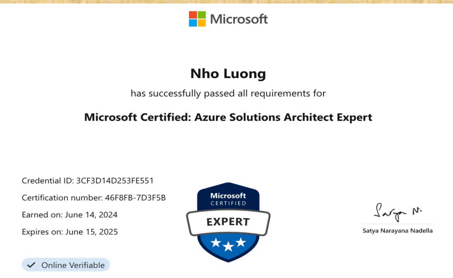
Jenkins Overview

Author: Nho Luong

Skill: DevOps Engineer Lead



Microsoft

Nho Luong

has successfully passed all requirements for

Microsoft Certified: Azure Solutions Architect Expert

Credential ID: 3CF3D14D253FE551

Certification number: 46F8FB-7D3F5B

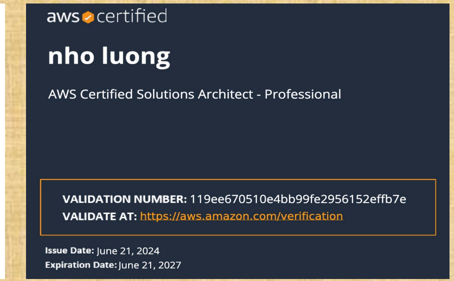
Earned on: June 14, 2024

Expires on: June 15, 2025

✓ Online Verifiable

Microsoft CERTIFIED EXPERT

Satya Narayana Nadella



aws certified

nho luong

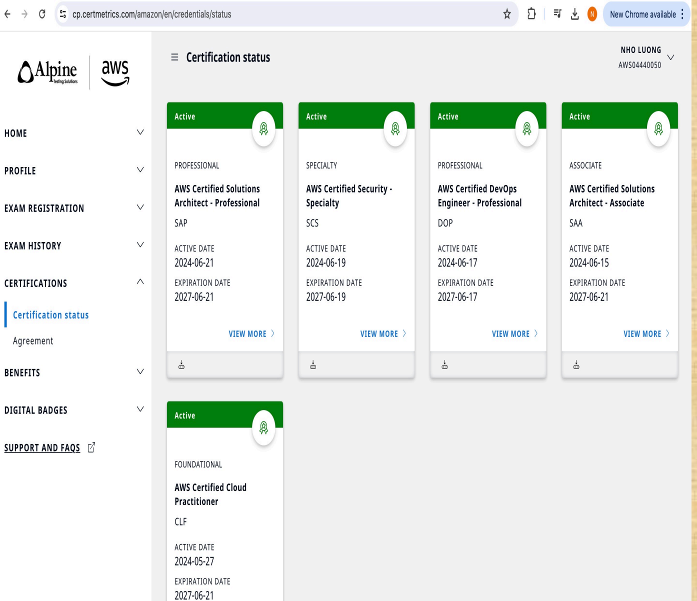
AWS Certified Solutions Architect - Professional

