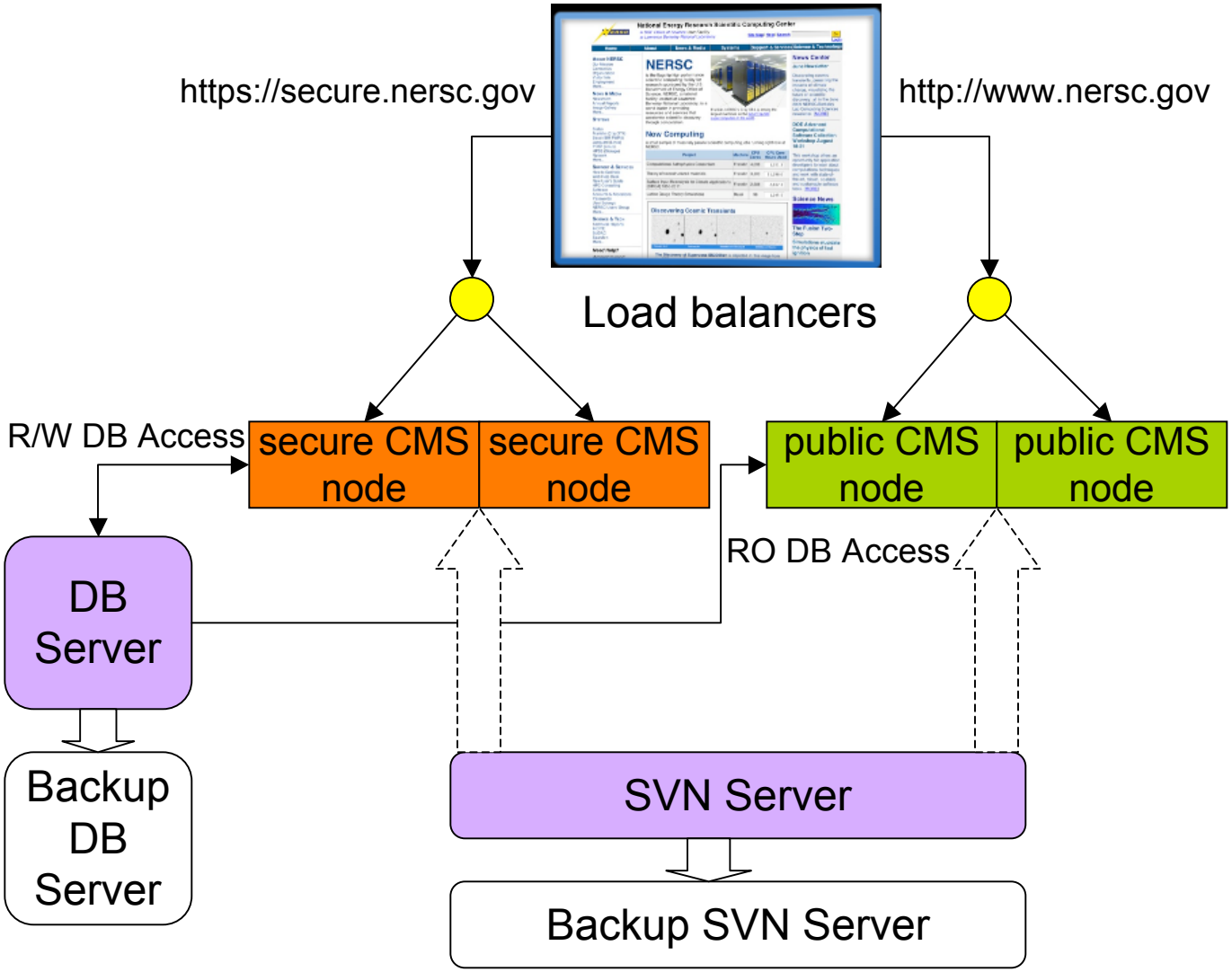Proposed Backend Architecture