

Gerenciando configurações com Parameter Store e efetuando o deploy com CloudFormation

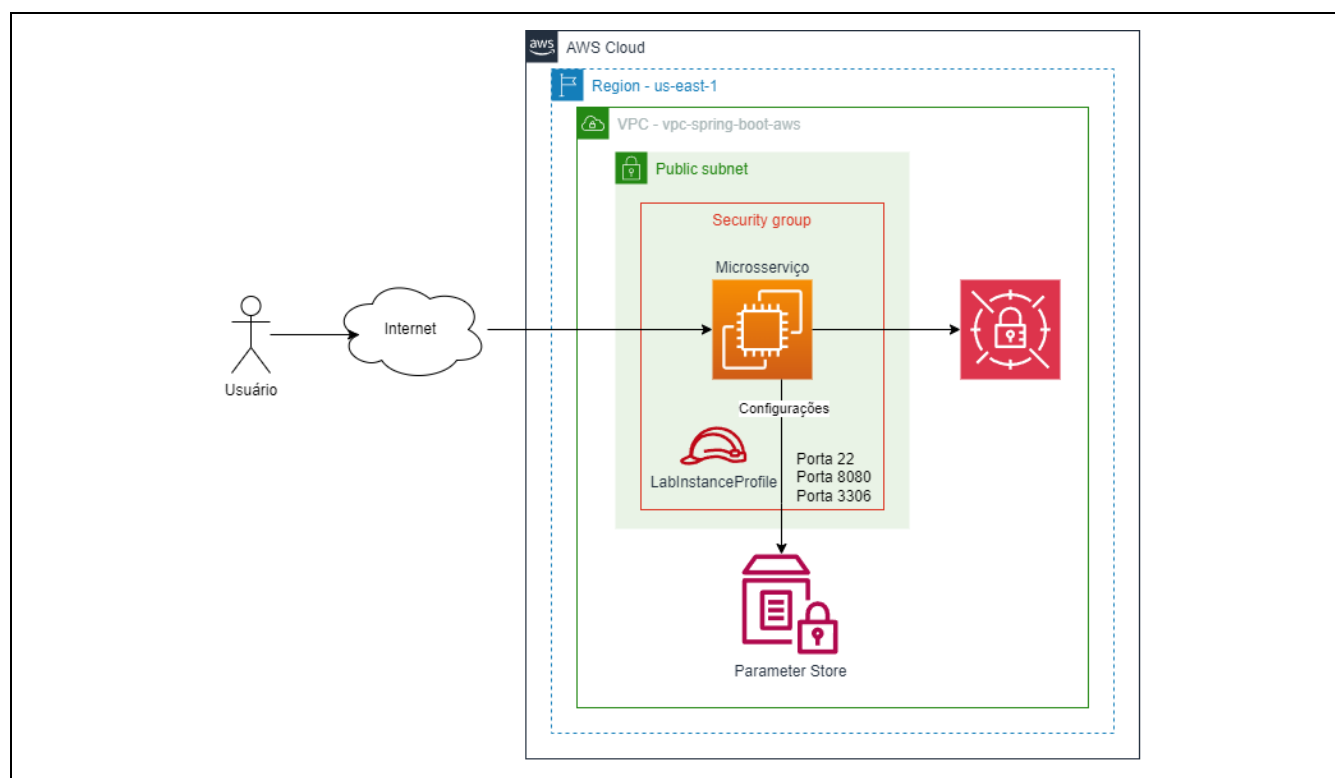


Prof. Thomás da Costa - <https://thomasdacosta.com.br>

Objetivo:

Implantar os parâmetros de configuração do microserviço em Spring Boot usando um script do CloudFormation e o Parameter Store.

Desenho da Solução:

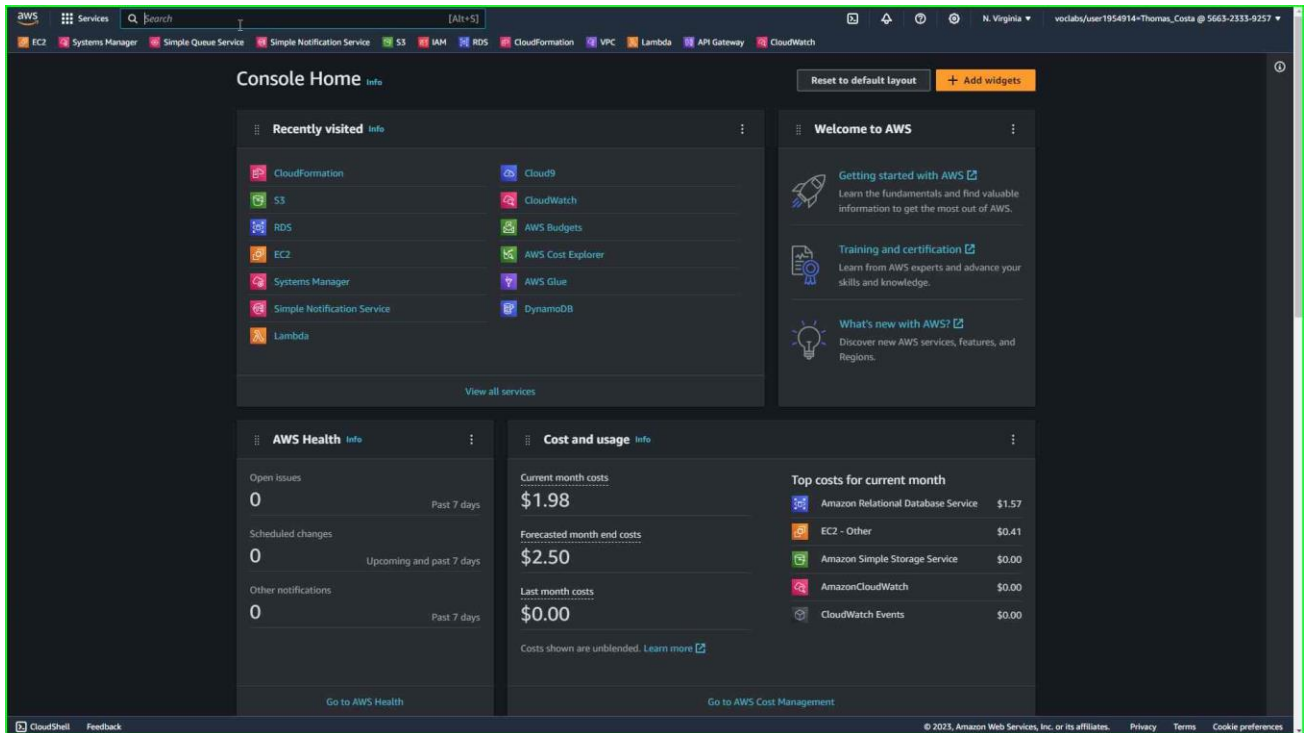


Premissas:

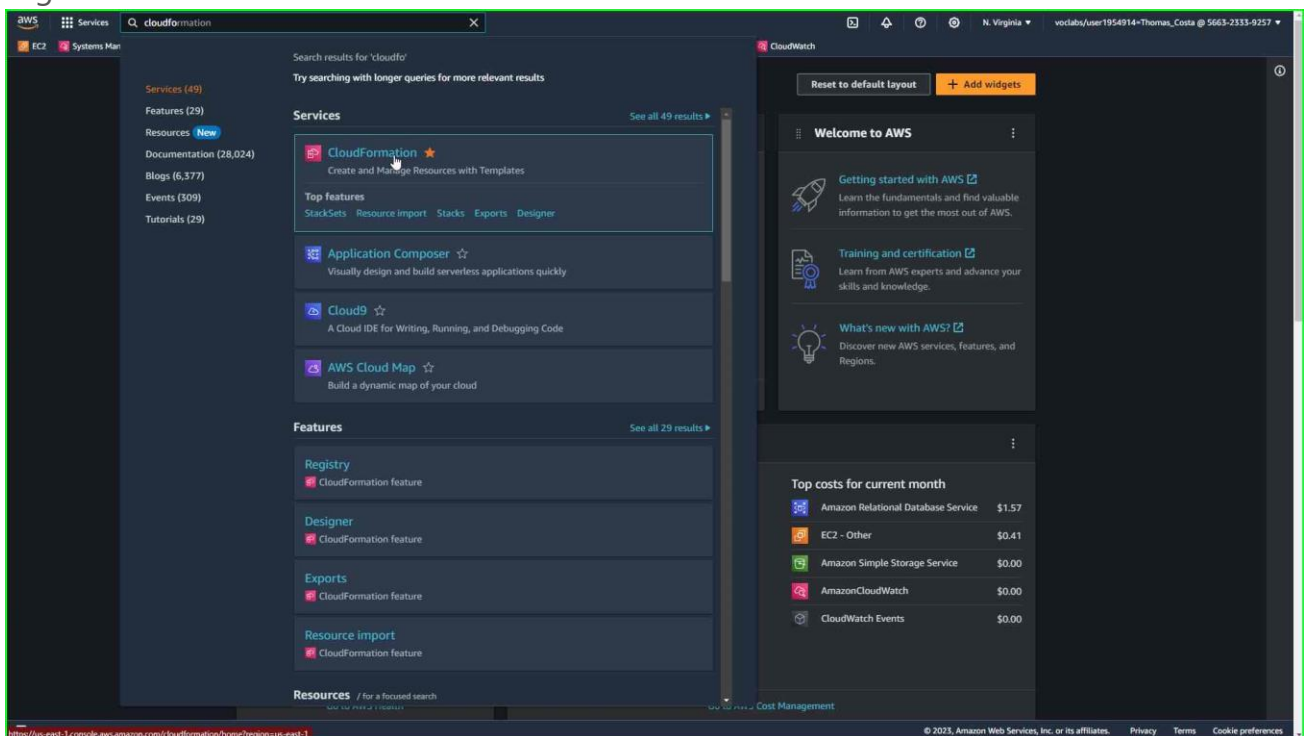
- Nenhuma premissa para esse tutorial.

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Entre na opção "Search":

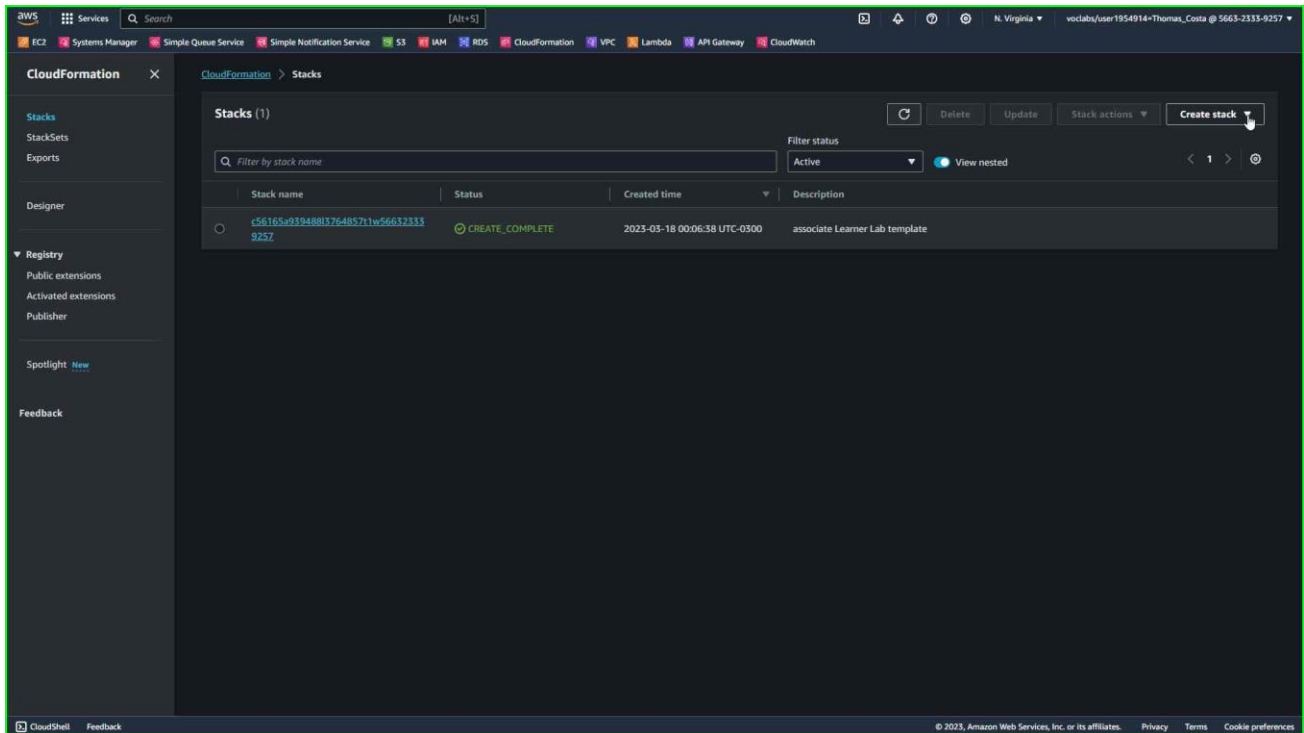


Digite "CloudFormation":

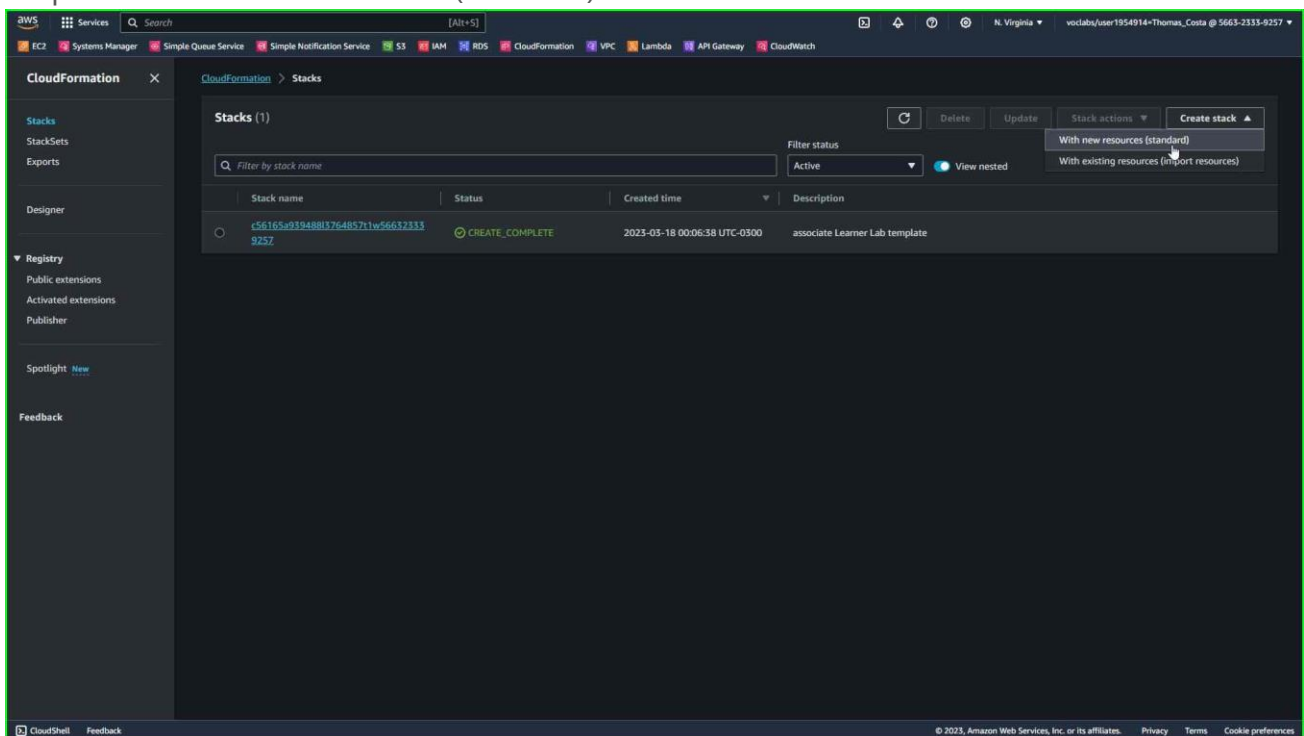


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Clique em "Create stack":

