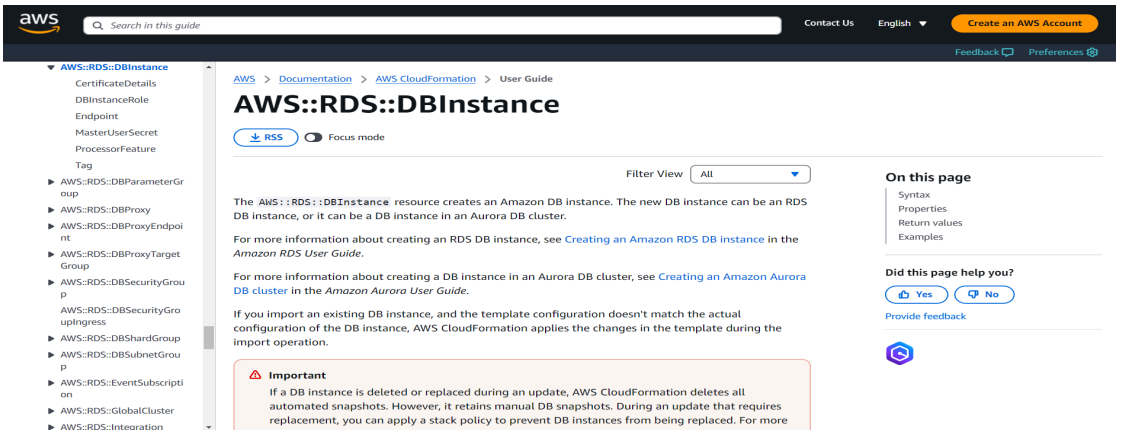
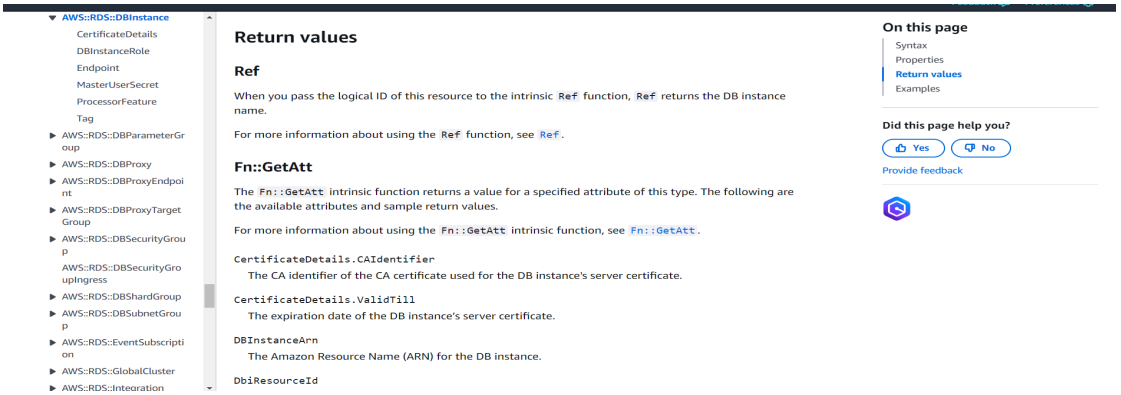
Referencing resource attributes using Fn::GetAtt Function

Start by locating the template in the GitHub repository, saving it locally, and opening it in VS Code. Review the AWS CloudFormation documentation for RDS instance return values, particularly Endpoint.Address and Endpoint.Port. Open the template, navigate to the Outputs section, and add a new output (MasterDbEndpoint) using Fn::GetAtt to reference the Endpoint.Address attribute of the MasterDbInstance. Save and upload the updated template to AWS CloudFormation Console. Create a stack and configure parameters like VPC, DB subnets, and environment. Verify the output in the console, then delete the stack to clean up resources.

Activity

1. Find the template files in our GitHub repository under the same name as the heading for easy access and edits. Find and Save the attached template locally, open it in VS Code for edits.
2. Review the AWS CloudFormation documentation for RDS instance return values and attributes.

