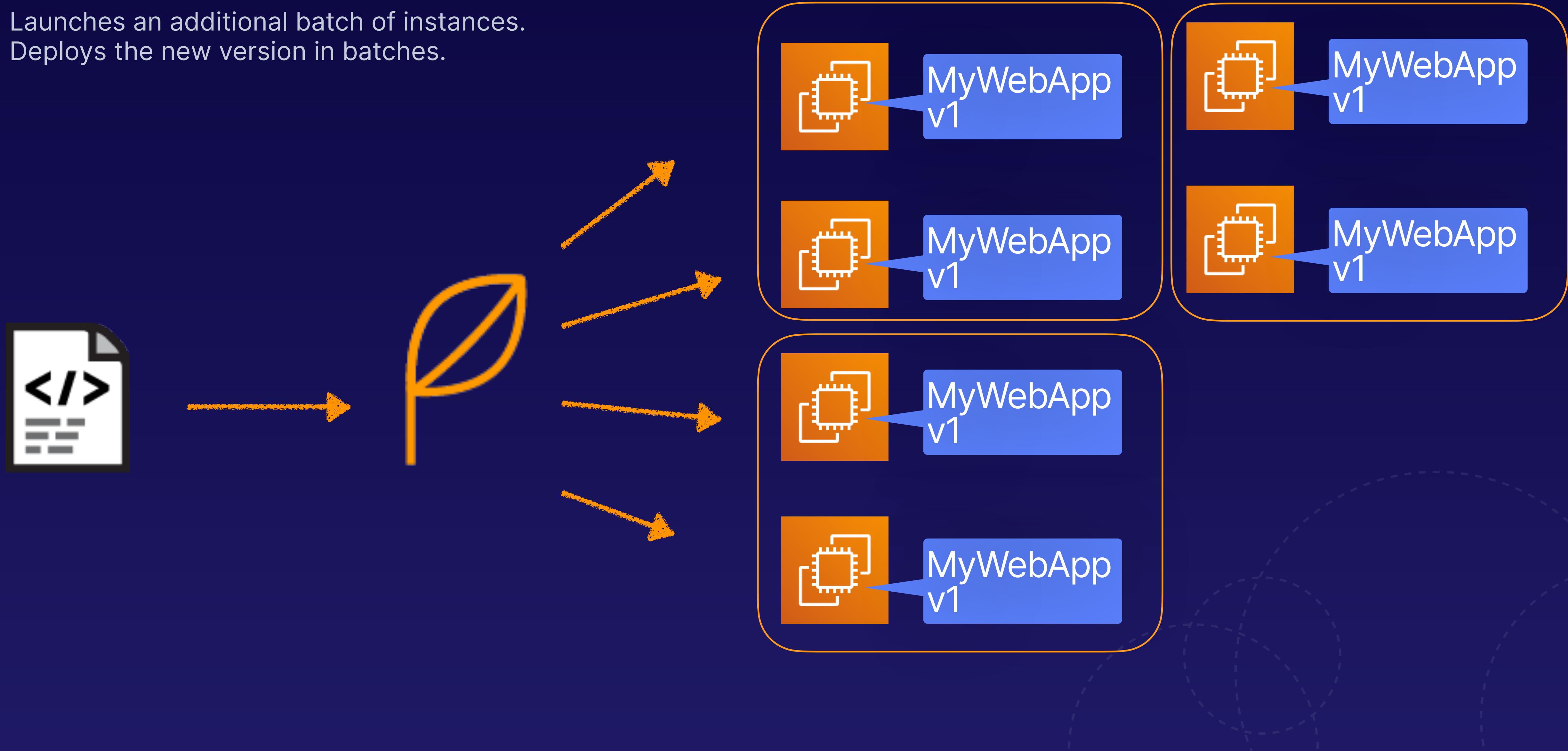
Rolling Deployment Policy - Rolling Back

If the update fails, you need to perform an additional rolling update to roll back the changes.



Rolling With Additional Batch

Launches an additional batch of instances.
Deploys the new version in batches.

