

# Separation of development test and production environments

ISO 27002 Control 8.31

## Control

Development, testing and production environments should be separated and secured

## Purpose

To protect the production environment and data from compromise by development and test activities

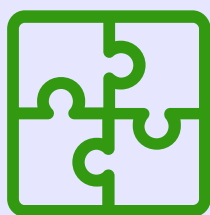
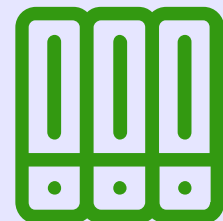


## Why is it important?

- Inadequate separation introduces significant risks (e.g., running unauthorized code, data integrity issues) to the production system
- It ensures confidentiality of production information by restricting access for developers/testers
- It enforces segregation of duties by preventing a single person from deploying untested changes directly

## What does it imply ?

- Adequately separating development and production systems
- Testing changes to production systems and applications in a testing environment prior to being applied to production systems
- Not making development tools or utility programs accessible from production systems when not required
- Defining roles/segregation of access rights so a single person cannot make changes to both development and production without review/approval



## Best practices

- Adequately separating development and production systems
- Defining roles and segregating access rights to prevent one person from making unauthorized changes across environments
- Implementing strong security controls (patching, configuration) on non-production environments

## Link with other frameworks

- NIST 800-53 rev5 : CM-4(1), CM-5\*, SA-3\*
- NIST CSF 2.0 : PR.IR-01



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