Form - Continuous integration bad practices in closed-source projects

Identification

E-mail:
Level of education: ( )Graduate   ( )Specialization   ( )Master's Degree   ( )PhD   ( )Post PhD
Role in the organization: ( )Supervisor   ( )Developer   ( )Tester   ( )Design   ( )Other:_____
Level of knowledge in continuous integration: ( )Basic   ( )Intermediate   ( )Advanced
Level of knowledge in software quality: ( )Basic   ( )Intermediate   ( )Advanced

The following CI bad practices can impact on which indicators of software quality?

Bad-practice	None	Reliability	Security	Maintainability
Feature branches are used instead of feature toggles				
Divergent Branches				
Developers do not have a complete control of the environment				
Failures notifications are only sent to teams/developers that explicitly subscribed				
Missing tests on feature branches				
Some pipeline's tasks are started manually				
Lack of testing in a production-like environment				
Test cases are not organized in folders based on their purposes				

The CI server hardware is used for different purposes other than running the CI framework				
External tools are used with their default configurations				
A build fails because of some flakiness in the execution, whereas it should not				
Lengthy build scripts				
Quality gates are defined without developers considering only what dictated by the customer				
Developers and operators are kept as separate roles				

What is the level of effort to resolve the following CI bad practices?

Bad-practice	Not sure	Low	Medium	High
Feature branches are used instead of feature toggles				
Divergent Branches				
Developers do not have a complete control of the environment				
Failures notifications are only sent to teams/developers that explicitly subscribed				
Missing tests on feature branches				
Some pipeline's tasks are started manually				
Lack of testing in a production-like environment				
Test cases are not organized in folders based on their purposes				
The CI server hardware is used for different purposes other than running the CI framework				
External tools are used with their default configurations				
A build fails because of some flakiness in the execution, whereas it should not				

Lengthy build scripts				
Quality gates are defined without developers considering only what dictated by the customer				
Developers and operators are kept as separate roles				