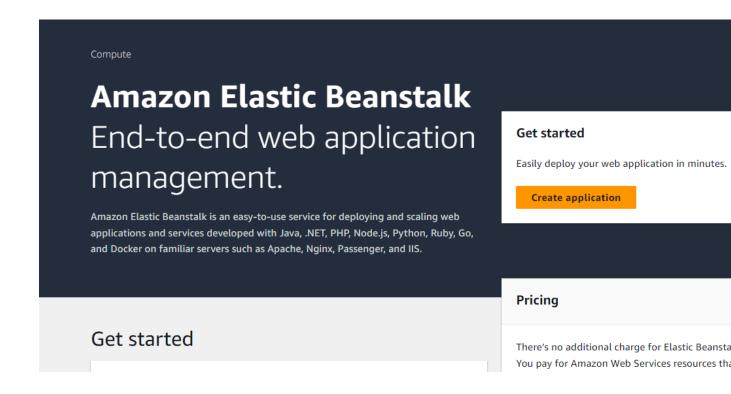
Name: Ishan Hemwani

Div: D15C Roll No:16

Practical No 2: Elastic Beanstalk

1) Go to services and choose elastic Beanstalk.following page will appear.



Configure the environment. Give the application name, check domain availability and choose PHP as platform. Then click next.

onfigure environment Info

Environment tier Info

Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications.

We	b server	environment
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Run a website, web application, or web API that serves HTTP requests. Learn more 🔀

Worker environment

Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. Learn more

Application information Info

Application name

school

Maximum length of 100 characters.

ironment information Info

e the name, subdomain and description for your environment. These cannot be changed later.

onment name

ool-env

be from 4 to 40 characters in length. The name can contain only letters, numbers, and hyphens. It can't start or end with a hyphen. ame must be unique within a region in your account.

ain

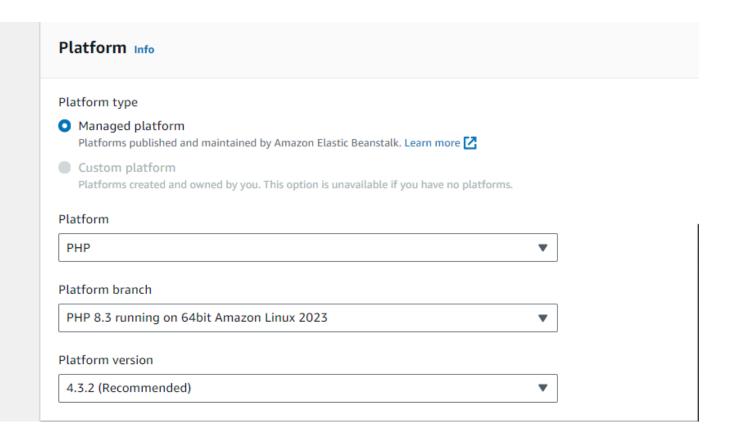
n .us-ea

.us-east-1.elasticbeanstalk.com

Check availability

onment description

created new environment and checked domain availability in elastic beanstalk

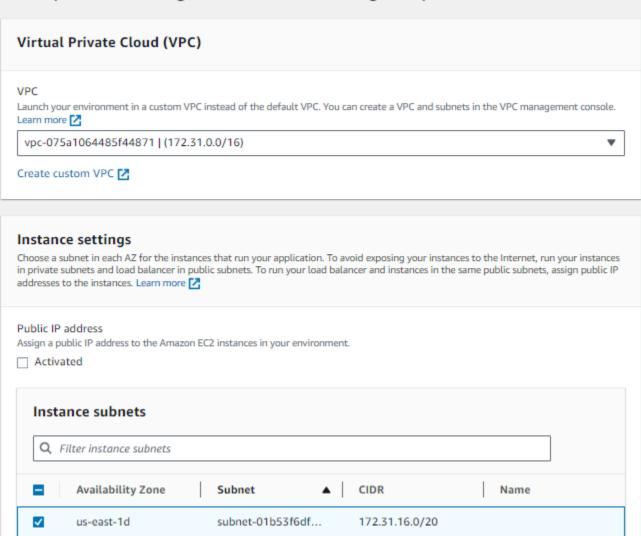


3) Configure the service access.

