In this presentation, we consider a stochastic vector-host epidemic model with direct transmission under regime-switching. First we examine the existence of a unique positive global solution. Then we study some stability conditions, such as almost sure exponential stability, pth moment exponential stability and stochastic asymptotic stability. These stabilities will help us to determine when the infection will die out. Additionally, we provide conditions for the existence and uniqueness of a stationary distribution. Finally, we present numerical simulations to illustrate some of the theoretical results. (Received September 19, 2016)