

# Samba and the AI security tsunami

Douglas Bagnall, Catalyst IT and Samba team

# Less specific than originally planned

a couple of weeks ago:

*the security release that was scheduled for tomorrow, will be postponed due to new problems that have been identified with one of the fixes.*

Strong belief in AI efficacy is not necessary

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1. report security bugs in Samba!
2. ???
3. profit!!

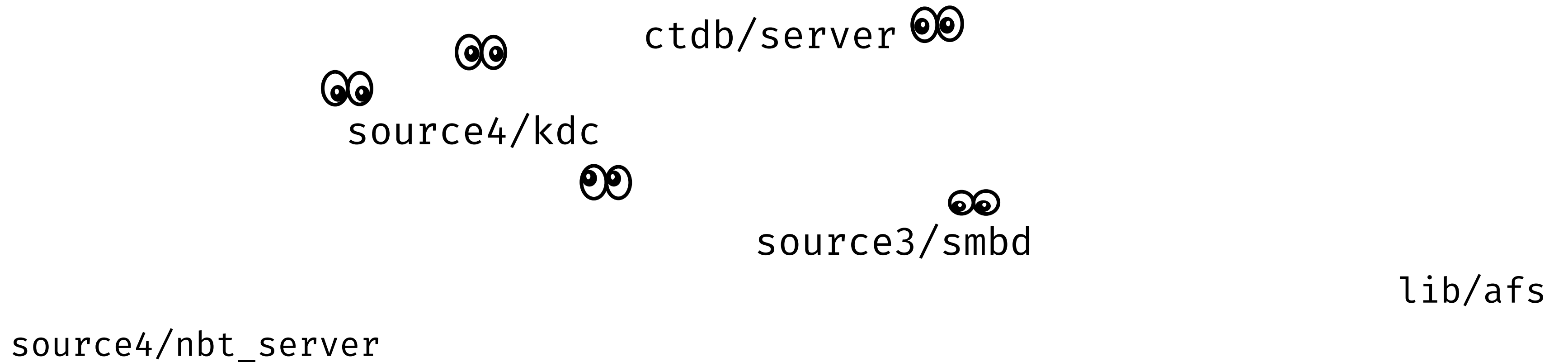
## Strong belief in AI efficacy is not necessary

With this level of investment, psychic octopuses would find bugs

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2. *pay us to do this to your code before evildoers do*
3. profit!!

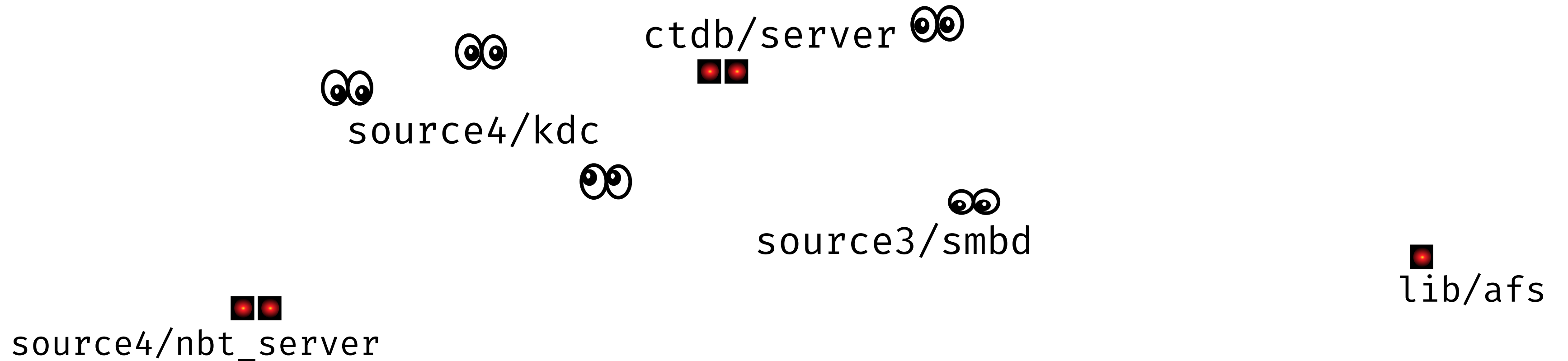
“given enough eyeballs, all bugs are shallow”

Never convincing, since our eyes that know where not to look



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## Reports up until March 2026

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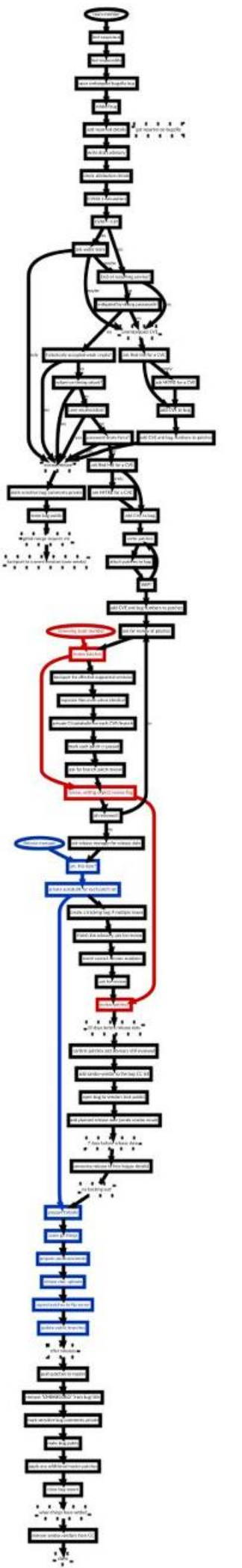
<h@ckor> I copy samba code into threads, and it breaks!