VALIDATION NUMBER: 119ee670510e4bb99fe2956152effb7e

VALIDATE AT: https://aws.amazon.com/verification

Issue Date: June 21, 2024

Expiration Date: June 21, 2027



cp.certmetrics.com/amazon/en/credentials/status

Certification status

NHO LUONG

AWS04440050

Active

PROFESSIONAL

AWS Certified Solutions Architect - Professional

SAP

ACTIVE DATE 2024-06-21

EXPIRATION DATE 2027-06-21

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Active

SPECIALTY

AWS Certified Security - Specialty

SCS

ACTIVE DATE 2024-06-19

EXPIRATION DATE 2027-06-19

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PROFESSIONAL

AWS Certified DevOps Engineer - Professional

DOP

ACTIVE DATE 2024-06-17

EXPIRATION DATE 2027-06-17

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ASSOCIATE

AWS Certified Solutions Architect - Associate

SAA

ACTIVE DATE 2024-06-15

EXPIRATION DATE 2027-06-21

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Active

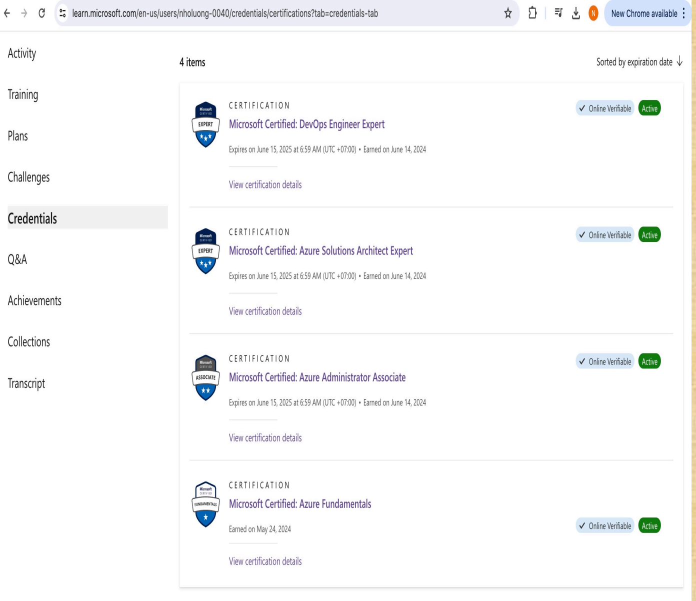
FOUNDATIONAL

AWS Certified Cloud Practitioner

CLF

ACTIVE DATE 2024-05-27

EXPIRATION DATE 2027-06-21



learn.microsoft.com/en-us/users/nholuong-0040/credentials/certifications?tab=credentials-tab

4 items

Sorted by expiration date

CERTIFICATION

Microsoft Certified: DevOps Engineer Expert

Expires on June 15, 2025 at 6:59 AM (UTC +07:00) • Earned on June 14, 2024

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CERTIFICATION

Microsoft Certified: Azure Solutions Architect Expert

Expires on June 15, 2025 at 6:59 AM (UTC +07:00) • Earned on June 14, 2024

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CERTIFICATION

Microsoft Certified: Azure Administrator Associate

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CERTIFICATION

Microsoft Certified: Azure Fundamentals

Earned on May 24, 2024

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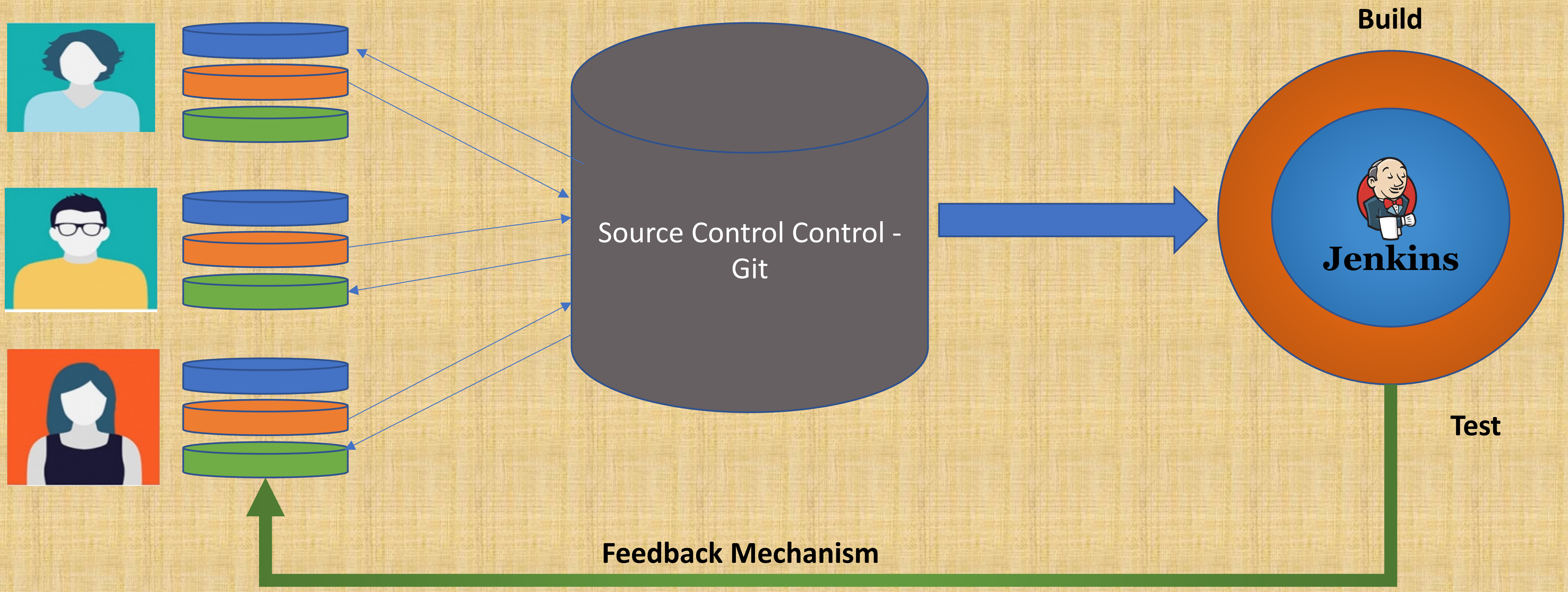
Continuous Integration



