

# Operational Resource

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## Discussion

An Operational Resource is a [Resource](#) used to perform or support an operational activity.

An Operational Resource can include:

- A person
- An [Organization](#)
- A [Node](#)
- A [Node Set](#)
- A service
- A software component
- A physical machine
- A virtual machine
- A container
- A network
- A storage facility
- A database
- An [Execution Facility](#)
- A [Deployment Target](#)
- A test instrument
- A communication facility
- An external system
- Another resource required to conduct or support operations

An Operational Resource can identify:

- Its identity
- Its name
- Its description
- Its type
- Its [Version](#)
- Its owner
- Its operator
- Its applicable [Roles](#)
- Its provided capabilities
- Its required capabilities
- Its interfaces
- Its applicable [Endpoints](#)
- Its dependencies
- Its configuration
- Its availability
- Its capacity
- Its operational status

- Its applicable [Governance Policies](#)
- Its [Provenance](#)
- Its [Traceability](#)

A [Test Environment](#) can contain, identify, allocate, configure, or provide access to Operational Resources required for [Test Execution](#).

## Definition

*[Resource](#) used to perform or support an operational activity*

## Source

Adapted from:

- [Resource](#)
- [Test Environment](#)
- DIDO Reference Architecture
- DIDO Reference Implementation Conceptual Model
- DIDO-TE draft Requirements Register

## Note

Every Operational Resource is a Resource. A Resource is not necessarily an Operational Resource.

A Resource becomes an Operational Resource when an operational activity uses or depends on it.

An Operational Resource differs from a [Test Environment](#):

- An Operational Resource performs or supports an operational activity
- A Test Environment identifies the conditions, configurations, dependencies, and Operational Resources required to conduct testing

An Operational Resource differs from a [Deployment Target](#):

- An Operational Resource performs or supports an operational activity
- A Deployment Target provides a destination for installing, configuring, or activating a deployable artifact

The same resource can satisfy both definitions.

An Operational Resource differs from an [Execution Facility](#):

- An Operational Resource performs or supports an operational activity
- An Execution Facility interprets or performs [Executable Instructions](#)

Every Execution Facility used operationally is an Operational Resource. An Operational Resource is not necessarily an Execution Facility.

An Operational Resource can be:

- Dedicated or shared
- Permanent or temporary
- Local or remote
- Physical or virtual
- Human-operated or automated
- Internal or external to the system

## Example

A DIDO-TE [Test Environment](#) uses the following Operational Resources:

- Three Nodes forming a Node Set
- A container runtime
- A test automation service
- A database
- A communication network
- An Artifact Repository
- A monitoring service
- A User acting in the Test Operator Role

Each Operational Resource supports the applicable Test Execution and appears in the resulting [Test Run](#) record.

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