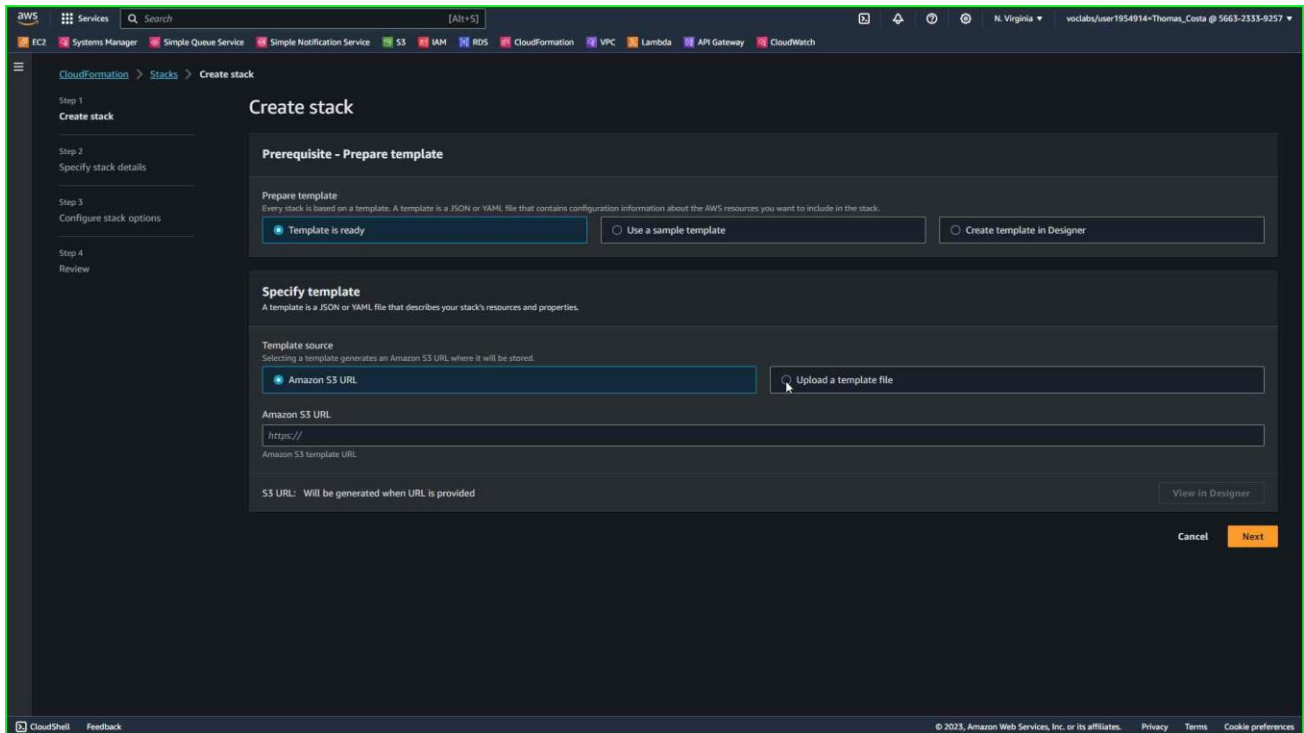


Clique em "With new resources (standard)":

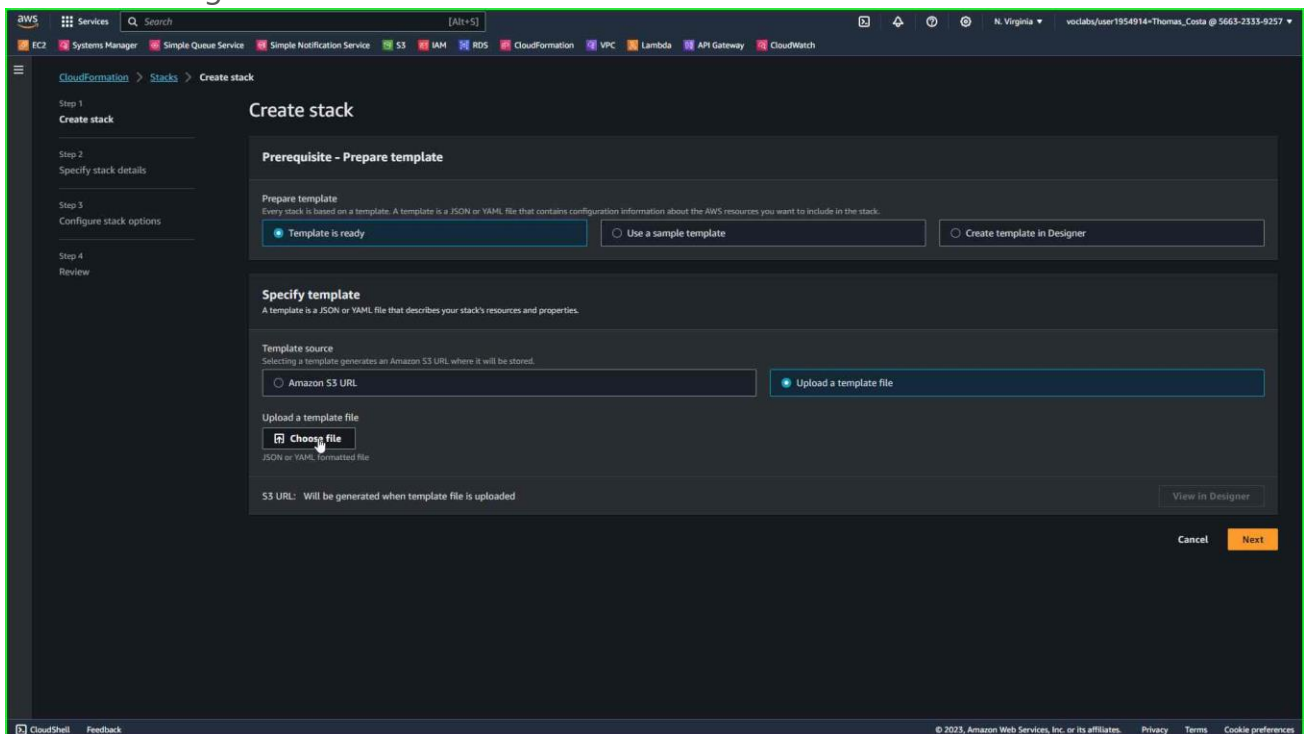


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Clique em “Upload a template file”:

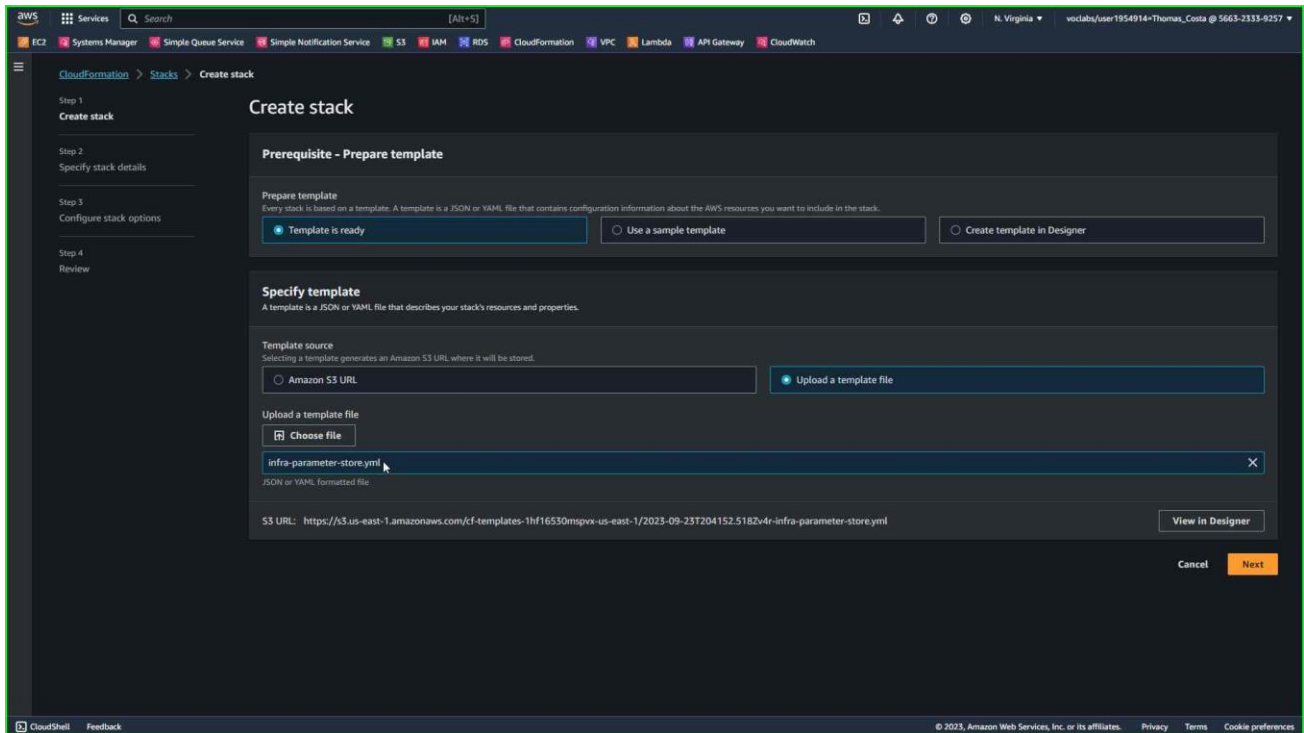


Crie um arquivo com extensão .yml do link https://github.com/thomasdacosta/aula-aws/blob/main/aula_09_configuracao/infra-parameter-store.yml e faça o upload clicando no link da imagem abaixo:

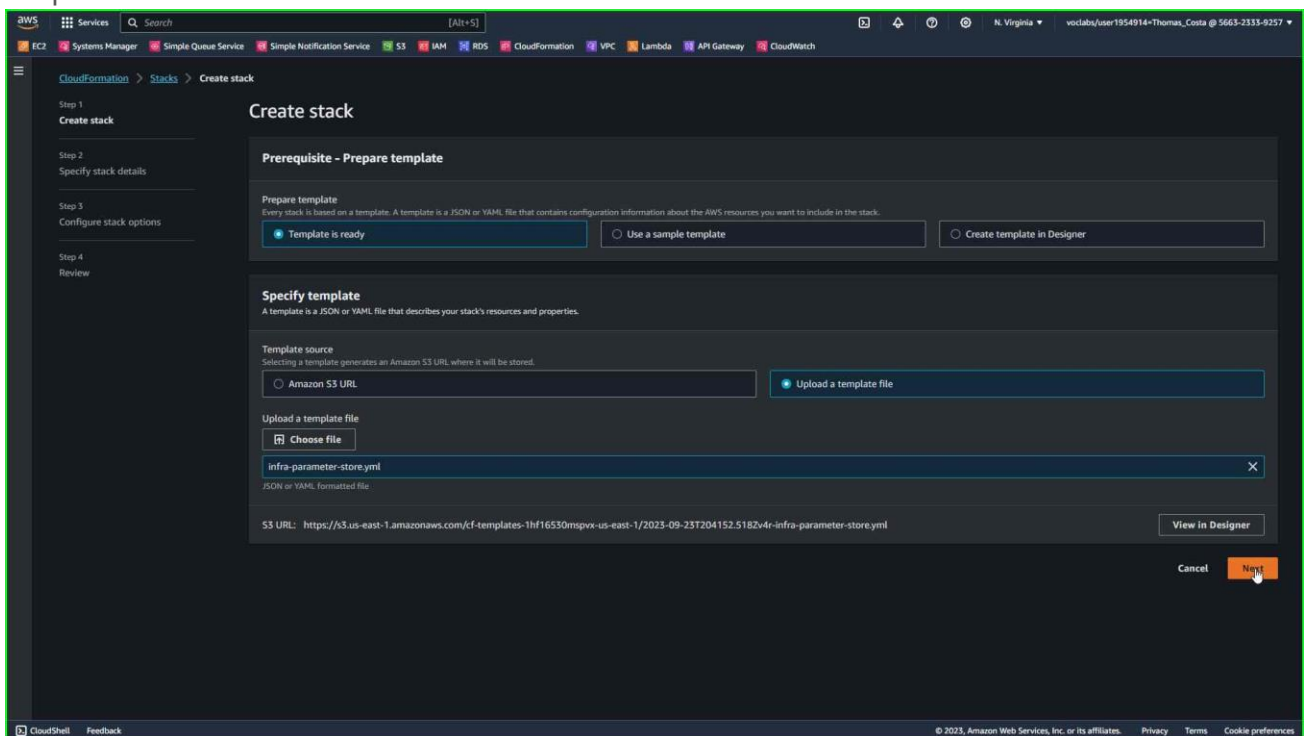


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Arquivo carregado com sucesso:



Clique no botão "Next":



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Coloque no nome da stack conforme imagem abaixo:

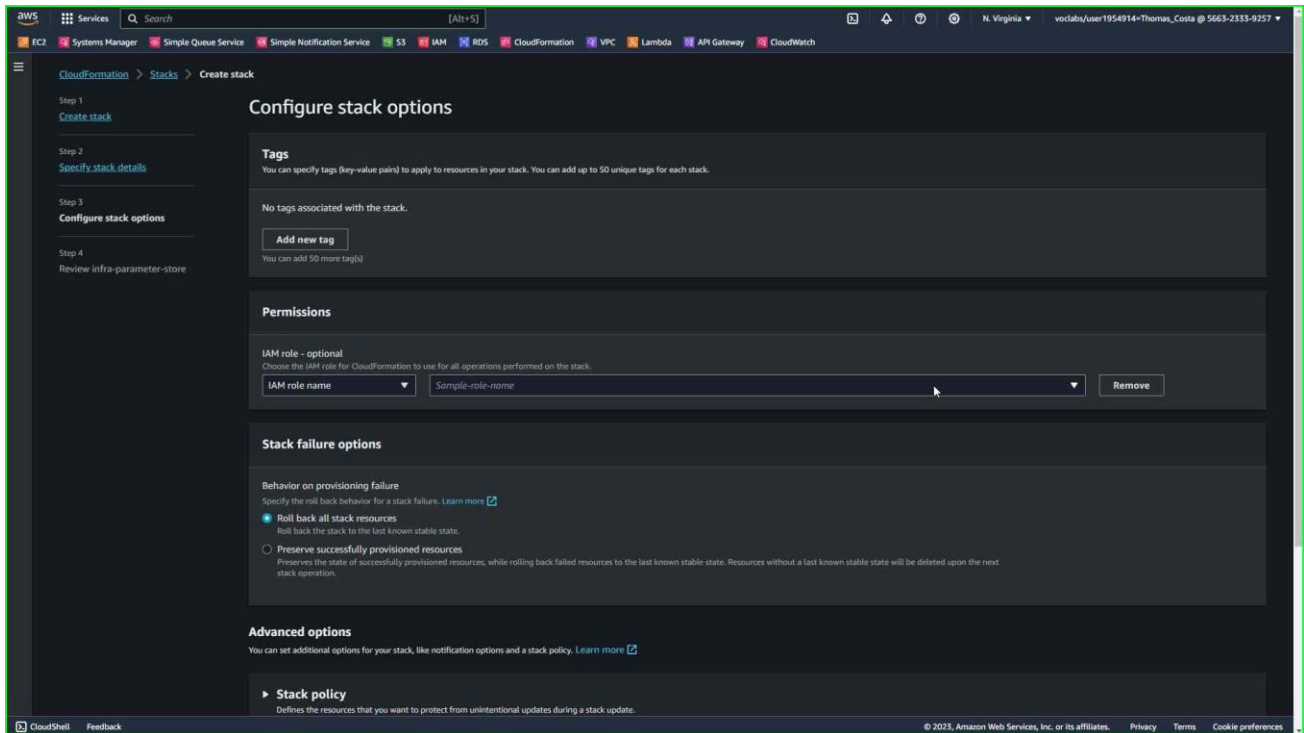
The screenshot shows the AWS CloudFormation console interface. On the left, a sidebar lists the steps: Step 1: Create stack, Step 2: Specify stack details (selected), Step 3: Configure stack options, and Step 4: Review infra-parameter-store. The main area is titled 'Specify stack details'. It contains a 'Stack name' section with a text input field containing 'infra-parameter-store'. Below this, a 'Parameters' section indicates 'No parameters' are defined in the template. At the bottom right, there are three buttons: 'Cancel', 'Previous', and 'Next'. The 'Next' button is highlighted in orange, indicating it is the next step in the process.