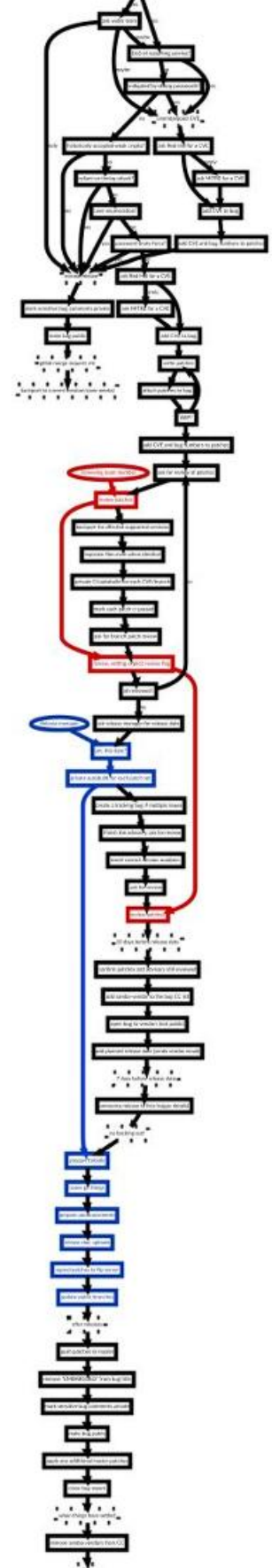
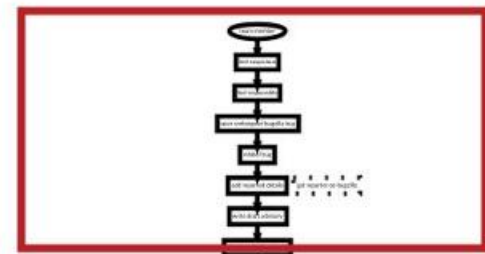
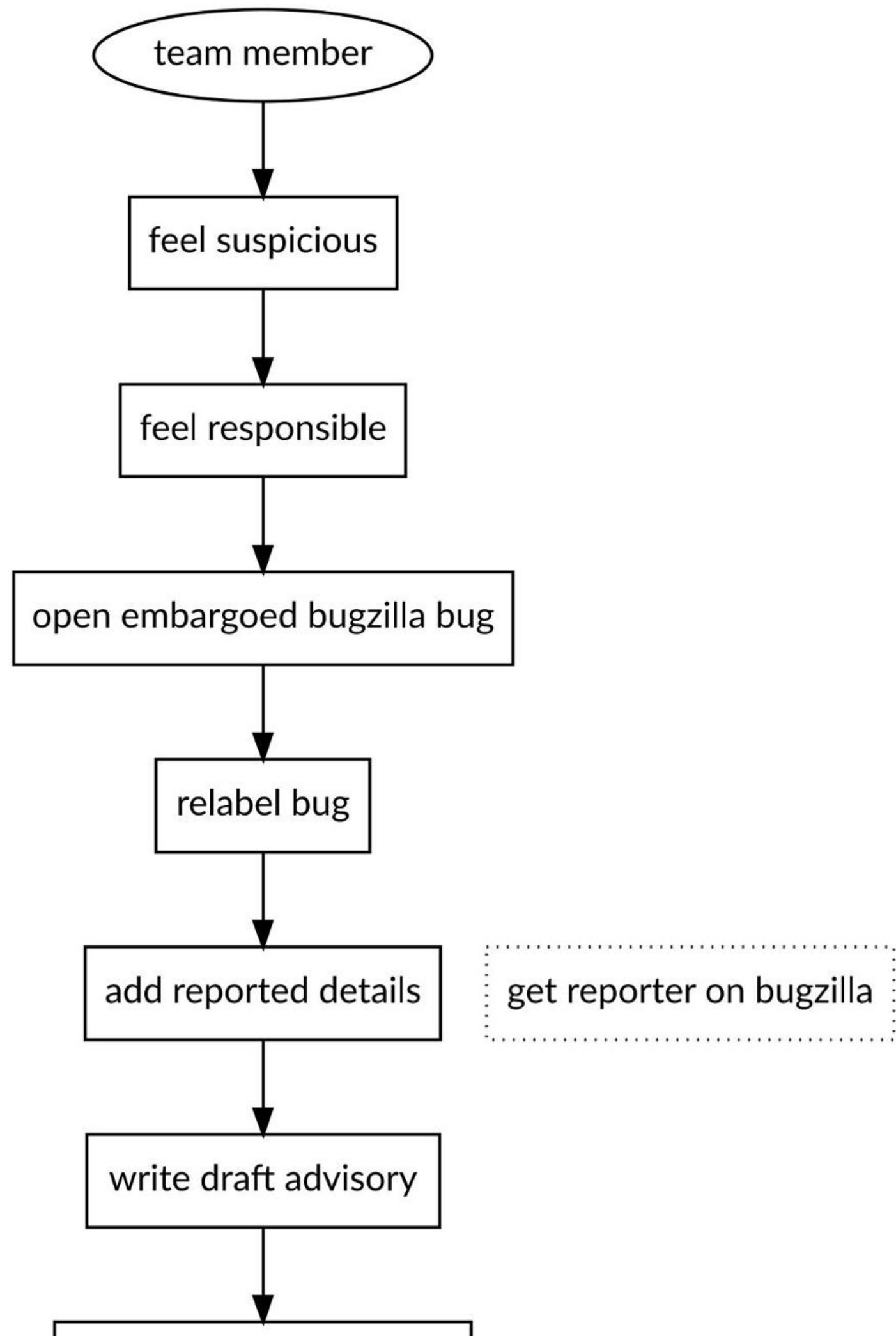
<volker> why would you do that?

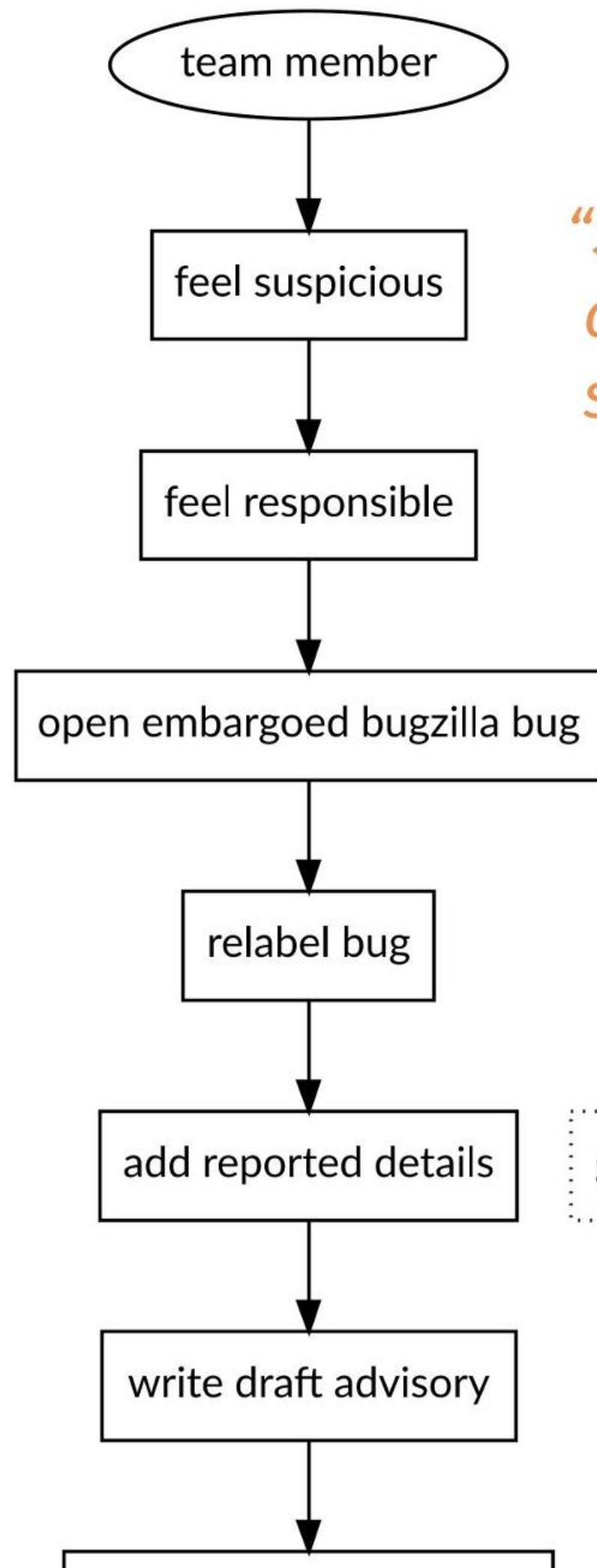
<h@ckor> ... sorry, bye

# Security release process

[https://wiki.samba.org/index.php/Samba\\_Security\\_Process](https://wiki.samba.org/index.php/Samba_Security_Process)

