



# Advanced Java: Distributed Applications

---

Length: Three days  
Level: Advanced

---

## DESCRIPTION

This course presents multiple Java technologies that facilitate the development of distributed applications. The course covers all the architectural layers from the bottom, with basic Java networking services such as TCP and UDP, to the top, with Java services such as RMI, JMS, Java Mail and JNDI.

---

## OBJECTIVES

Upon completion of the course, participants will be able to:

- Describe layering patterns that support a reliable, secure and scalable software architecture
  - Implement basic networking services using protocols such as TCP, UDP, and HTTP
  - Manage persistent data using the JDBC
  - Implement basic distribution mechanisms with RMI / IIOP
  - Use naming and directory services with JNDI
  - Handle e-mails with JavaMail
  - Implement asynchronous messaging between concurrent processes using JMS
  - Configure and test security options
-

## **TOPICS**

- Architecture and Layering Patterns
  - Networking with TCP, UDP, and HTTP
  - Persistence with JDBC
  - Distribution with RMI / IIOP
  - Naming and Directory Services with JNDI
  - E-Mails with JavaMail
  - Asynchronous Messaging with JMS
  - Security
- 

## **AUDIENCE**

- Software Developers
  - Software Architects
- 

## **PREREQUISITES**

- Good understanding of Java fundamentals
- Some Java programming experience