Clique no botão "Next":

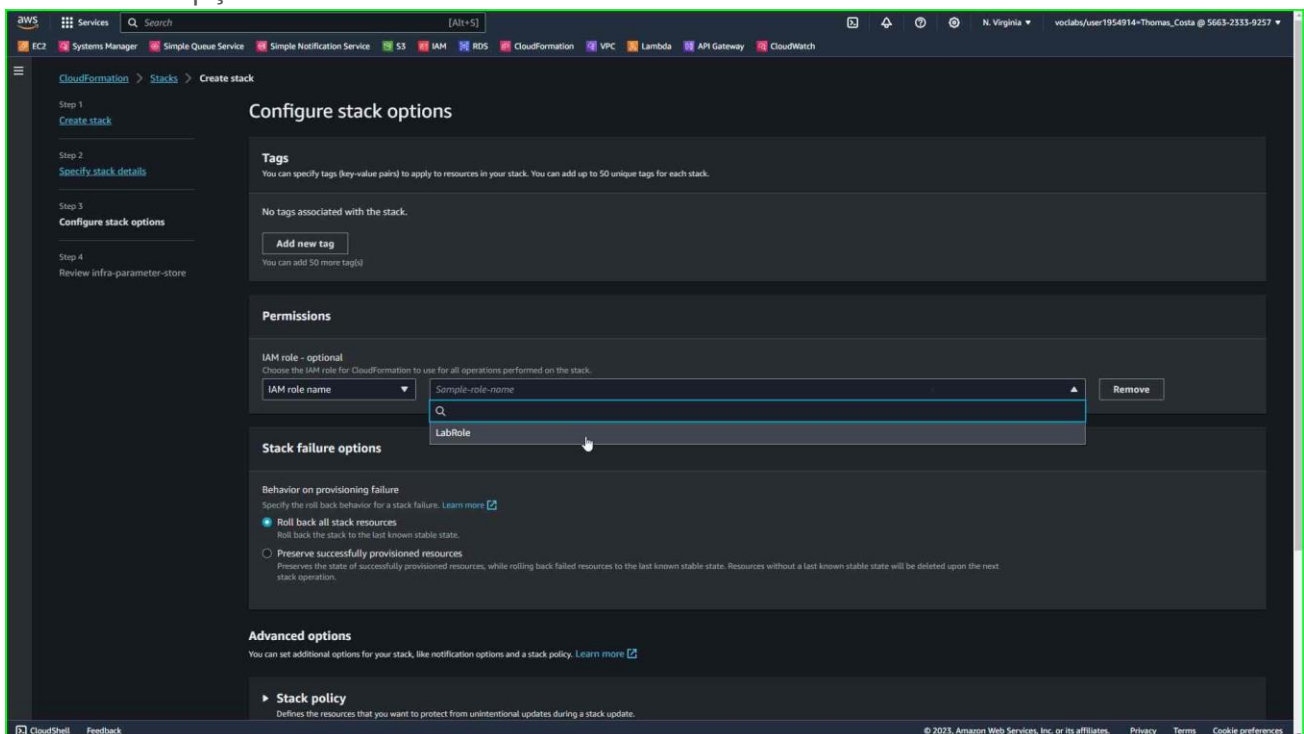
This screenshot is identical to the one above, showing the 'Specify stack details' step in the AWS CloudFormation console. The 'Stack name' is 'infra-parameter-store' and there are no parameters defined. The 'Next' button is highlighted in orange. A mouse cursor is visible over the 'Next' button, indicating the user is about to click it to proceed to the next step.

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Selecione o combo da imagem abaixo:



Selecione a opção "LabRole":



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Opção selecionada:

The screenshot shows the AWS CloudFormation console in the 'Configure stack options' step. The left sidebar lists the steps: Step 1: Create stack, Step 2: Specify stack details, Step 3: Configure stack options (selected), and Step 4: Review infra-parameter-store. The main content area is divided into three sections: Tags, Permissions, and Stack failure options. The Tags section shows 'No tags associated with the stack.' with an 'Add new tag' button. The Permissions section shows an 'IAM role - optional' dropdown set to 'LabRole' with a 'Remove' button. A warning message states: 'AWS CloudFormation will use this role for all stack operations. Other users that have permissions to operate on this stack will be able to use this role, even if they don't have permission to pass it. Ensure that this role grants least privilege.' The Stack failure options section shows 'Behavior on provisioning failure' with two radio buttons: 'Roll back all stack resources' (selected) and 'Preserve successfully provisioned resources'. The 'Advanced options' section is partially visible at the bottom.

Clique no botão "Next":

The screenshot shows the AWS CloudFormation console in the 'Advanced options' section. The left sidebar is the same as the previous screenshot. The main content area shows the 'Advanced options' section, which includes four expandable sections: 'Stack policy', 'Rollback configuration', 'Notification options', and 'Stack creation options'. The 'Stack policy' section is expanded, showing a description: 'Defines the resources that you want to protect from unintentional updates during a stack update.' The 'Rollback configuration' section is also expanded, showing a description: 'Specify alarms for CloudFormation to monitor when creating and updating the stack. If the operation breaches an alarm threshold, CloudFormation rolls it back.' The 'Notification options' and 'Stack creation options' sections are collapsed. At the bottom right, there are three buttons: 'Cancel', 'Previous', and 'Next' (highlighted in orange).