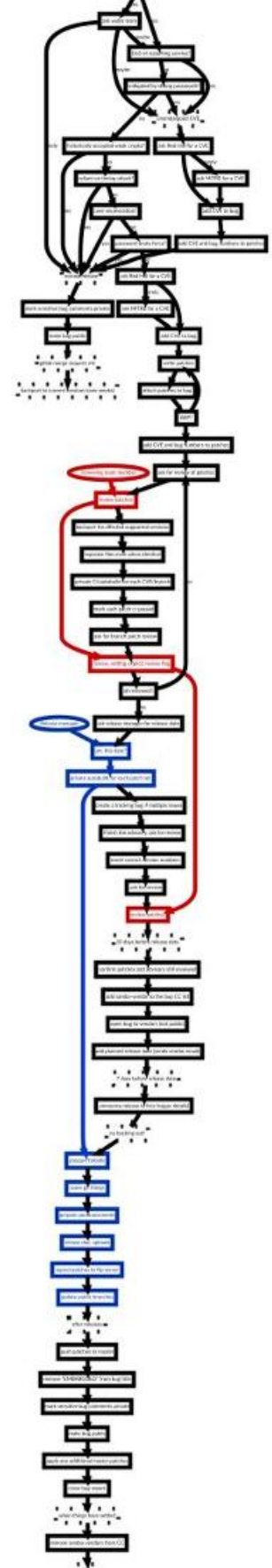
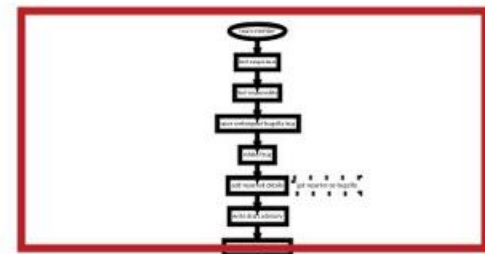


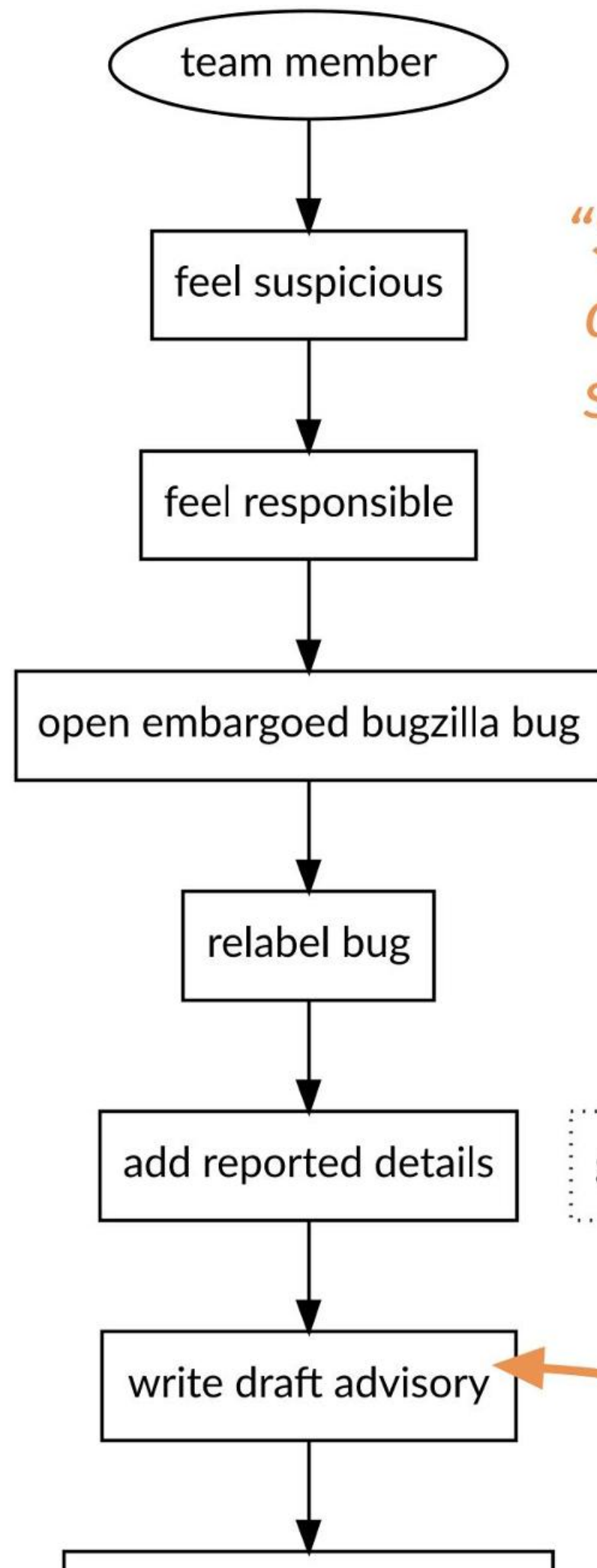




*“Someone should feel responsible and make sure that it's really a security defect.”*

get reporter on bugzilla



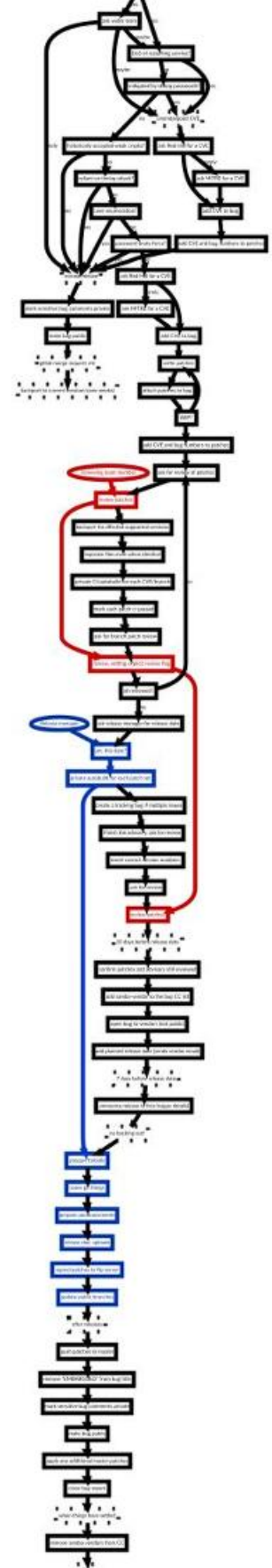
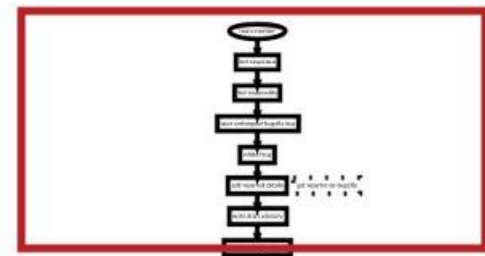


