Return-Oriented Programming (ROP)

ROP is a relatively new exploit method which exploits without code injection, unlike with the stack overflow attack where we could only divert the direction of one function ROP attack can attack multiple smaller function with the Shellcode Gadgets. This attack can be described as ‘Ransom Note’ where the culprit takes cutout of letters from magazines and puts them together to form instructions, this is very similar to the ROP attack there you takes pieces of instructions and form a sequence of instructions.