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AN AUTONOMOUS INSTITUTION
Approved by AICTE, New Delhi and Affiliated to
Anna University, Chennai

V SEMESTER

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

19TS501 - Cloud Computing
(Regulation – 2019)

UNIT – II

Topic: 2.4. Publish Subscribe Model

Academic Year 2024 – 2025 (Odd Semester)

2.4 Publish-Subscribe Model

Publish-and-subscribe message model introduces a different message passing strategy, one that is based on notification among components.

There are two major roles:

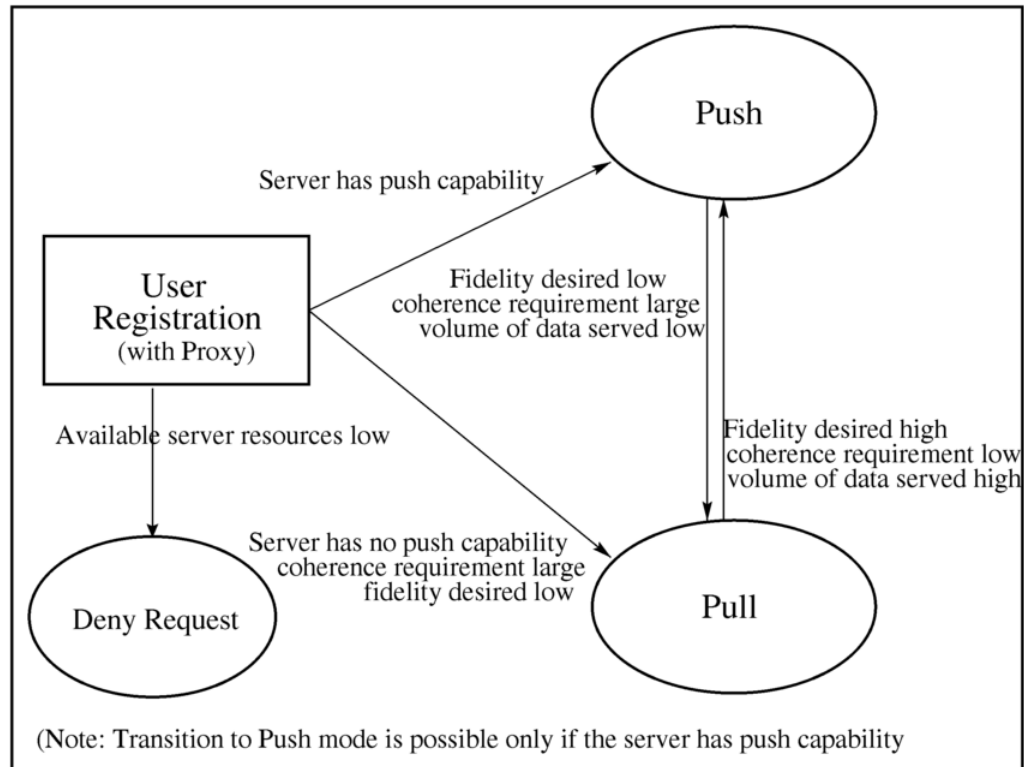
The publisher and the subscriber

The publisher provides facilities for the subscriber to register its interest in a specific topic or event.

Specific conditions holding true on the publisher side can trigger the creation of messages that are attached to a specific event.

A message will be available to all the subscribers that registered for the corresponding event.

There are two major strategies for dispatching the event to the subscribers:



Push strategy

In this case it is the responsibility of the publisher to notify all the subscribers using method invocation.

Pull strategy

In this case the publisher simply makes available the message for a specific event and it is responsibility of the subscribers to check whether there are messages on the events that are registered.

Publish and subscribe model is very suitable for implementing systems based on the one to many communication model and simplifies the implementation of indirect communication patterns.

It is, in fact, not necessary for the publisher to know the identity of the subscribers to make the communication happen.

