1012-55-117 Ethan S. Devinatz* (devinatz@math.washington.edu), Department of Mathematics, University of Washington, Box 354350, Seattle, WA 98195. Hopf algebroids and group actions. We give necessary and sufficient conditions for certain complete Hopf algebroids to arise from the action of a profinite group on a ring. This gives a short proof of part of Morava theory and is related to our project of understanding $H_c^*(G, E_{n*})$ using Hopf algebroid techniques, where G is a closed subgroup of the nth extended Morava stabilizer group. (Received September 15, 2005)