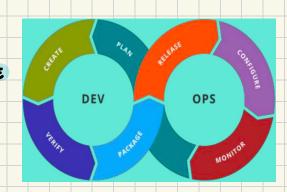
DEVOPS

DEVOPS IS A METHODOLOGY THAT COMBINES SW DEVELOPMENT AND IT OPERATIONS. IT AIMS TO IMPROVE COLLABORATION, AUTOMATION AND SPEED ACROSS THE ENTIRE SW LIFECYCLE.



DEVOPS HAS THESE GOALS:

- INCREASE THE SPEED OF DEVELOPMENT AND DEPLOYMENT.
- REDUCE DOWNTIME AND HUMAN ERRORS.
- CREATE A COLLABORATIVE CULTURE BETWEEN DEVELOPMENT AND OPERATIONS.

CURRENT BUSINESS PROBLEMS

DEVOPS SOLVES COMMON BUSINESS PROBLEMS, INCLUDING:

- SLOW CHANGE: COMPANIES OFTEN STRUGGLE TO RESPOND QUICKLY TO MARKET NEEDS
- RISKY DEPLOYMENTS: MANUAL RELEASES CAN BE SLOW AND ERROR-PRONE.
- OPERATIONAL INSTABILITY: PROBLEM FIXES TAKE TIME DELAYING INNOVATION.
- PROCESS FRAGHENTATION: POOR TEAM COLLABORATION, LACK OF PROPERLY

 CONFIGURED ENVIRONMENTS, AND MUMAN ERRORS

 DURING DEPLOYMENTS.

KEY DEFINITIONS OF DEVOPS

- COLLABORATION AND COMMUNICATION. DEVOPS BRINGS TOGETHER DEVELOPMENT,

 OPERATIONS AND BUSINESS TEAMS TO SHARE

 RESPONSIBILITY AND IMPROVE TRANSPARENCY.
- AUTOMATION: DELIVERY AND INFRASTRUCTURE CHANGES ARE AUTOMATED TO REDUCE TIME AND ERRORS.
- WITURE: AT THE HEART OF DEVOPS IS A SHIFT IN MINDSET TOWARDS
 CONTINUOUS COOPERATION AND INNOVATION.

DEVOPS LIFELYLLE

DEVOPS TRANSFORMS THE TRADITIONAL SW DELIVERY CYCLE INTO A CONTINUOUS CYCLE, WTEGRATING:

- CONTINUOUS INTEGRATION (CI): DEVELOPERS FREQUENTLY INTEGRATE CODE

 INTO A SHARED REPOSITORY. AUTOMATIC

 TESTS VERIFY EVERY CHANGE, ENSURING

 STABLE CODE.
- CONTINUOUS DELIVERY (CD): EACH BUILD IS KEPT READY FOR DEPLOYMENT.

 RELEASES ARE AUTOMATED AND CAN HAPPEN WITH

 A SIMPLE COMMAND.
- CONTINUOUS DEPLOYMENT: NEXT STOP TO CD. EVERY CHANGE THAT PASSES

 THE AUTOMATED TESTS IS DE PLOYED DIRECTLY

 TO PRODUCTION.