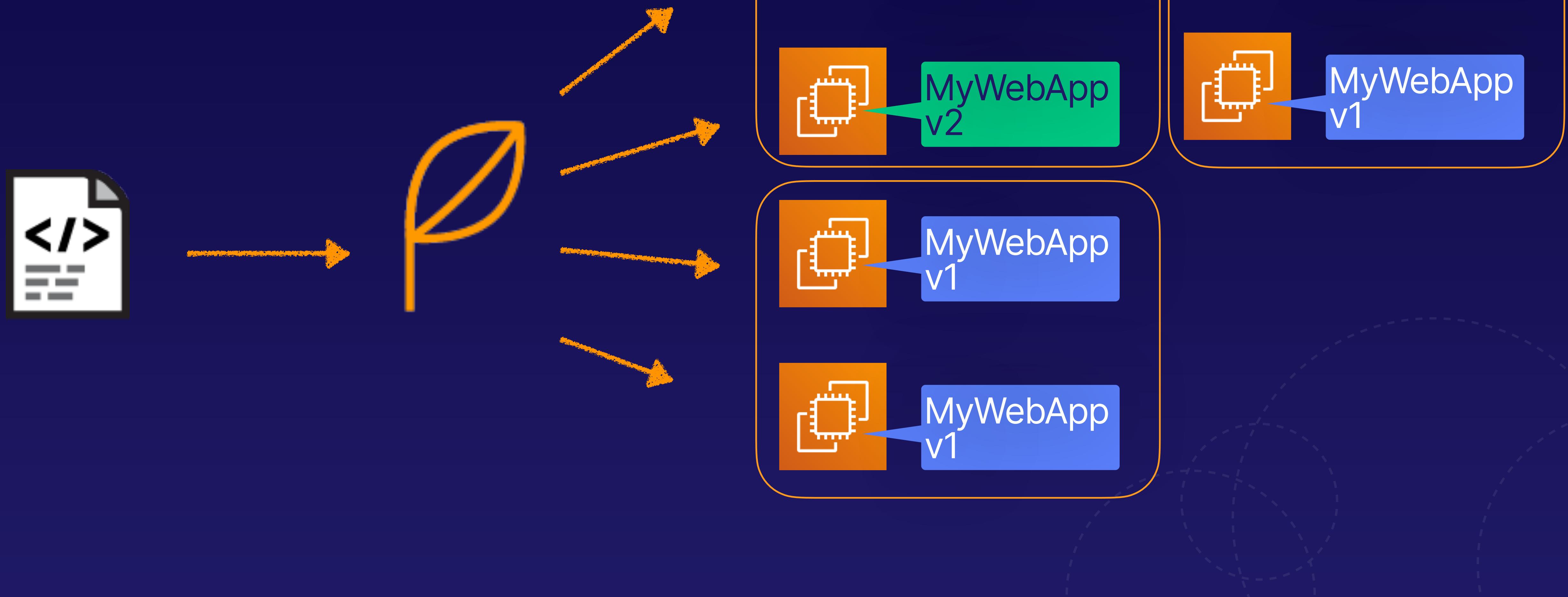


Rolling With Additional Batch

Launches an additional batch of instances.

Deploys the new version in batches.

Maintains full capacity throughout the deployment.

