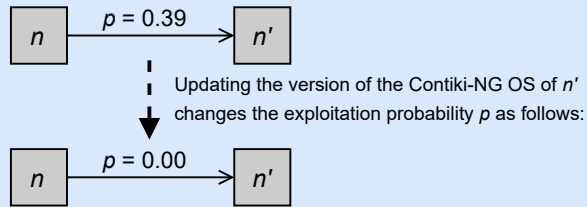
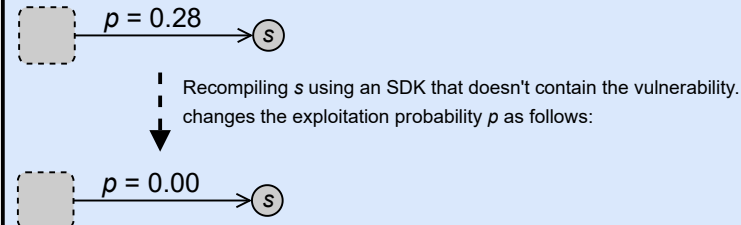


# Proposed attribute change adaptation patterns

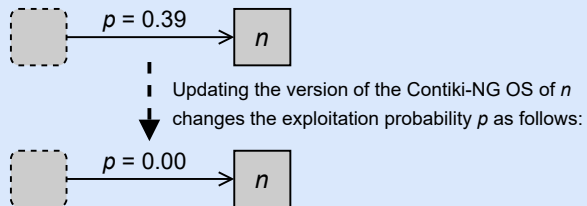
**Adaptation pattern for CVE-2022-35927:** IF two nodes  $n$  and  $n'$  are connected via a link **AND**  $n'$  contains an outdated version of Contiki-NG OS **THEN** update the version of the Contiki-NG OS of  $n'$ .



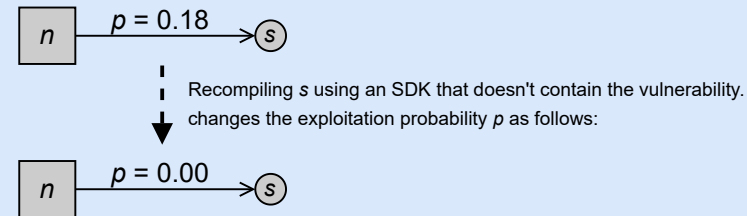
**Adaptation pattern for CVE-2021-40830:** IF software component  $s$  was compiled with SDK which contains vulnerability **THEN** recompile  $s$  using an SDK that doesn't contain the vulnerability.



**Adaptation pattern for CVE-2022-35927:** IF node  $n$  contains version of Contiki-NG OS with vulnerability **THEN** update the version of the Contiki-NG OS of  $n$ .



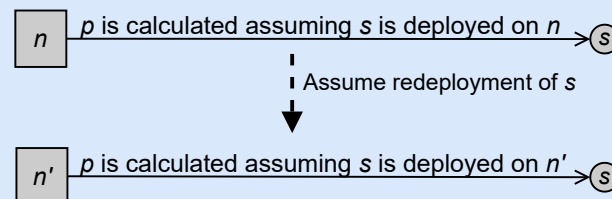
**Adaptation pattern for CVE-2021-22547:** IF software component  $s$  is deployed on node  $n$  **AND**  $s$  was compiled with SDK which contains vulnerability **THEN** recompile  $s$  using an SDK that doesn't contain the vulnerability.



## Proposed migration adaptation pattern

### Migration adaptation pattern

IF software component  $s$  is deployed on node  $n$  **THEN** assume  $s$  is deployed on node  $n'$  and apply all risk rules based on this assumption



### Legend

= Node in attack graph  
 = Entry vertex  
 = Software component in attack graph  
 $\xrightarrow{p}$  = Risk edge with an exploitation probability  $p$