Build

Source Control Control - Git

Jenkins

Test

Feedback Mechanism

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Skill: DevOps Engineer Lead

Continuous Integration

- Continuous Integration (CI) is a development practice that requires developers to integrate code into a shared repository several times a day. Each check-in is then verified by an automated build, allowing teams to detect problems early.
- By integrating regularly, you can detect errors quickly, and locate them more easily.

Why Continuous Integration

- If developers do not commit the changes on regular basis then code changes has to be integrated and tested manually.
- If developers commit the changes on regular basis like daily or weekly and Build script compiles the code and runs the test script automatically then on regular basis the integration happens but still it is not completely continuous integration because the changes get compiled on regular basis not immediately and incase of Build failure the notification sent back to developer.
- So that is why we need a CI process means whenever developer commits the code into source control, it should be immediately build and incase of failure it sends the notification to developer.

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CI-Advantages

- Goodbye to long and tense integration.
- Increase visibility enabling greater communication.
- Catch the issues early.
- Spend less time for debugging and more time on adding more features.

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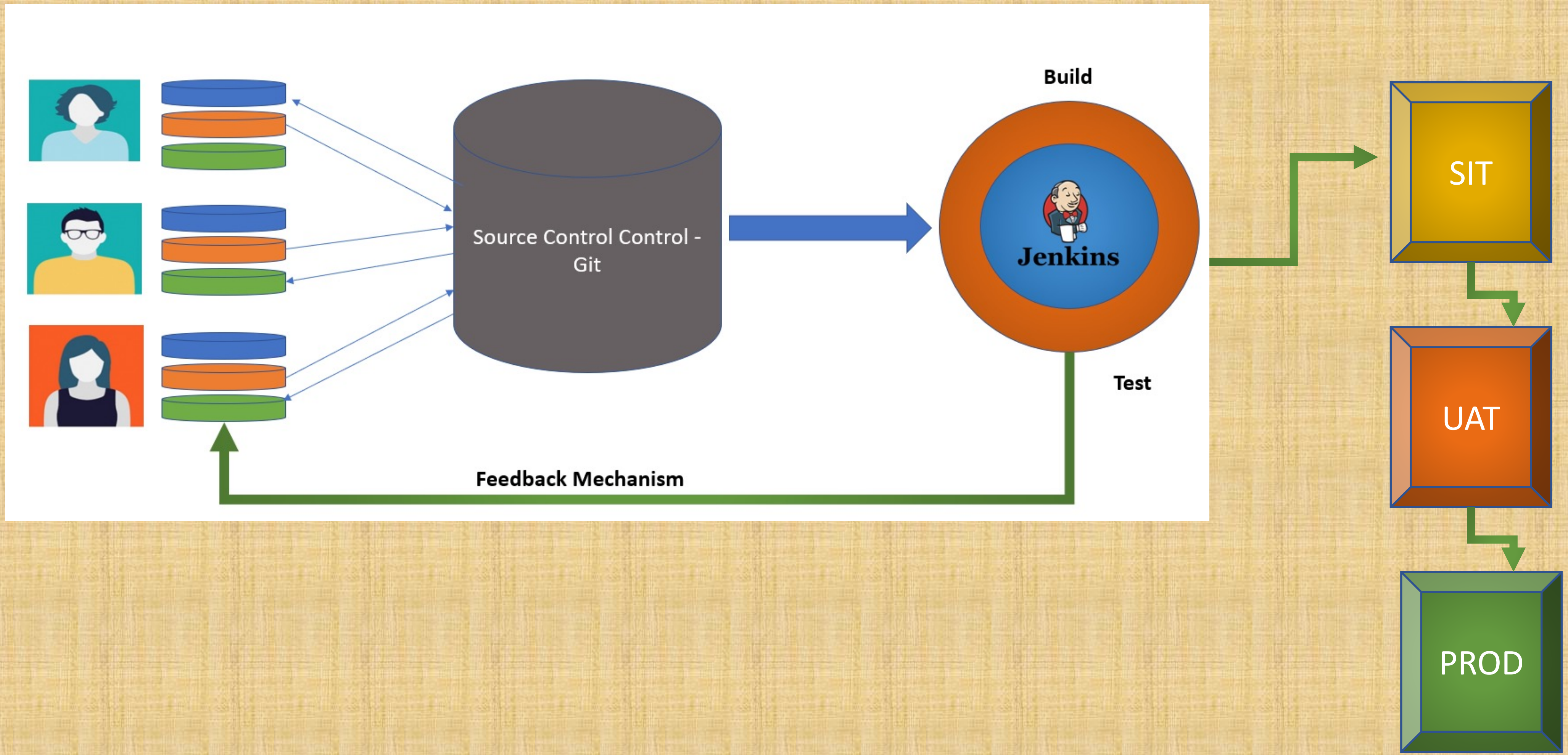
Continuous Delivery



Build

Source Control Control - Git

Jenkins

Test

Feedback Mechanism

SIT

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PROD

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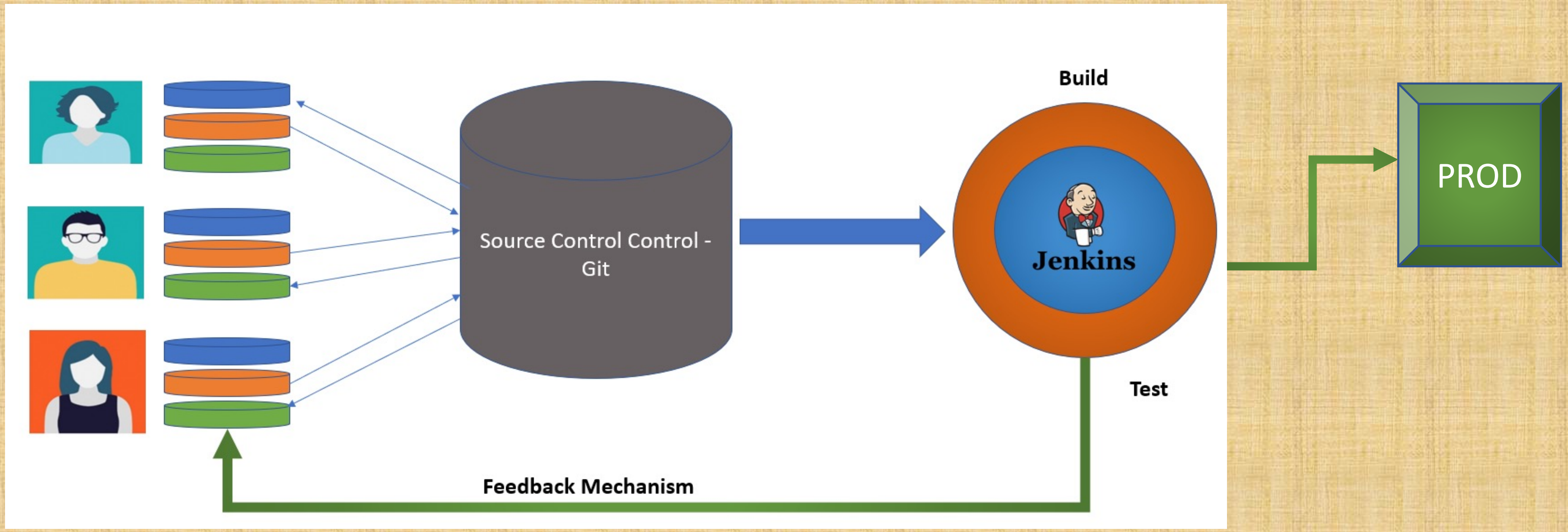
Continuous Deployment



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Installing Jenkins

--->Minimum hardware requirements:

- 256 MB of RAM
- 1 GB of drive space (although 10 GB is a recommended minimum if running Jenkins as a Docker container)

---->Recommended hardware configuration for a small team:

- 1 GB+ of RAM
- 50 GB+ of drive space

Sofware requirements:

- Java 8 - either a Java Runtime Environment (JRE) or a Java Development Kit (JDK) is fine

Thank You

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