Service access IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions more 🗸 Service role Create and use new service role Use an existing service role Existing service roles Choose an existing IAM role for Elastic Beanstalk to assume as a service role. The existing IAM role must have the required IAM management of the existing IAM role for Elastic Beanstalk to assume as a service role. policies. EMR_EC2_DefaultRole EC2 key pair Select an EC2 key pair to securely log in to your EC2 instances. Learn more vockey EC2 instance profile Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations. EMR_EC2_DefaultRole View permission details

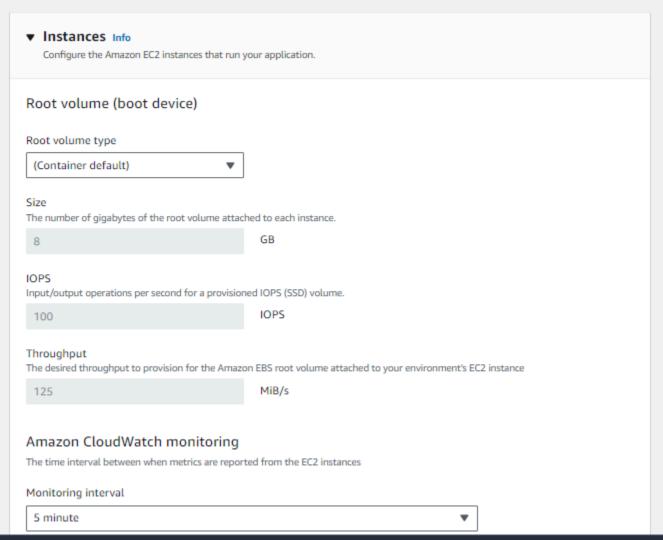
4) Choose one of the available VPC and instance subnet. Click next.

Set up networking, database, and tags - optional Info

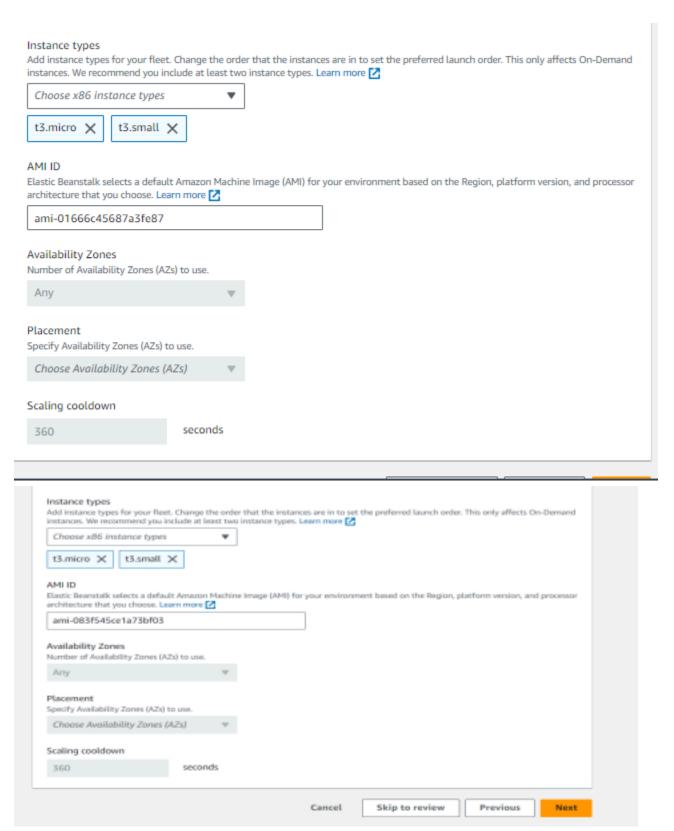


5) Configure instance traffic and scaling. Keep all the options as default.