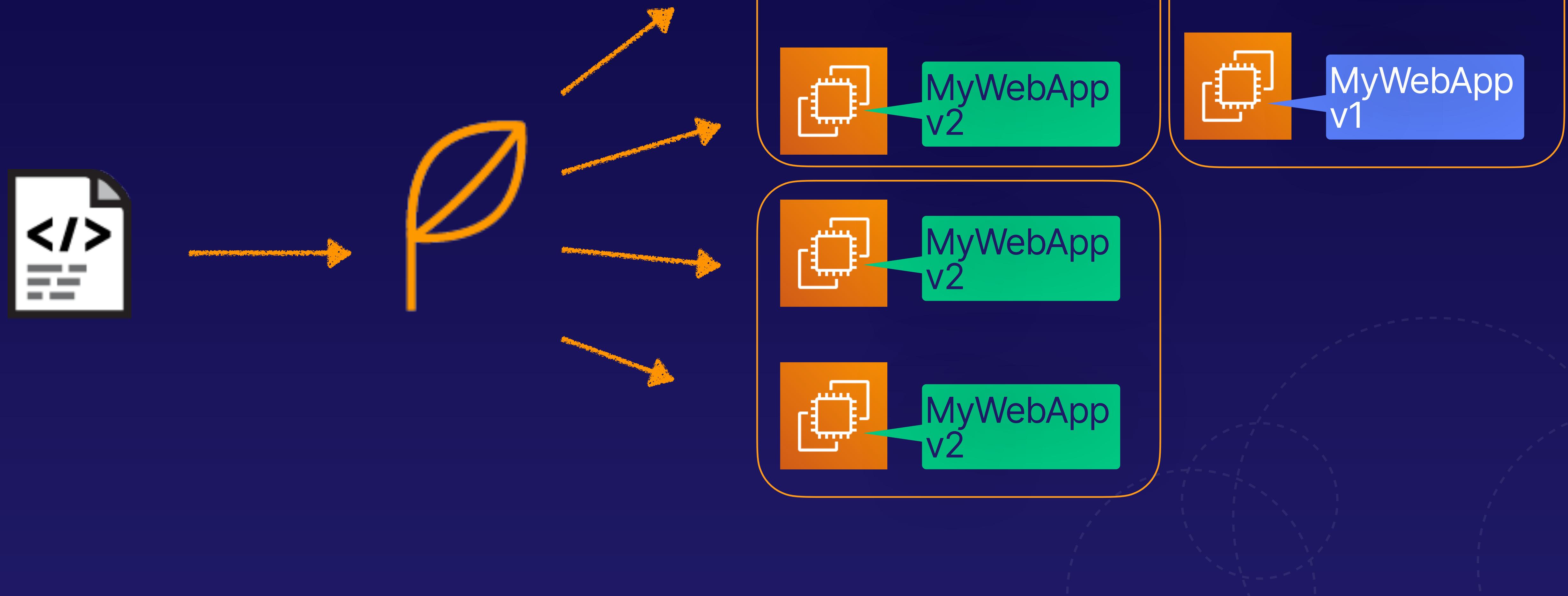


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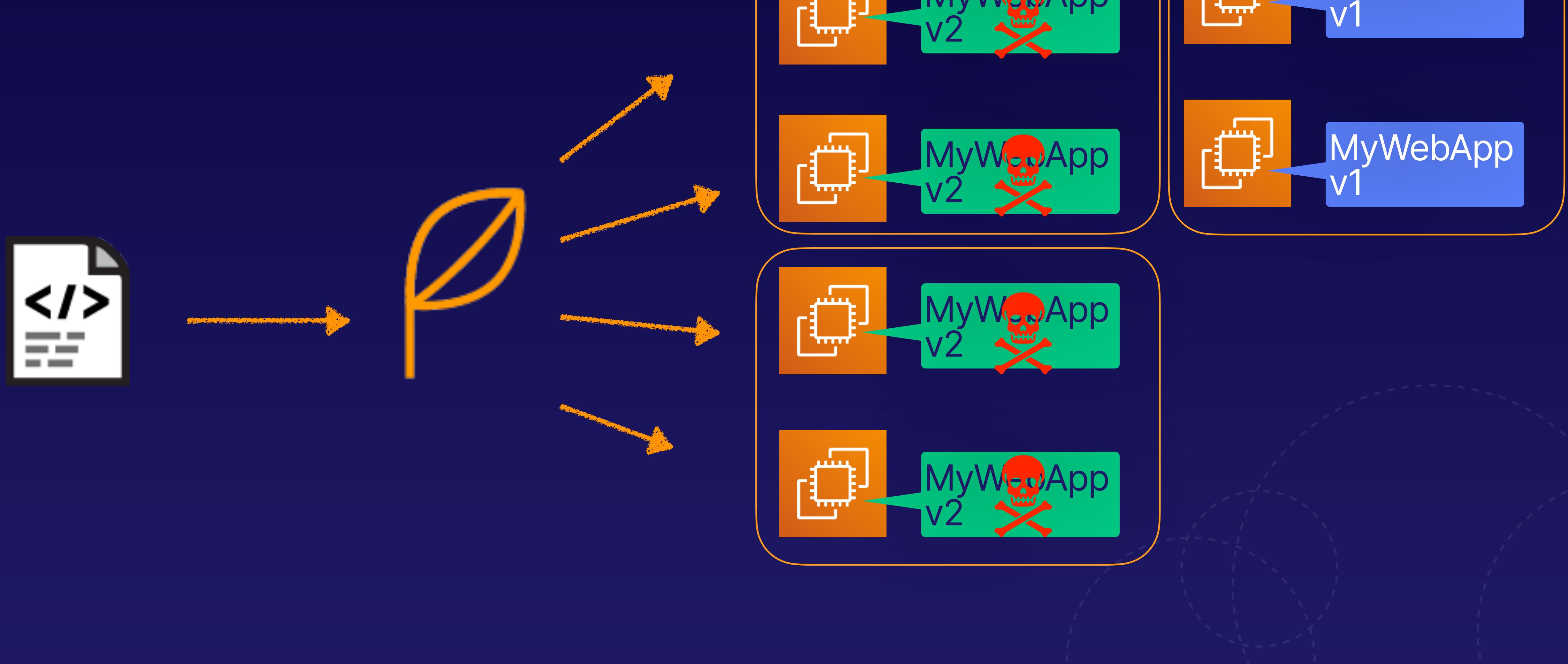
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