



## Cloud Automation Transcript

With the advent of the cloud, the development of Infrastructure as Code (IaC) and processes such as DevOps and DevSecOps automation became a fundamental aspect of modern computing systems, and several components were released to carry out the automated parts of the process. Solutions such as Chef, Puppet and Ansible provide command-based systems that depend on recipes or playbooks that contain declarative instructions about what to do, not how to do it. These solutions are often used to carry out configuration management activities on virtualised systems. All these solutions are written in common scripting languages (such as Ruby or Python) and abstract away the intricacies of the underlying application. There are proprietary tools (such as cloud formation) and open source tools (such as terraform) that are used to maximise the benefits of IaC and recreate cloud architectures in a completely automated way. A SE project manager could create the recipes or playbooks for the configuration management tools discussed, but it is better that they have the technical skills to read and understand them, while leaving the configuration to developers, engineers or other technical staff. Nonetheless in a DevOps or DevSecOps pipeline, automation is a key function and the SEPM should be able to check and assure the steps involved.