Configure instance traffic and scaling - optional Info

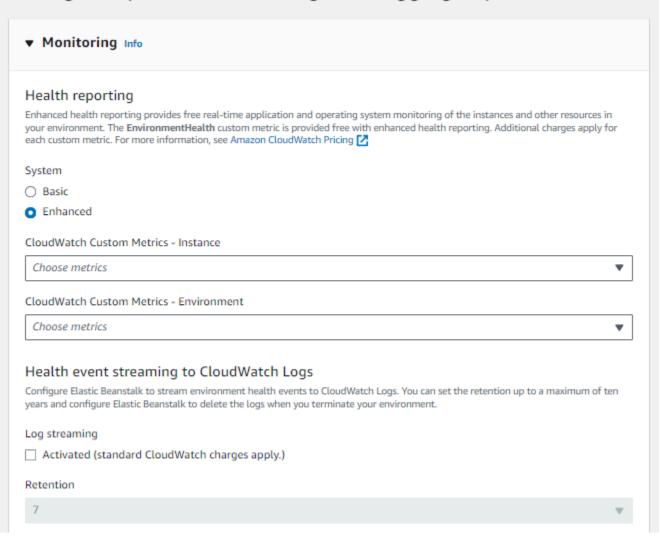


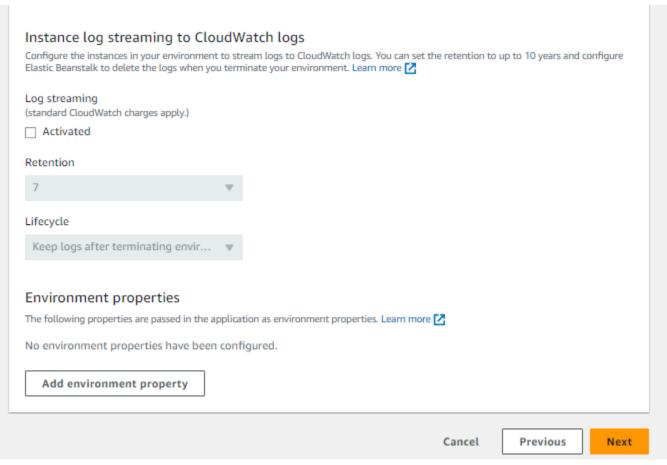
Ø 2024 A



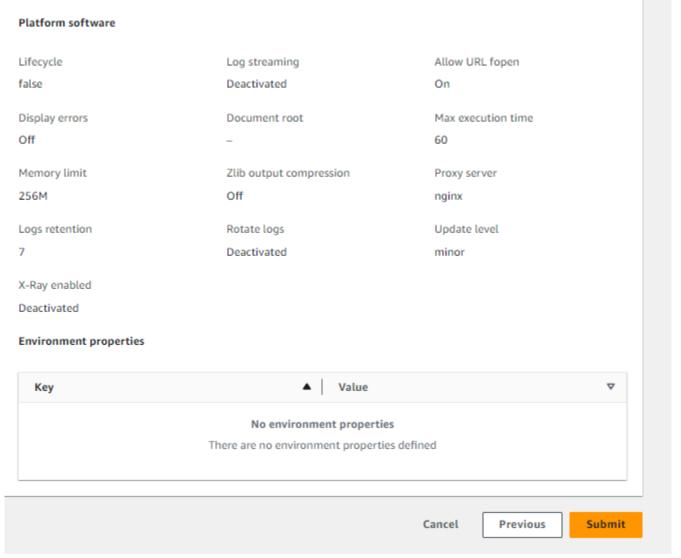
6) Configure updates, monitoring, and logging. Keep everything as default and click next.

Configure updates, monitoring, and logging - optional Info

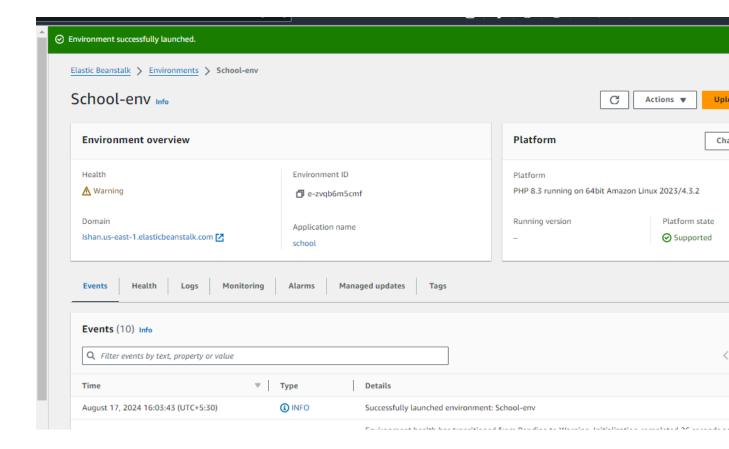




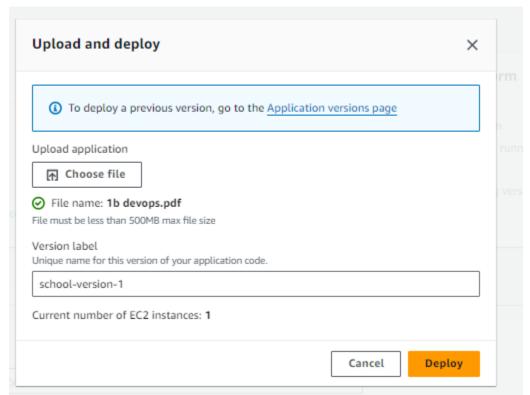
7) In the review section, click submit.

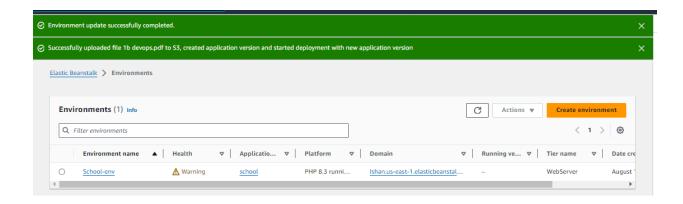


8) Environment has been created successfully.



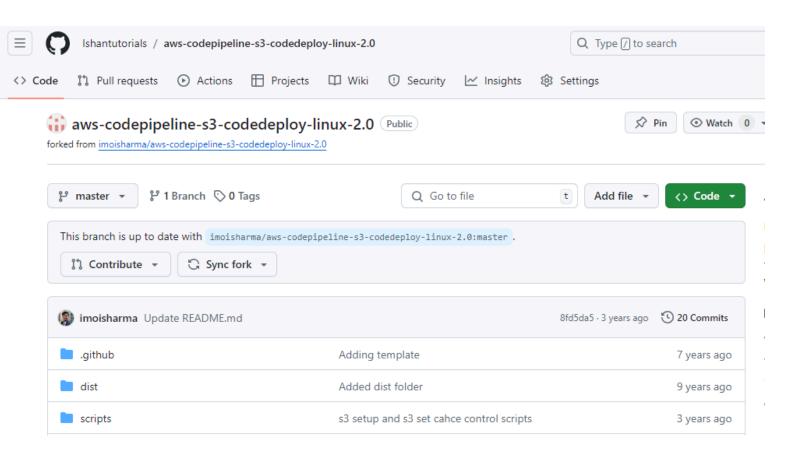
9) Deploy something on the recently created environment.



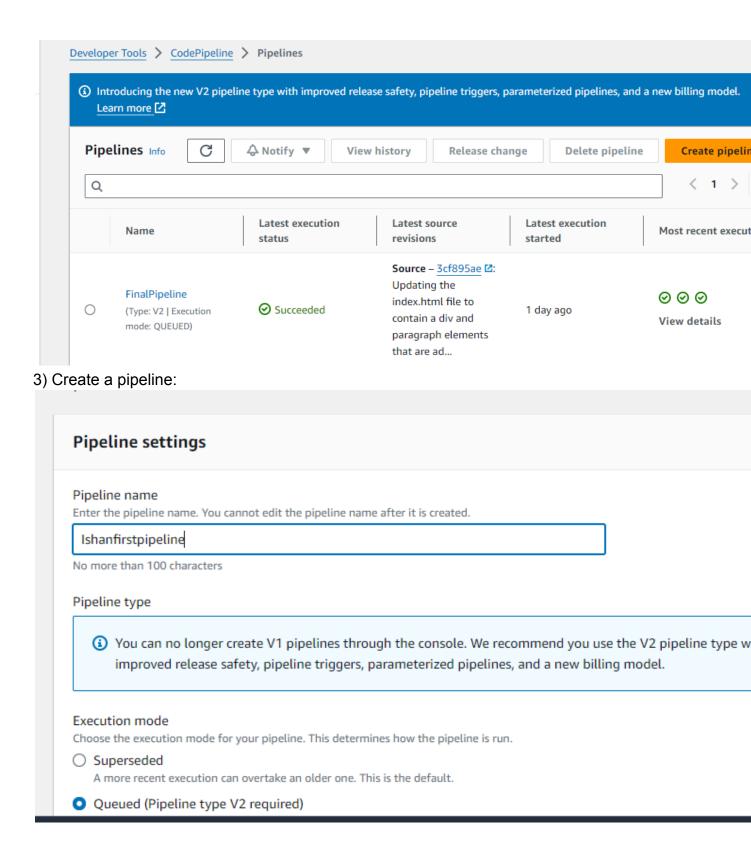


PIpeline Creation:

1) Fork a github repository. This forked repository will act as source for your code pipeline.



2) Go to developer tools and select CodePipeline and create a new pipeline



Service role

New service role

Create a service role in your account

Existing service role

Choose an existing service role from your account

Role name

AWSCodePipelineServiceRole-ap-south-1-Ishanfirstpipeline

Type your service role name

Allow AWS CodePipeline to create a service role so it can be used with this new pipeline

Variables

You can add variables at the pipeline level. You can choose to assign the value when you start the pipeline. Choosing this option requires pipeline type V2. Learn more 🛂

No variables defined at the pipeline level in this pipeline.

Add variable

You can add up to 50 variables.

4)

Source

Source provider

This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.

GitHub (Version 1)



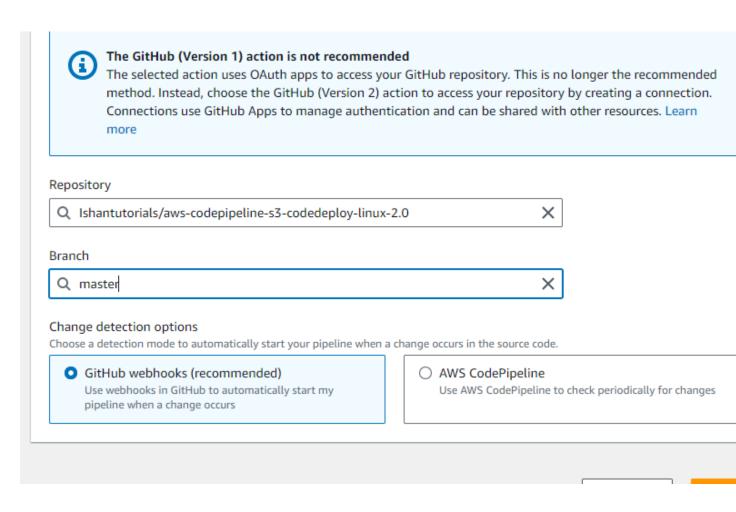
Grant AWS CodePipeline access to your GitHub repository. This allows AWS CodePipeline to upload commits from GitHub to your pipeline.

Connect to GitHub

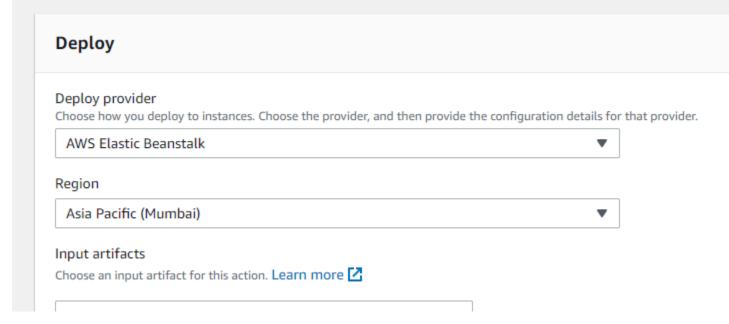


The GitHub (Version 1) action is not recommended

The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (Version 2) action to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources. Learn more

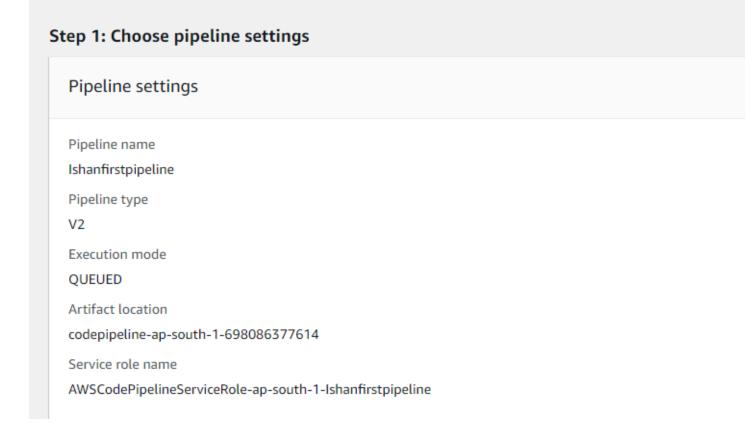


5) Go to the deploy stage and ensure the following settings.

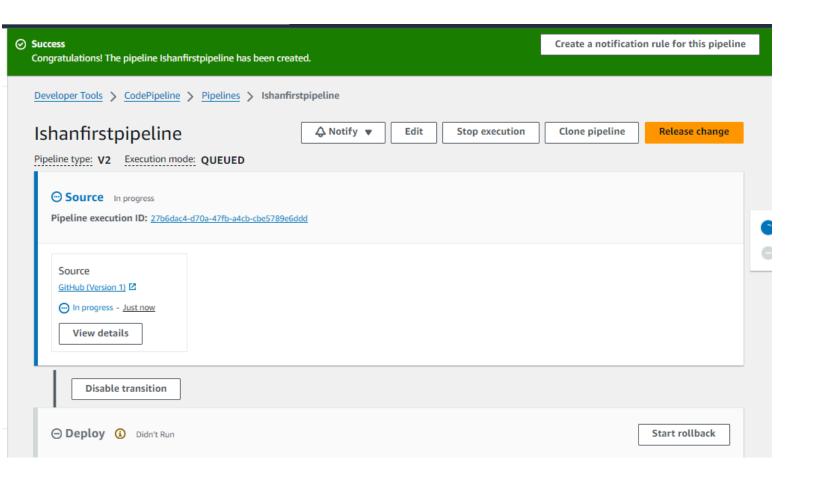


Application name Choose an application that you have already created in the AWS Elastic Beanstalk console. Or create an application in the AWS Elastic Beanstalk console and then return to this task. Q Ishanbeanstalk Environment name Choose an environment that you have already created in the AWS Elastic Beanstalk console. Or create an environment in the AWS Elastic Beanstalk console and then return to this task. Q beanstalk4-env-1 Configure automatic rollback on stage failure Cancel Previous Nex

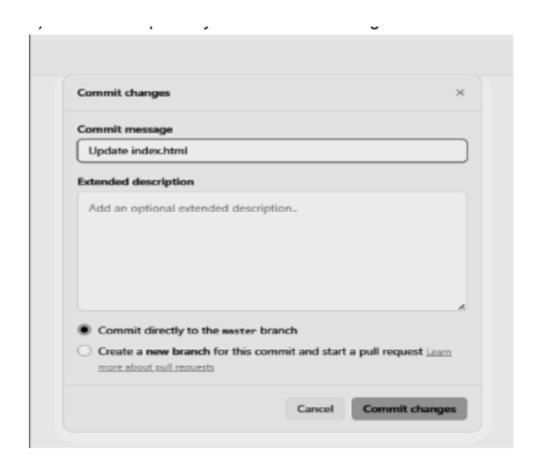
6) review the pipeline settings



7) Then go ahead and check the URL provided in the EBS environment.



8) Go to the repository and make the changes in the index.html file and commit them



9)The changes that are committed can be noticed in the source panel in real time and to view the changes check the url (refresh it) and you can view the changes once the deployment section shows success.

Hello this is my first deployment D15C

You have successfully created a pipeline that retrieved this source application from an Amazon S3 deployed it to three Amazon EC2 instances using AWS CodeDeploy.

For next steps, read the AWS CodePipeline Documentation. Incedge 2020