A variant of Baer's theorem

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The classical Baer theorem from 1950's states that if endomorphism rings of infinite-dimensional vector spaces over a division ring are isomorphic, then the vector spaces themselves are isomorphic, and there are numerous generalizations and variations of this result in different directions. I will discuss yet another variation, where the full endomorphism rings are replaced by some subrings of finitary maps, and will pose some open questions.