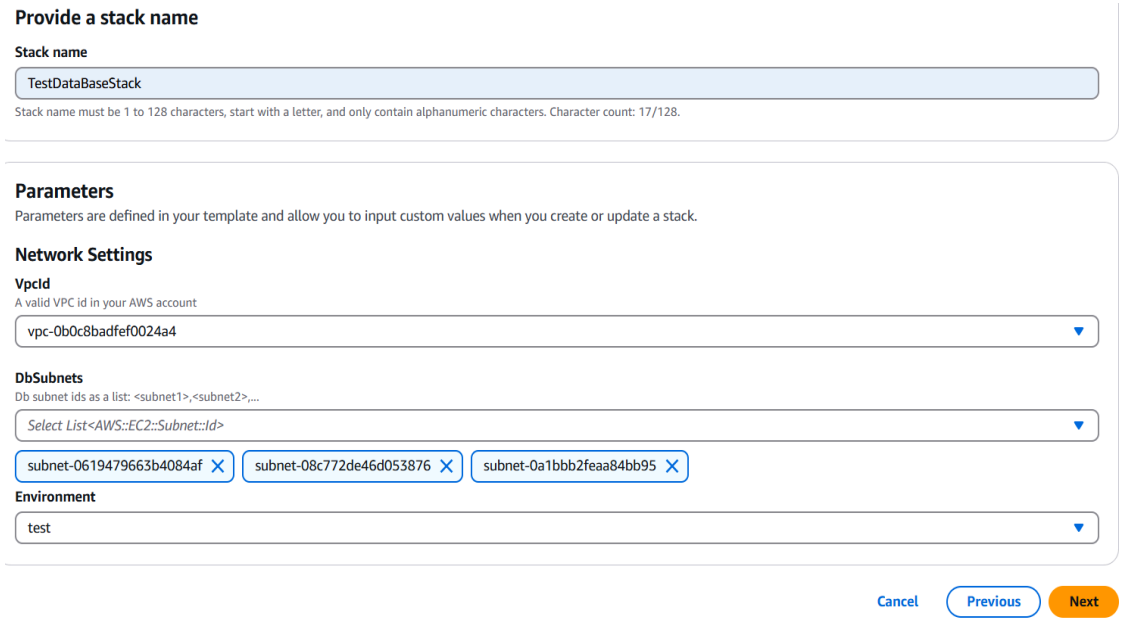




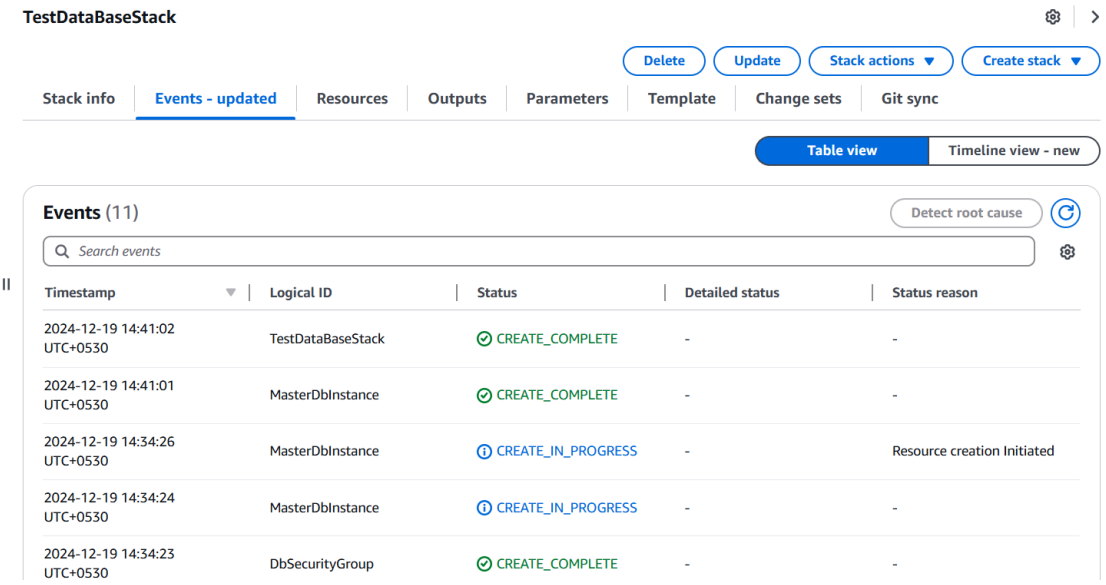
3. Identify the additional attributes Endpoint.Address and Endpoint.Port accessible with Fn::GetAtt.
4. Open the latest database stack template and locate the Outputs section. Add a new output named MasterDbEndpoint to reference the endpoint address. Use the Fn::GetAtt function with MasterDbInstance as the logical ID and Endpoint.Address as the attribute. Optionally, add a description like "Connection endpoint of the master database instance."

```
73
74  Outputs:
75    MasterDbId:
76      Value: !Ref MasterDbInstance
77      Description: Master database instance identifier
78    MasterDbEndpoint:
79      Value: !GetAtt [ MasterDbInstance, Endpoint.Address ]
80      Description: The connection endpoint of the master database instance
```

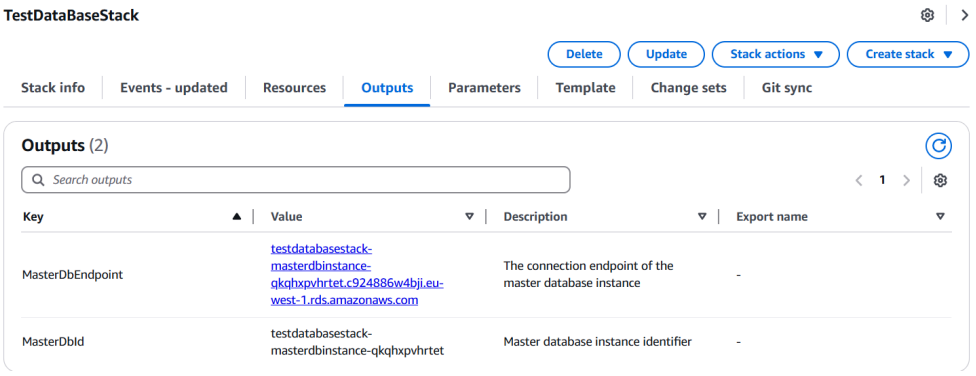
5. Save the template and upload it to AWS CloudFormation Console using the 'Create stack' option.
6. Name the stack (e.g., TestDatabaseStack) and configure parameters such as VPC, DB subnets, and environment. Proceed through the wizard to the 'Review' page and click 'Create stack.'



7. Wait for the stack creation to complete, then check the Outputs tab for the endpoint address.



8. Verify the value and description of the output.



8. Delete the stack to clean up resources after verifying the output.