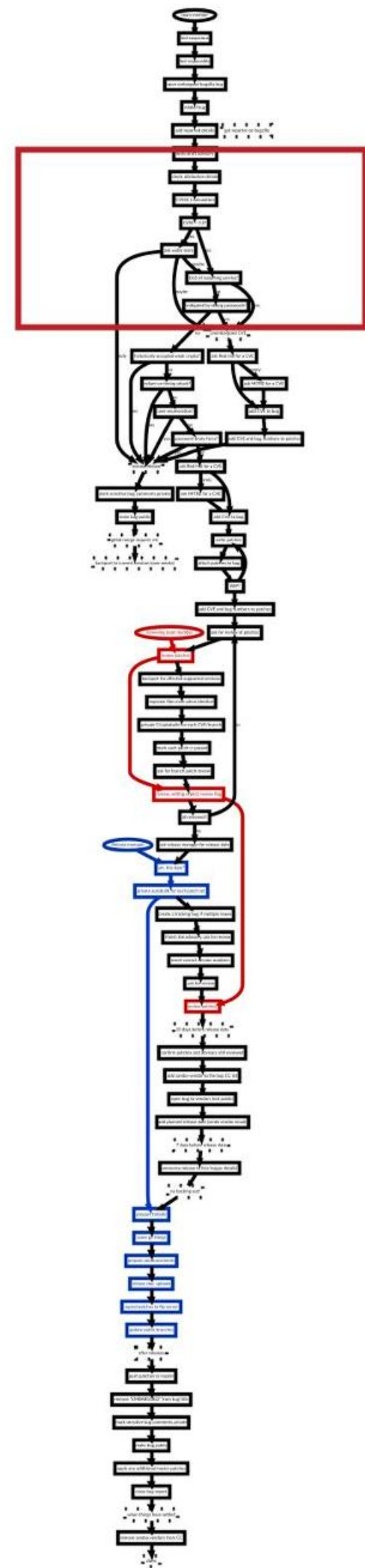
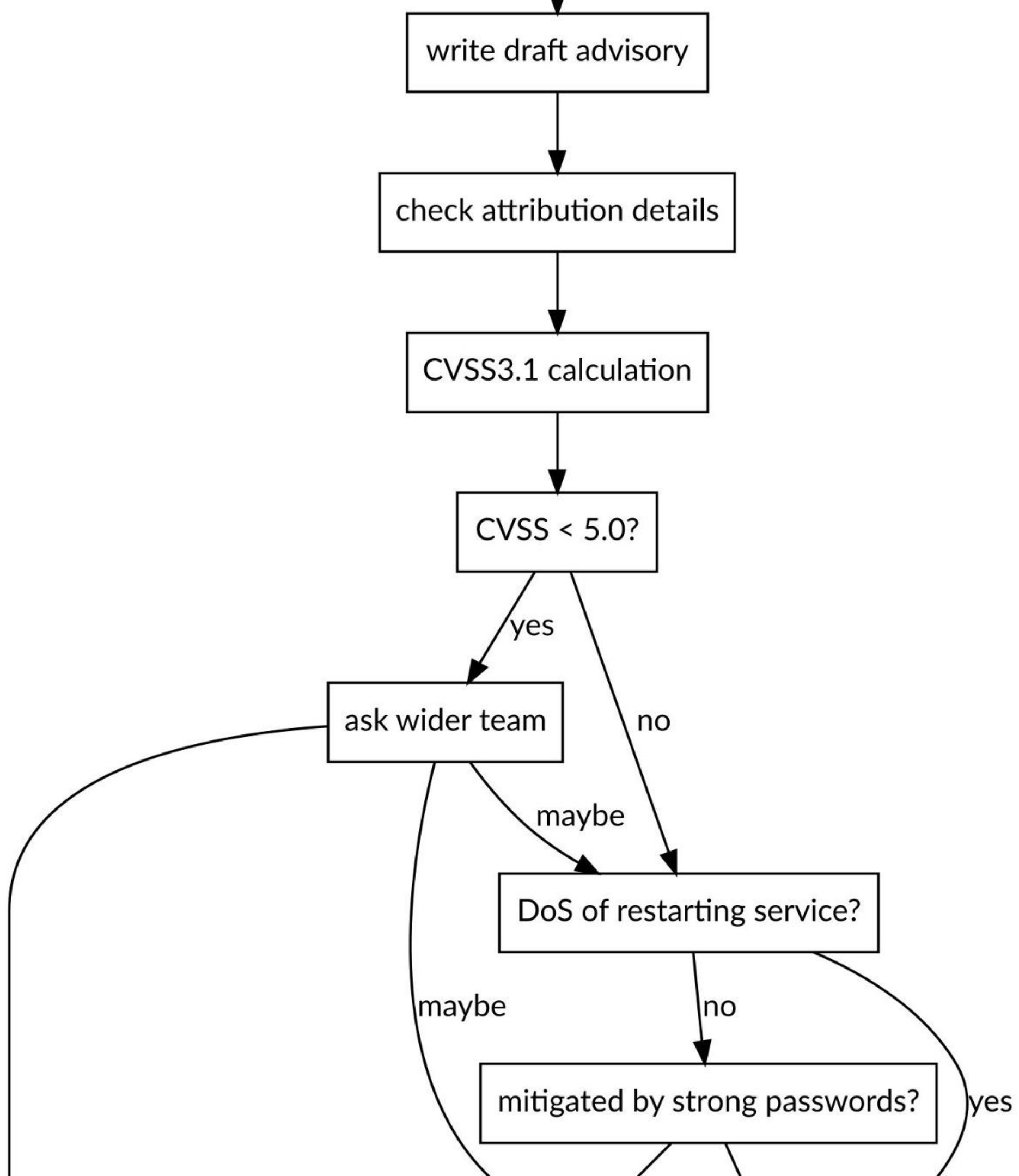
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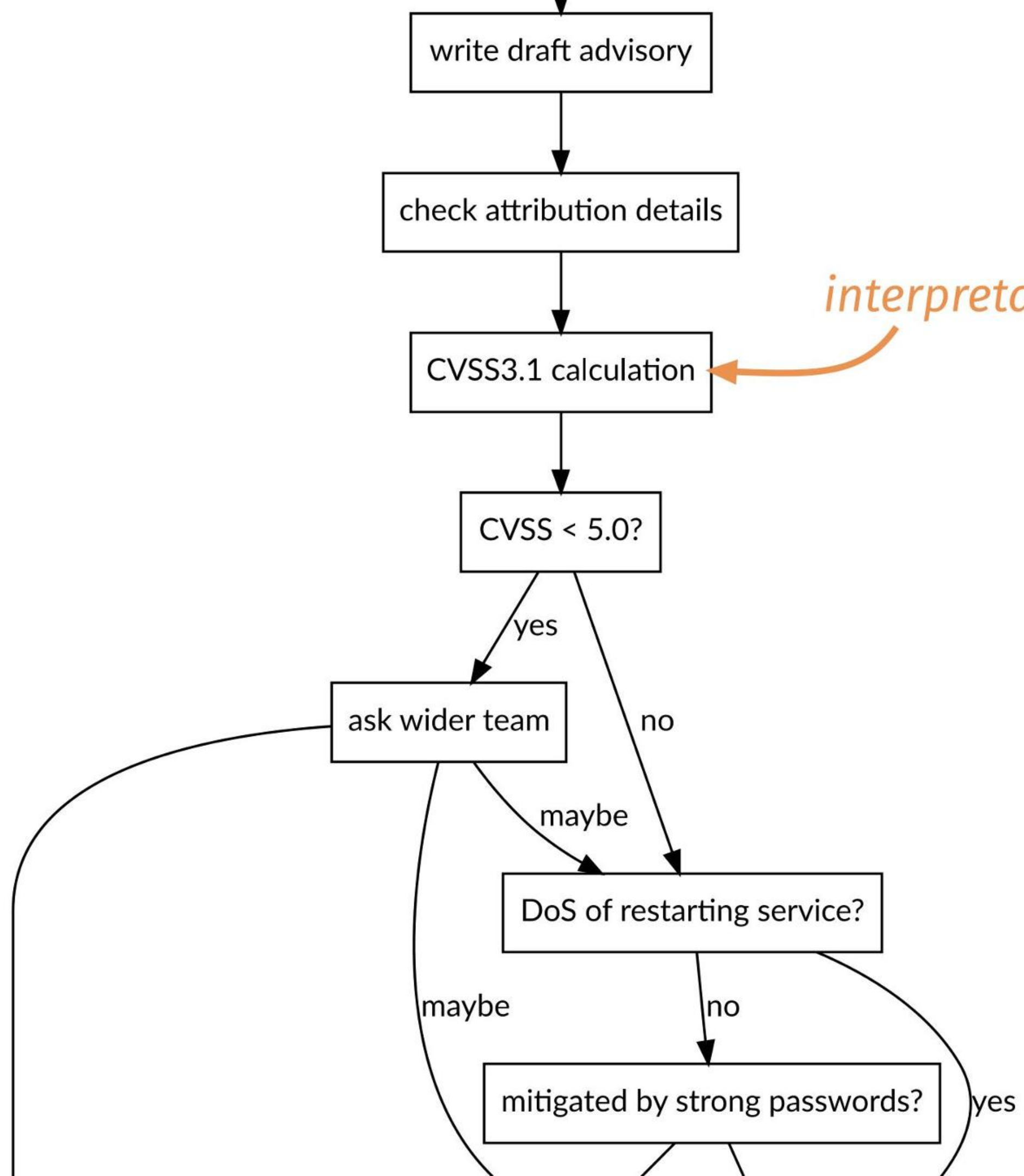
get reporter on bugzilla

