

Mobile IP Routing: Proactive vs Reactive

[Phone view](#)

Storyboard timeline for teaching & review

[Overview](#)[Proactive](#)[Reactive](#)[Comparison](#)

Legend

Roles

 Mobile node

 Home agent

 Foreign agent

 Router

Links

Data path

Control msg

Glossary

Proactive: keeps routes fresh with periodic updates.

Reactive: discovers route only when needed.

Intro

Storyboard

Step 1 of 3 -

Basic

Mobile IP

Neutral concept

Step 1: Node attaches



Mobile node starts in its home network with a data path via the home agent.

◀

Next

▶

Prev

Auto play

Context

Current frame - Overview

What you see:

- Home vs foreign networks.
- Mobile node moving and registering.
- Data tunneled via the home agent.

Key terms

- Home address: stable IP of the mobile node.
 - Care-of address: location in foreign net.
 - Tunnel: HA → FA encapsulation.
- Pros / cons
- Stable identity despite movement.
 - Extra control traffic & encapsulation.

Discussion notes

Use pins (e.g., 1) to discuss route choices, tunnelling overhead, or handover timing.

Storyboard timeline

Tap a step to jump - Ideal for lectures



Pause

1
Intro

2
Handover

3
Tunnel

P1-P5
Proactive

R1-R5
Reactive

C1-C2
Compare