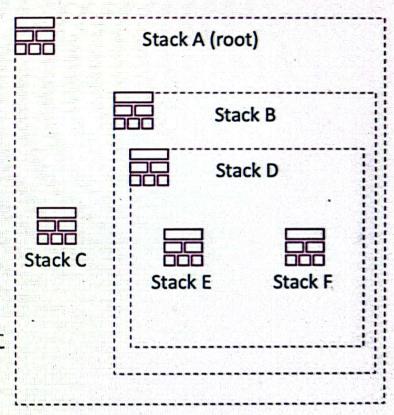
Nested Stacks Overview

- Nested stacks are stacks as part of other stacks
- They allow you to isolate repeated patterns / common components in separate stacks and call them from other stacks
- Example:
 - Load Balancer configuration that is re-used
 - · Security Group that is re-used
- Nested stacks are considered best practice
- To update a nested stack, always update the parent (root stack)
- Nested stacks can have nested stacks themselves!



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Nested Stacks Update

- To update a nested stack....
- Ensure the updated nested stacks are uploaded onto S3 first
- Then re-upload your root stack

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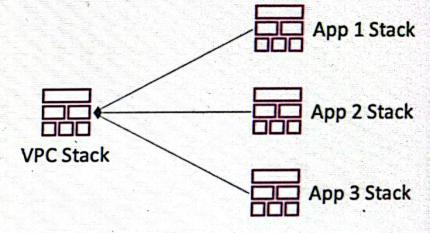
Cross Stacks vs Nested Stacks

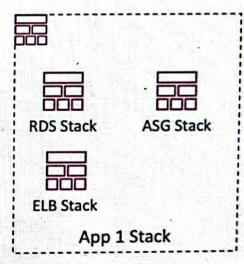
Cross Stacks

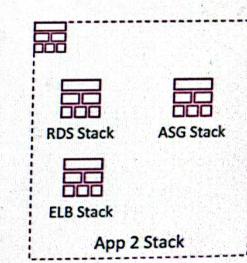
- Helpful when stacks have different lifecycles
- Use Outputs Export and Fn::ImportValue
- When you need to pass export values to many stacks (VPC ld, etc...)

Nested Stacks

- Helpful when components must be re-used
- Ex: re-use how to properly configure an Application Load Balancer
- The nested stack only is important to the higher-level stack (it's not shared)







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Closing Comments on Nested Stacks

Closing Comments on Nested Stacks

Great nested stacks example at https://github.com/awssamples/ecs-refarch-cloudformation/blob/master/master.yaml

Exported Stack Output Values vs. Using Nested Stacks:

- If you have a central resource that is shared between many different other stacks, use Exported Stack Output Values
- If you need other stacks to be updated right away if a central resource is updated, use Exported Stack Output Values
- If the resources can be dedicated to one stack only and must be re-usable pieces of code, use Nested Stacks
- Note that you will need to update each Root stack manually in case of Nested stack updated