*sometimes difficult*

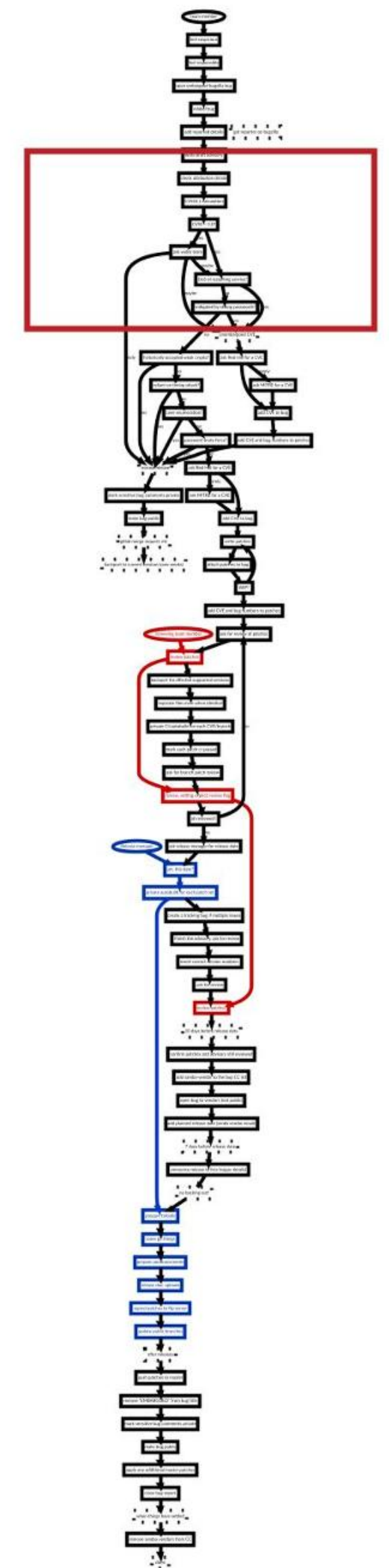
*often left till later*

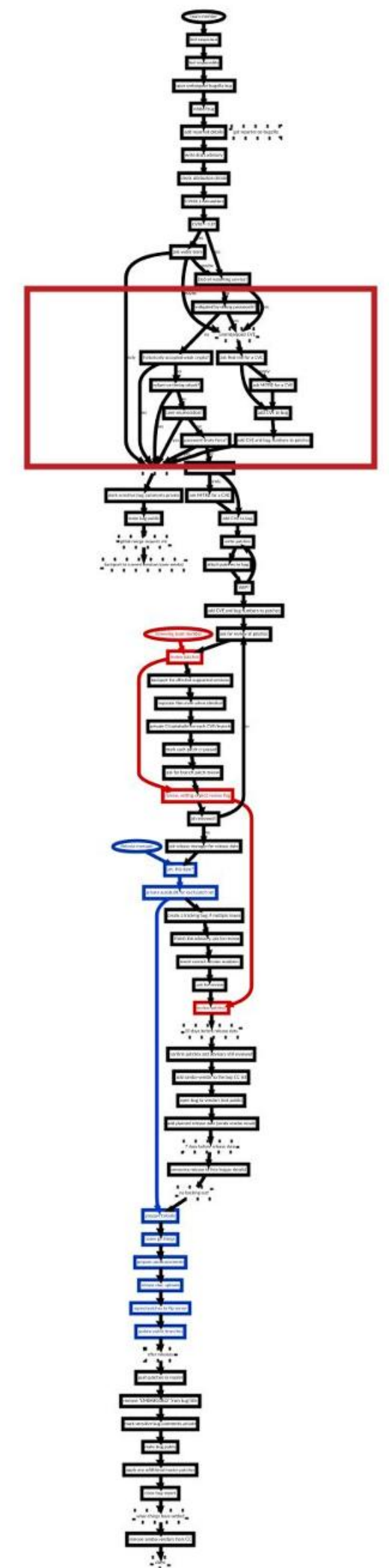
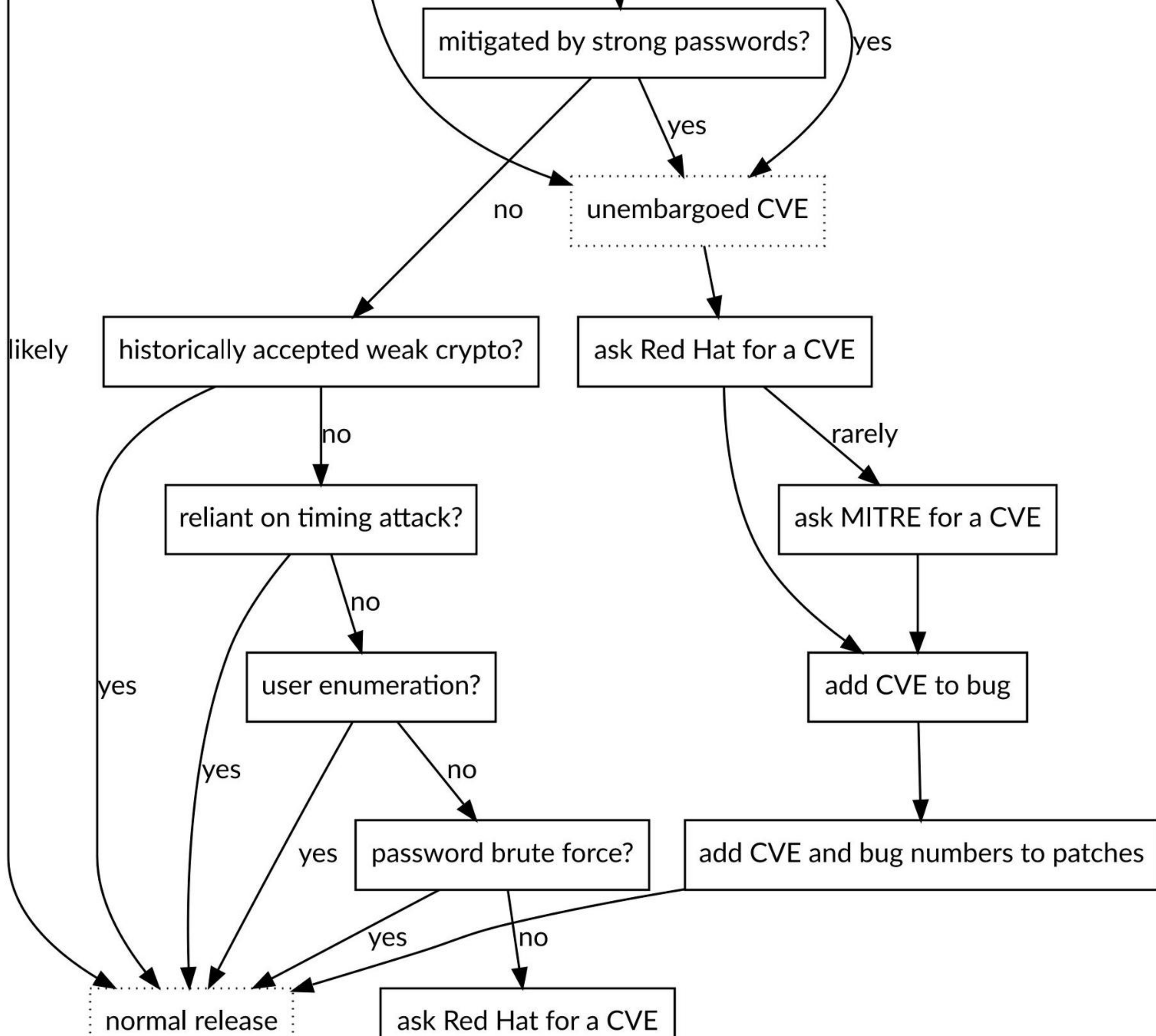