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Não modifique as opções abaixo:

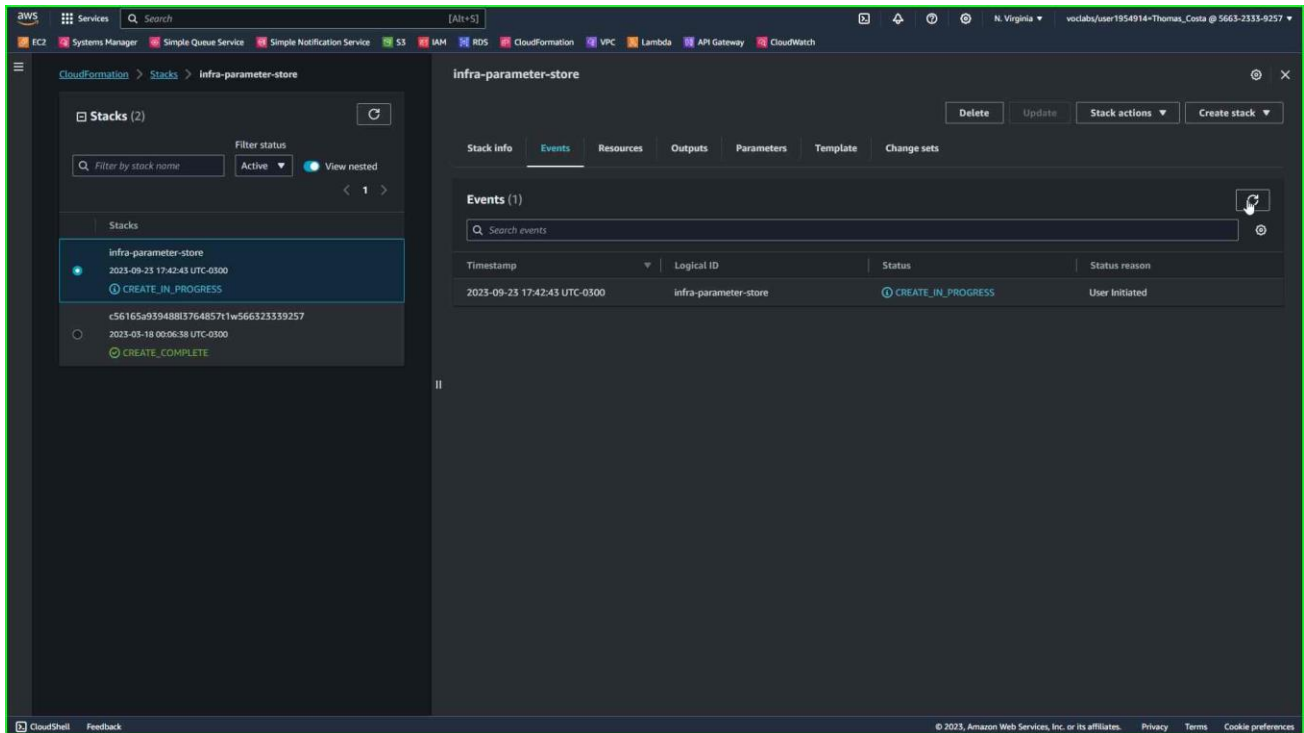
The screenshot shows the AWS CloudFormation console in the 'Create stack' wizard. The left sidebar lists the steps: Step 1: Create stack, Step 2: Specify stack details, Step 3: Configure stack options, and Step 4: Review infra-parameter-store. The main content area is titled 'Review infra-parameter-store' and shows 'Step 1: Specify template'. The 'Template' section displays the 'Template URL' as 'https://s3.us-east-1.amazonaws.com/cf-templates-1hf16530mnpvx-us-east-1/2023-09-25T204152.5182v4r-infra-parameter-store.yml' and the 'Stack description' as 'Criando os parametros da aplicacao Spring Boot'. Below this, 'Step 2: Specify stack details' shows the 'Stack name' as 'infra-parameter-store' and 'Parameters' as 'No parameters'. At the bottom, 'Step 3: Configure stack options' is partially visible. The bottom of the console shows the footer with '© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'.

Clique em "Submit":

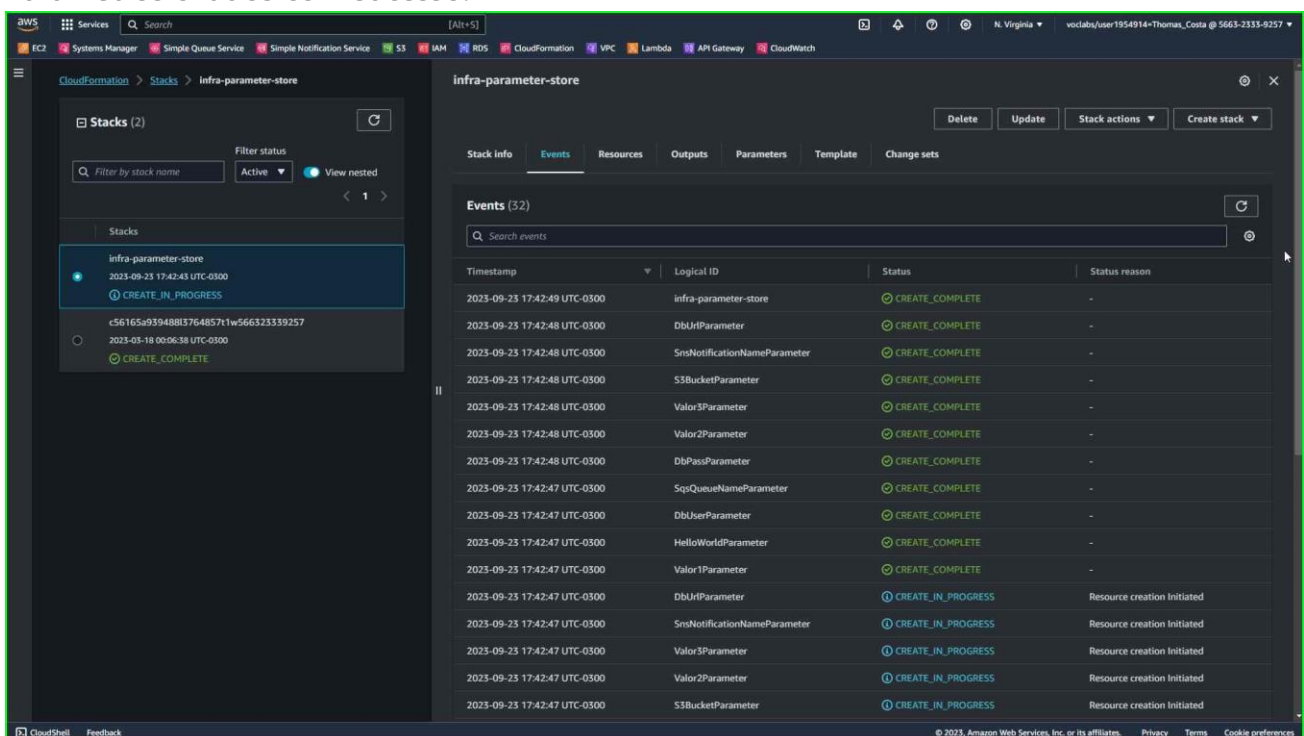
The screenshot shows the AWS CloudFormation console in the 'Create stack' wizard, specifically the 'Submit' step. The left sidebar lists the steps: Step 1: Create stack, Step 2: Specify stack details, Step 3: Configure stack options, and Step 4: Review infra-parameter-store. The main content area is titled 'Stack policy' and shows 'No stack policy'. Below this, 'Rollback configuration' shows 'Monitoring time' as '-' and 'CloudWatch alarm ARN' as '-'. 'Notification options' shows 'SNS topic ARN' as '-' and 'No notification options'. 'Stack creation options' shows 'Timeout' as '-' and 'Termination protection' as 'Deactivated'. At the bottom, there is a 'Quick-create link' section with a 'Create change set' button. The bottom right of the console shows the 'Submit' button, which is highlighted with a red box. The bottom of the console shows the footer with '© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'.

