CONTINUOUS DELIVERY

BY JEZ HUMBLE AND DAVID FARLEY

"CONTINUOUS INTEGRATION IS A SOFTWARE DEVELOPMENT PRACTICE WHERE MEMBERS OF A TEAM INTEGRATE THEIR WORK FREQUENTLY, USUALLY EACH PERSON INTEGRATES AT LEAST DAILY." - MARTIN FOWLER

CI PRINCIPLES

ELIMINATE THE NEED FOR INSPECTION ON A MASS BASIS BY BUILDING QUALITY INTO THE PRODUCT IN THE FIRST PLACE. - W. EDWARDS DEMING "



MAINTAIN A SINGLE SOURCE REPOSITORY

AVOID HAVING SOURCE CODE BEING SCATTERED ACROSS MULTIPLE LOCATIONS

KEEP THE BUILD FAST - FAIL FAST

- · BUILD SHOULD NOT TAKE HOURS TO HAPPEN
- HAVE SHORT FEEDBACK LOOPS





TOMATE THE BUILD

E COMMAND SHOULD HAVE THE CAPABILITY OF BUILDING THE WHOLE SYSTEM

TEST IN A CLONE OF THE PRODUCTION ENVIRONMEN





MAKE YOUR BUILD SELF-TESTING

- CONFIRM THAT IT BEHAVES AS EXPECTED
- COMPUTER CAN REPLACE HOURS OF MANUAL TESTING WITH JUST MINUTES OF AUTOMATED TESTING



EVERYONE CAN SEE WHAT'S HAPPENING

- SEND NOTIFICATIONS
- FEEDBACK EVERYWHERE
- REDUCE FEEDBACK LOOP





EVERYONE COMMITS TO THE CENTRAL REPOSITORY EVERY DAY

- TEN AS POSSIBLE MICRO INCREMENTS
- GUARANTEE THE SUCCESS OF THE INTEGRATION

MAKE IT EASY FOR ANYONE TO GET THE LATEST EXECUTABLE VERSION

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- AVAILABLE TO STAKEHOLDERS AND TESTERS





EVERY COMMIT SHOULD BUILD ON AN INTEGRATION MACHINE

OUR HIGHEST PRIORITY IS TO SATISFY THE CUSTOMER THROUGH EARLY AND CONTINUOUS DELIVERY OF VALUABLE SOFTWARE

AUTOMATE DEPLOYMENT

- REDUCE THE DEPLOYMENT RISKS
- DEPLOYMENT AS A NON-EVENT



CD PRINCIPLES



REPEATABLE & RELIABLE PROCESS

- GET THE LIST OF DEPLOYED FEATURES
- NOTHING CAN BE INTRODUCED THAT HAS NOT BEEN TESTED



IF SOMETHING IS DIFFICULT. DO IT MORE OFTEN



VERSION CONTROL EVERYTHING



DONE MEANS "RELEASED"



BUILD QUALITY IN



EVERYONE IS RESPONSIBLE

4 PRACTICES

BUILD ONCE, DEPLOY MANY · EARLY AND OFTEN

- ARTEFACT IS ENVIRONMENT AGNOSTIC AUTOMATE EVERYTHING



SMOKE TEST YOUR DEPLOYMENT "DOES CLICKING THE MAIN BUTTON DO ANYTHING?"

- DETERMINE THE STATE OF THE SYSTEM

IF ANYTHING FAILS STOP THE LINE



TO DEPLOY TO EVERY ENVIRONMENT

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