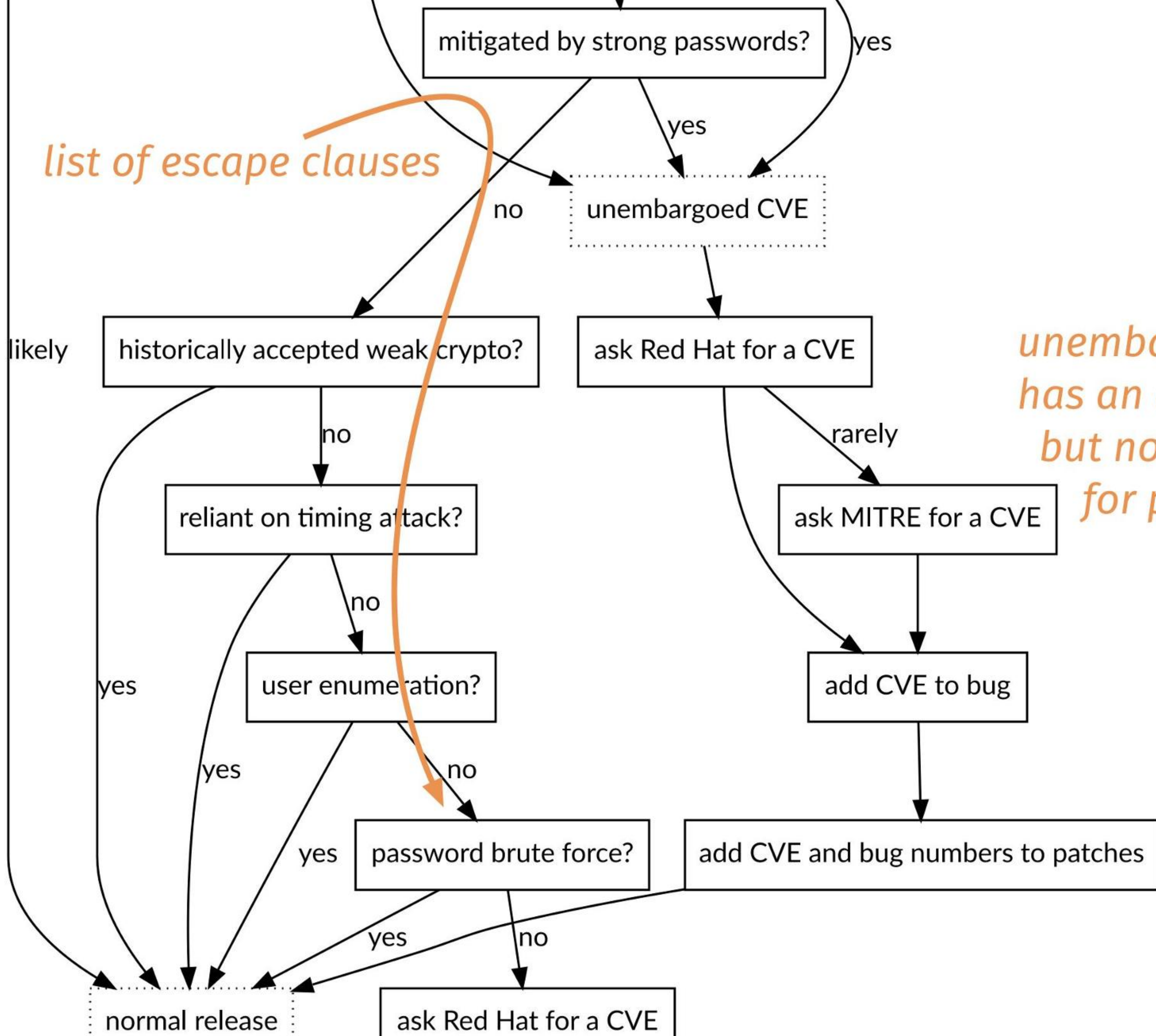




*interpretations sometimes differ*

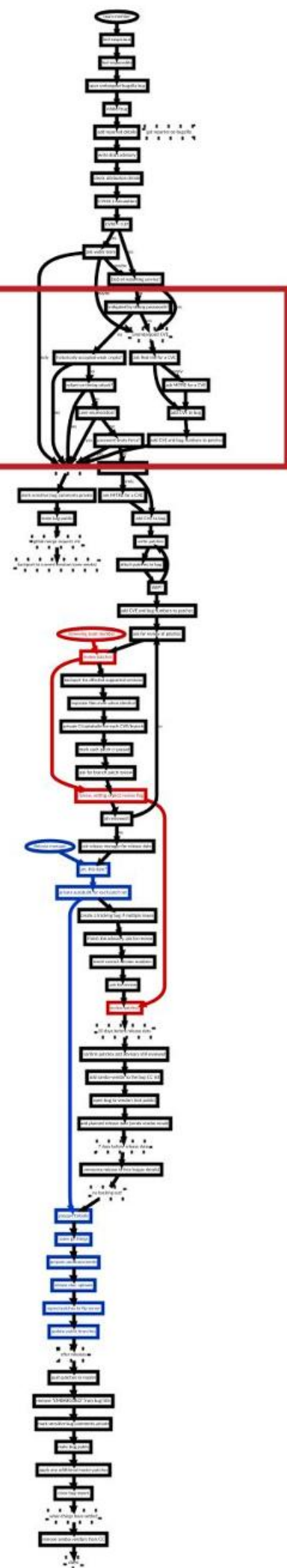