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O CloudFormationa começará a criar os parametros no Parameter Store:

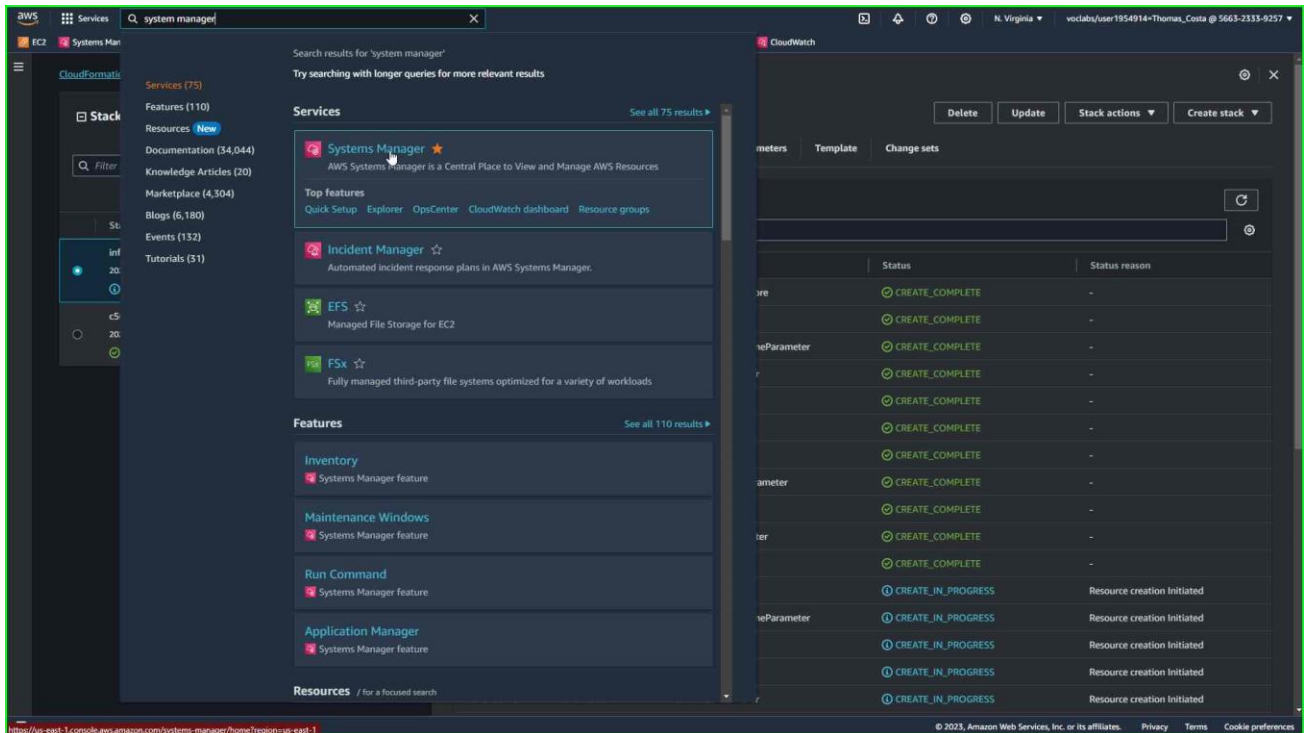


Parametros criados com sucesso:

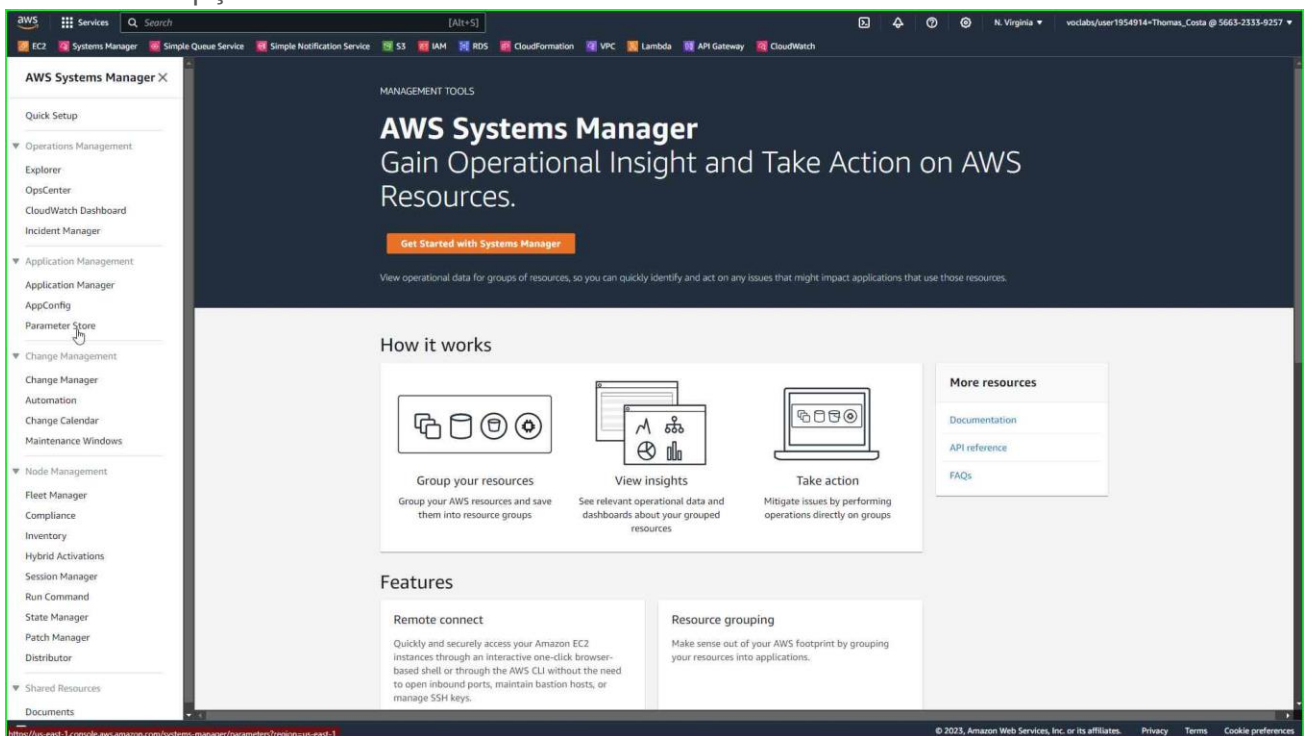


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Procure por “Systems Manager”:

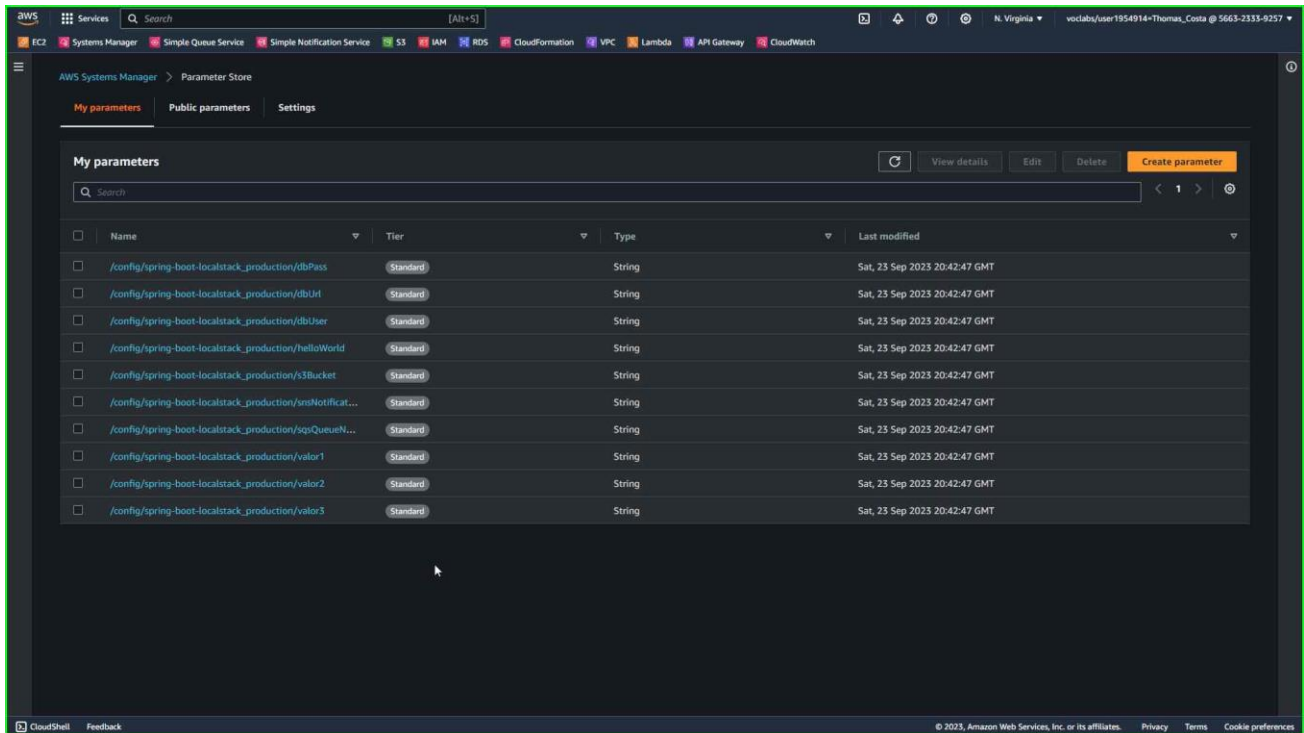


Selecione a opção “Parameter Store”:

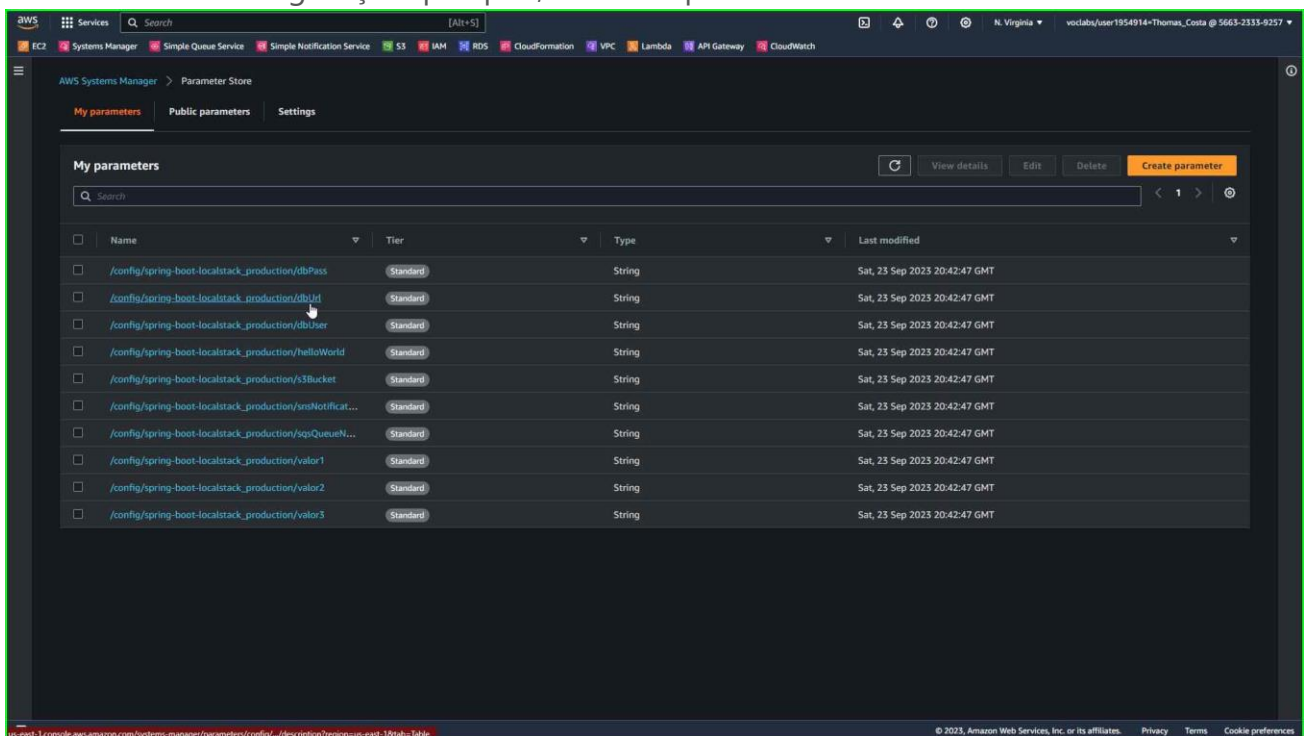


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Configurações foram criadas:

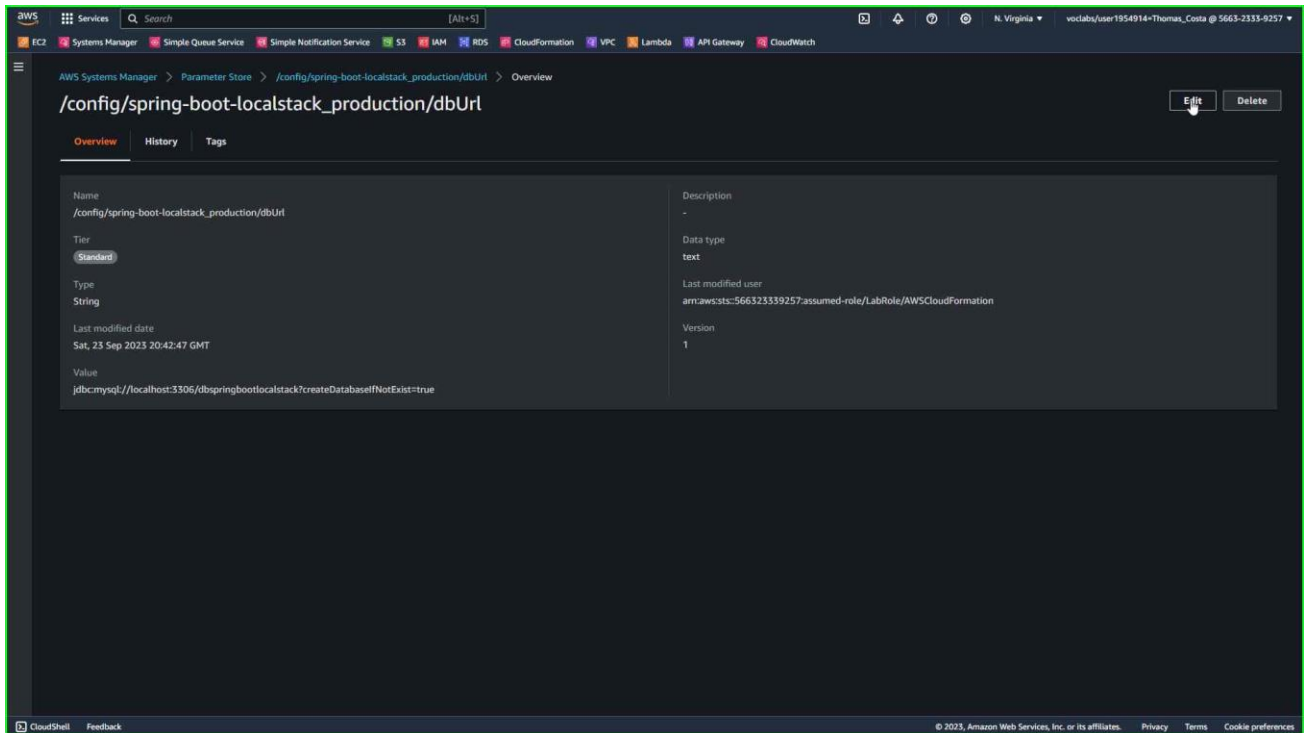


Selecione uma configuração qualquer, somente para verificar o valor:



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Clique no botão "Edit":



Valor da propriedade é mostrado abaixo:

