

CASE STUDY

Complete automation

To increase the release velocity and also to ensure high quality of the release delivery.

ABOUT AXCESS.IO

AXCESS.IO is a niche provider of Managed Cloud Services to businesses worldwide and has served an ever-growing number of clients since its inception. In a relatively short period, AXCESS.IO has quickly become a niche consulting firm specializing in Cloud Advisory, Cloud Managed Services, and DevOps Automation.

ABOUT SYNCORDIS

Syncordis SA, an LTI Company, provides business and IT consultancy exclusively for the Financial Services Industry using the TEMENOS Banking Software Suites. With offices in Luxembourg, France, India and the UK Syncordis is a dedicated TEMENOS services partner specialising in the delivery of implementation services, upgrade services and production support services for all Temenos solutions. Syncordis currently provides Temenos services in 15 different European countries.

LTI (NSE: LTI) is a global consulting and digital solutions company that helps large enterprises use technology to improve the effectiveness of their business operations and deliver value to their customers, employees and shareholders. In a world where digital and brick and mortar assets constantly converge, LTI helps more than 300 clients in 30 countries accelerate their digital transformations.

THE CHALLENGE

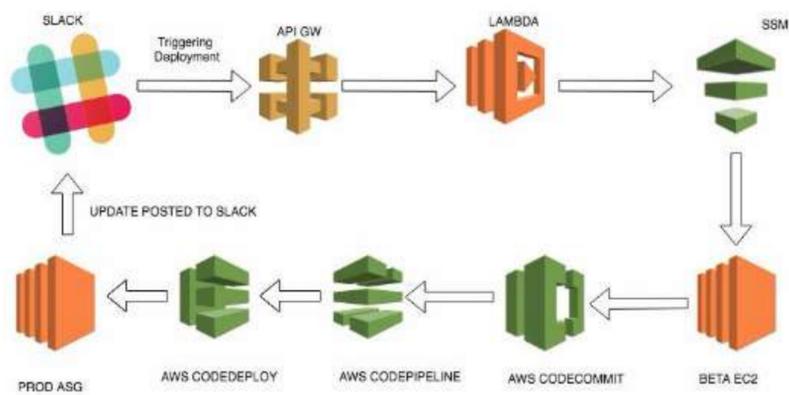
LTI has a very active digital roadmap. This needed complete automation to not only increase the release velocity but also ensures the high quality of the release delivery. The engineer was required to log in to the staging instance and run multiple commands for committing the beta code to the Bitbucket repository and deploy using the CodeDeploy plugin from the Bitbucket console. This meant that every engineer had to be equipped with the basic knowledge of how to handle these deployments, making hiring and training more difficult. Also, even after the engineers were trained, the complex manual system consistently caused deployment delays.

OUR SOLUTION

Charged with addressing these problems, Access concluded that the best strategy would be to implement a simple, single-click solution to streamline the complex workflow.

We determined that the entire solution could be built almost entirely using AWS managed tools, including :

- ✓ AWS CodeCommit
- ✓ AWS CodePipeline
- ✓ AWS SSM
- ✓ AWS API GW
- ✓ AWS Lambda
- ✓ Slack



A step-by-step description of the process:

- ✓ The deployment process begins with a Slack command. The user types the command in the Slack chat window. This command calls the AWS API GW using Slack webhook.
- ✓ The API GW triggers the Lambda function which in turn invokes the SSM command for Linux in the beta instance.
- ✓ Once the command is executed, the bash script inside the beta instance commits the code to AWS CodeCommit.
- ✓ Then, the CodePipeline drives of deployment to the instances in the ASG setup with the help of the CodeDeploy agent provided by AWS.
- ✓ This process is sent back to a Slack chat window where the user can track the progress.

AWS USAGE IN THE PROCESS

- ✓ AWS CodeCommit was used in place of Atlassian Bitbucket.
- ✓ AWS CodePipeline was used in place of the Bitbucket AWS CodeDeploy plugin.
- ✓ API GW was used to trigger the Lambda function from the Slack chat window
- ✓ The Lambda function was used to trigger the SSM command on EC2 to initiate the CodeCommit from the beta stack.
- ✓ AWS SNS was used to track the events during the deployment process.

THE FINAL OUTCOME

This solution provided LTI with a single-click solution for deployment from the Beta site to the Production site and provided the following advantages:

- ✓ Any layman can trigger the deployment process with one command from Slack.
- ✓ By eliminating the manual processes, the employee time needed for the deployment process was drastically reduced.
- ✓ Access to the instance is not shared as it runs within the SSM, ensuring the security of all information.
- ✓ The outputs from the process are published to the Slack interface, making it easy to gather and analyze information.