BENEFITS OF CI/CD

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WHAT IS CI/CD

Continuous integration:

Continuous integration (CI) is the process of automatically building and testing code every time a team member commits code changes to version control.

Continous delivery

is an **approach** in which teams produce software in short cycles, ensuring that the software can be reliably released at any time and, when releasing the software, without doing so manually.

BENEFITS OF CI/CD

I think ci/cd is a necessity on companies on now days it accelerates the production time on market since everything is automated we do not need any manual check all of that will make us gain money and time ,also we do not need to worry about our infrastructure we may changing our infrastructure automatically or even clean up after un amount of time on a failure case or any needed use case without worrying about manual integration that's will help us on reducing and avoiding unnecessary cost .
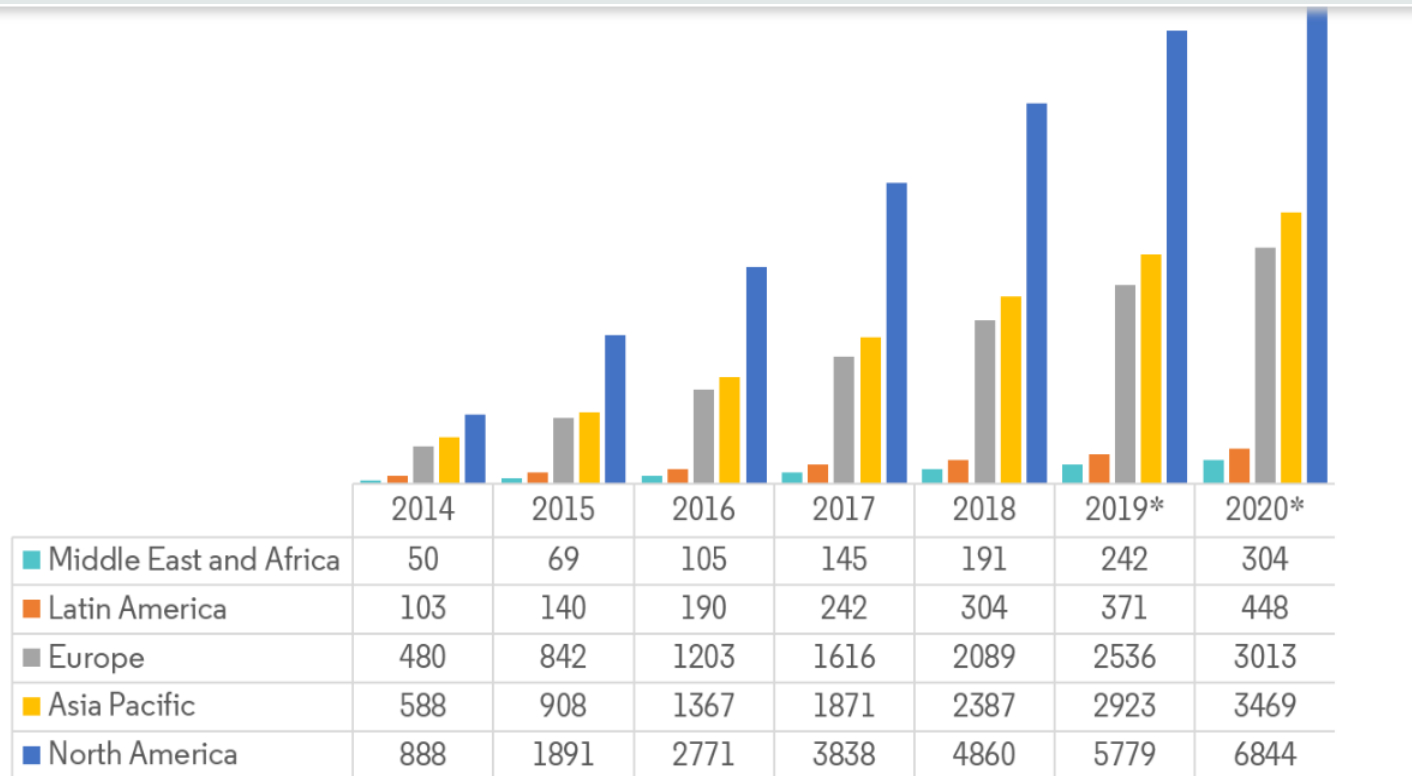
Ci/Cd may also save us from any embarrassing or costly security holes with detecting failure on unit test on each commit we may detect the down grade or any breaking change we may also roll back to any stable previous version on a case of a breaking change feature or problem without worrying about any complicated measure which will increase our revenue since bugs happen often but to be stuck on a certain version for a long period of time may affect our revenue

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Lastely I find smoke test I think it is really important and we must not forget about it it may audit our system and check any possible bug .

I may add that ci cd also save us from any embarrassing or costly security holes   with detecting failure on unit test on each commit we may detect the down grade or any breaking change we may also roll back to any stable previous version on a case of a breaking change feature or problem without worrying about any complicated measure ,and lastly I find smoke test I think it is really important and we must not forget about it may audit our system and check any possible bug .

BENEFITS OF CI/CD

	2014	2015	2016	2017	2018	2019*	2020*
■ Middle East and Africa	50	69	105	145	191	242	304
■ Latin America	103	140	190	242	304	371	448
■ Europe	480	842	1203	1616	2089	2536	3013
■ Asia Pacific	588	908	1367	1871	2387	2923	3469
■ North America	888	1891	2771	3838	4860	5779	6844

And on nowadays the number of companies that are adapting ci/cd increased tremendously and that's due to the benefits that we mentioned before still on the middle east and Latin America on 2020 but ci/cd will sooner reign the world