OutSystems Platform Server Roles

Some parts of this content may look out of context without reading the remaining content in this section. Please make sure to read the whole section for complete understanding of the topics discussed here.

An understanding of the existing server roles is key to design the OutSystems platform infrastructure. A server can have more than a role, or you can use a single server/single role approach, but each environment needs the following roles:

Front-end Role

**Front-end** role handles both application logic and delivery to end-user. It can be installed as a standalone server or sharing a server with one of the following roles:

- Deployment Controller
- Scheduler

The Front-end resource usage is distributed through the CPU, Memory and Network as follow:

- Application logic runs on CPU resources.
- Application objects need to be held in memory to ensure fast content delivery.
- Network delivers content according to communication throughput demand.
Deployment Controller Role

The Deployment Controller handles the application compilation for deployment in Front-ends and license validation. Each of the following environments must have one server with this role:

• Development
• Quality Assurance
• Pre-Production
• Production

The Deployment Controller can be installed as a standalone or sharing a server with a Front-end Role.

When compiling application code, its resource usage depends on:

• CPU for each application compilation process that consumes resources on one core.
• Memory for each compilation process.
• Network to deliver compiled applications to Front-ends.

Scheduler Role

The Scheduler role provides asynchronous execution of background tasks called timers, BPT processes and outbound email to an SMTP server.

It is activated by default in all Front-ends but can be deactivated in the Service Center administration console.

It is possible to select which Front-ends also have this role in the Service Center administration console on the Front-end servers menu in the Administration top menu.

The resource consumption of the Scheduler role happens at CPU level only and depends on the timer and BPT logic.

If you want to take this information offline, click here to get your Server Roles datasheet.
More Information

To learn more about how to set up your OutSystems Platform check the Designing OutSystems infrastructures guide.

Important: The information in this article applies only to OutSystems Platform on-premises or private cloud deployments.