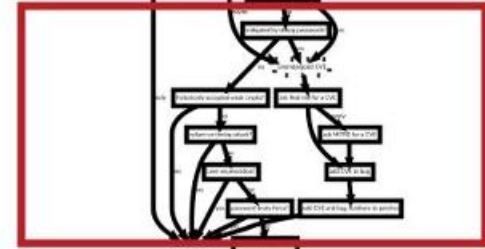


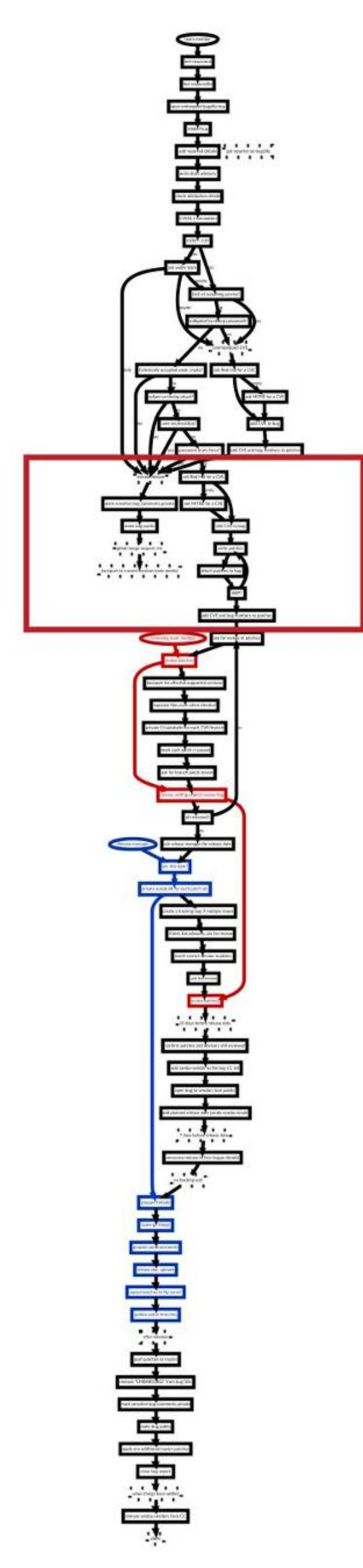
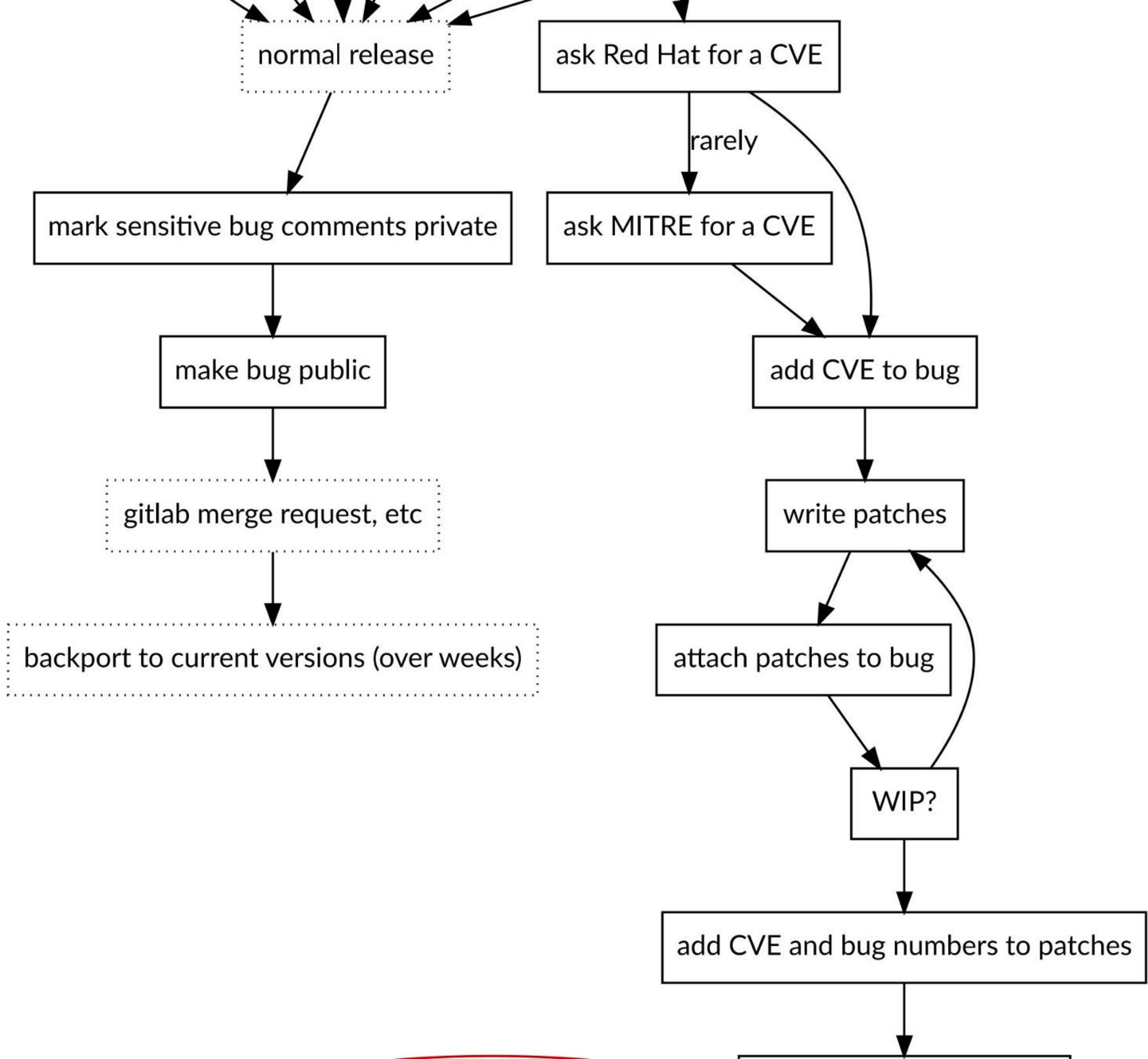