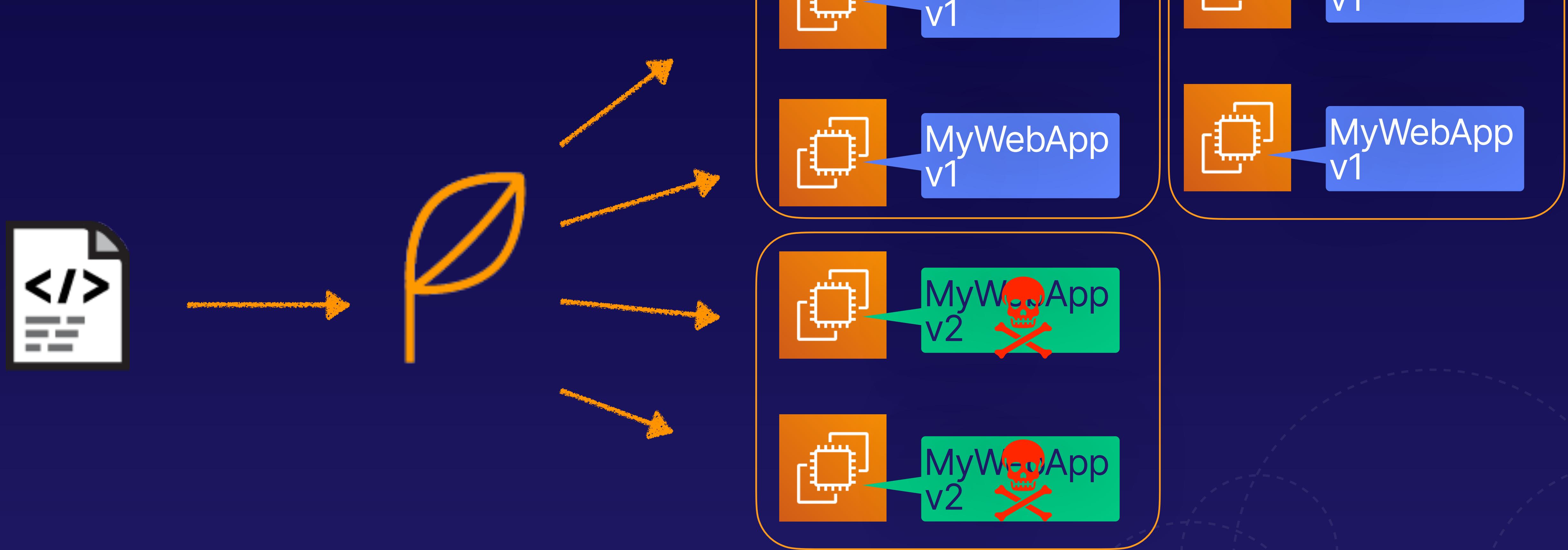
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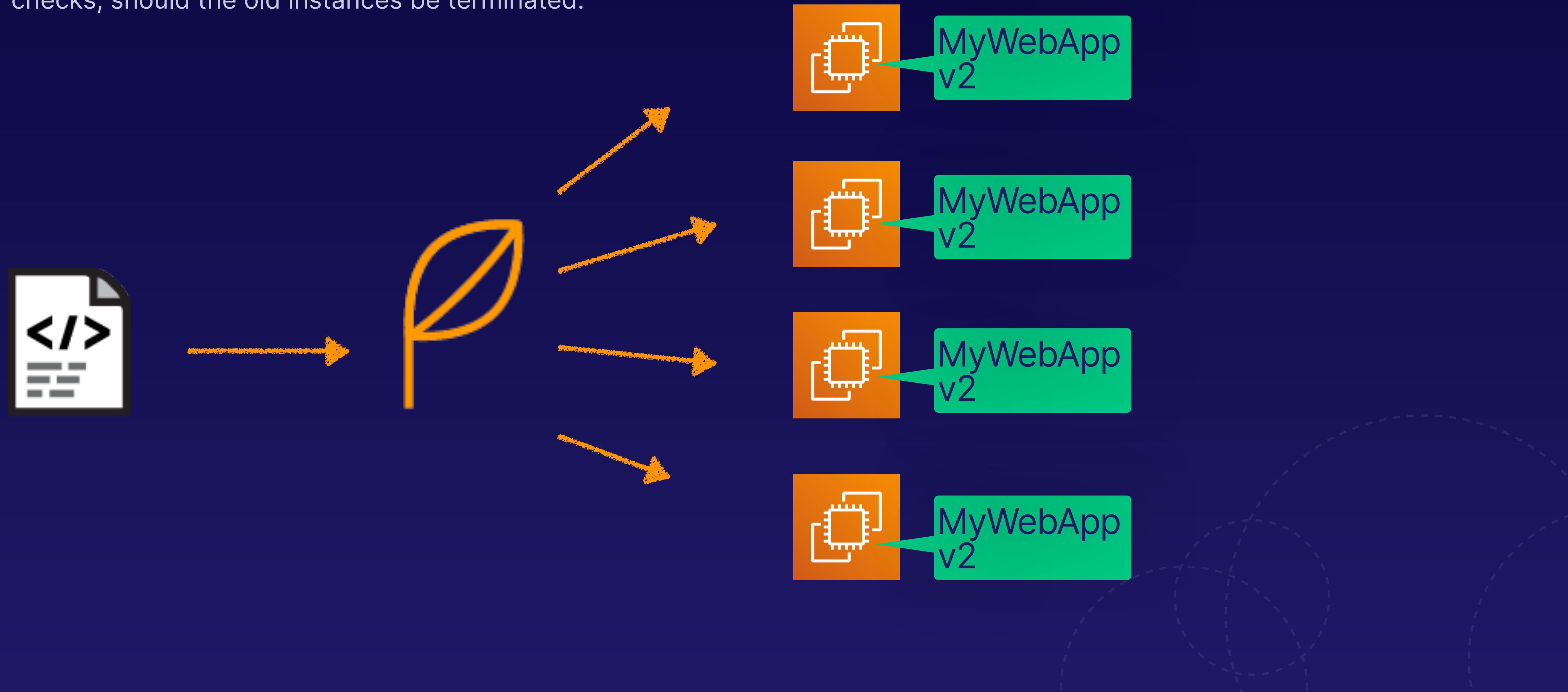
Immutable Deployments

Deploys the new version to a fresh group of instances.



Immutable Deployments

Only when the new instances pass their health checks, should the old instances be terminated.



Immutable Deployments - Rolling Back

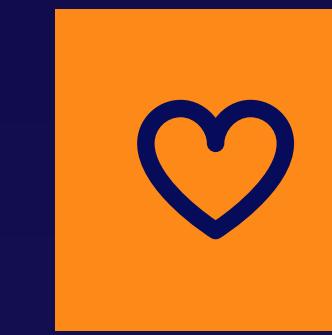
If a deployment fails, just delete the new instances.
This is the preferred approach for mission critical systems.





All at Once

Involves a service interruption.
Rolling back, requires a further All at Once update.



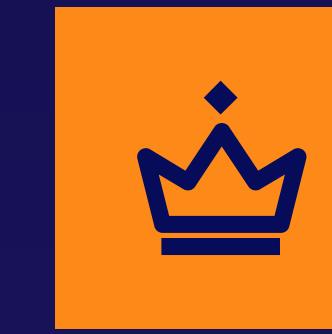
Rolling with Additional Batch

Maintains full capacity.
Rolling back, requires a further rolling update.



Rolling

Reduced capacity during deployment.
Rolling back requires a further rolling update.



Immutable

Maintains full capacity.
To roll back, delete the new instances.
Preferred option for mission critical production systems.