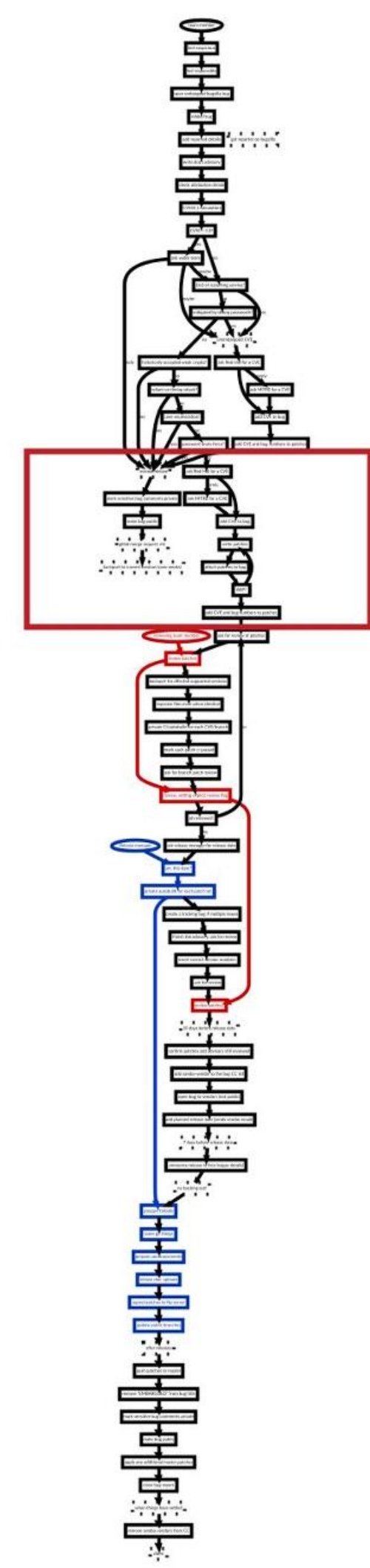
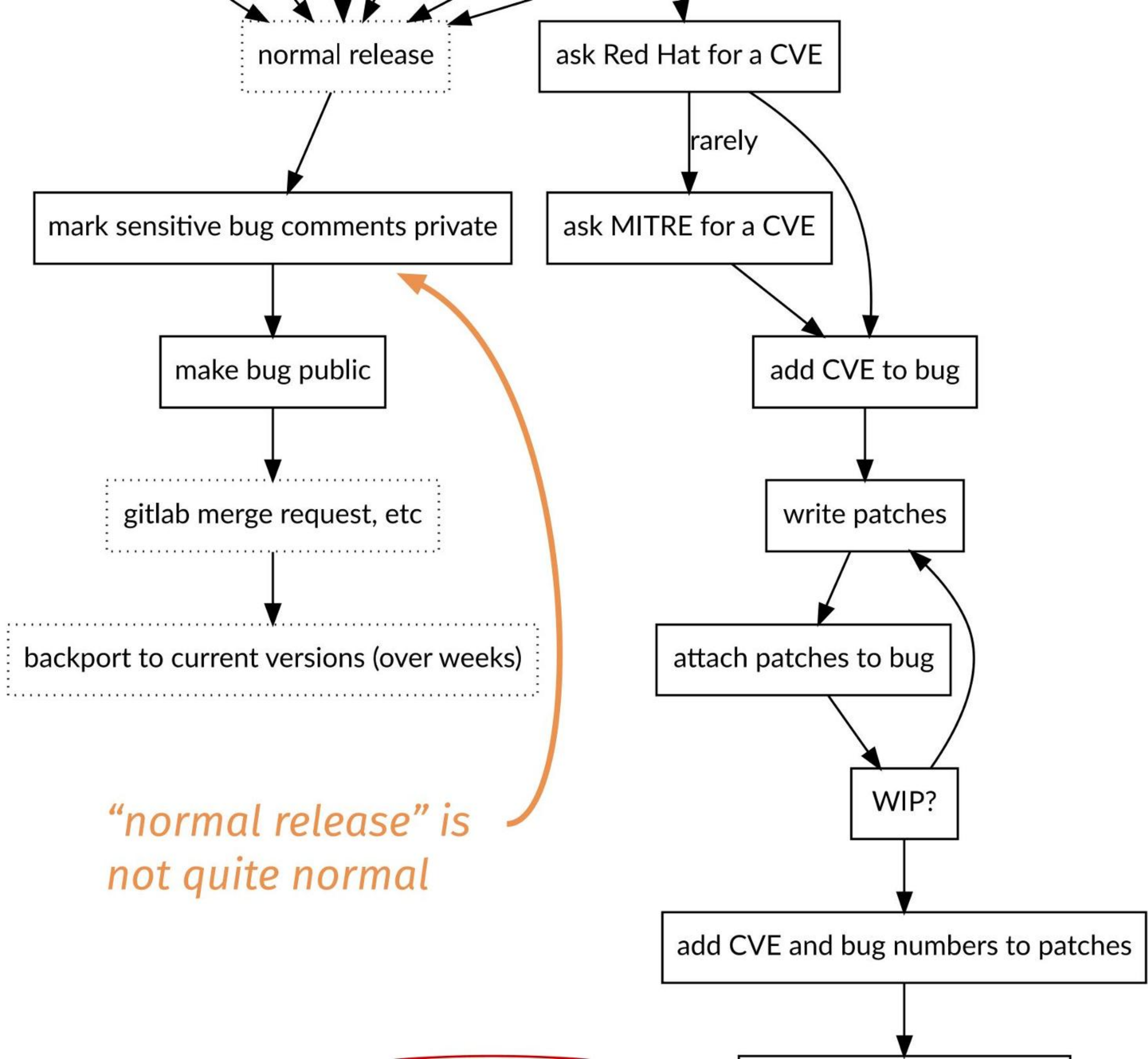


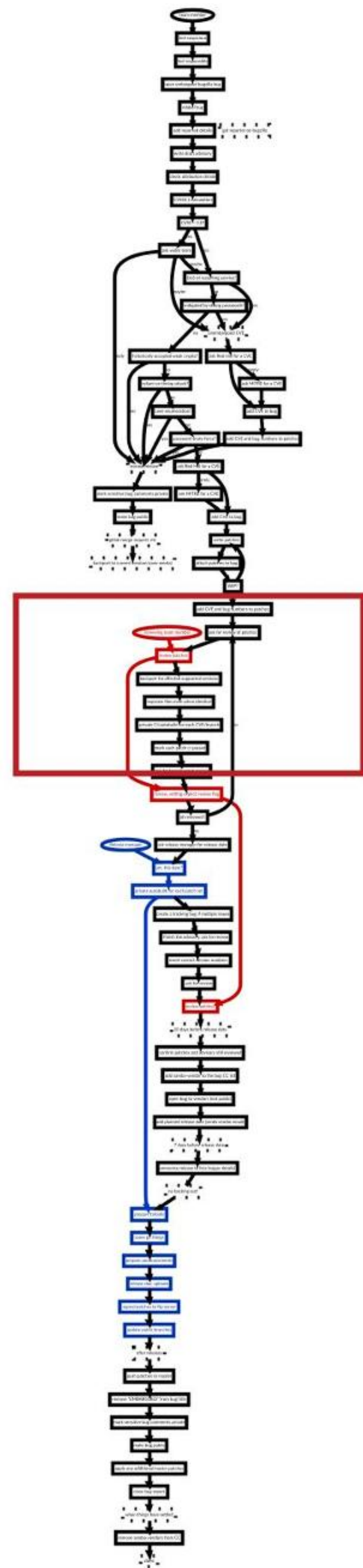
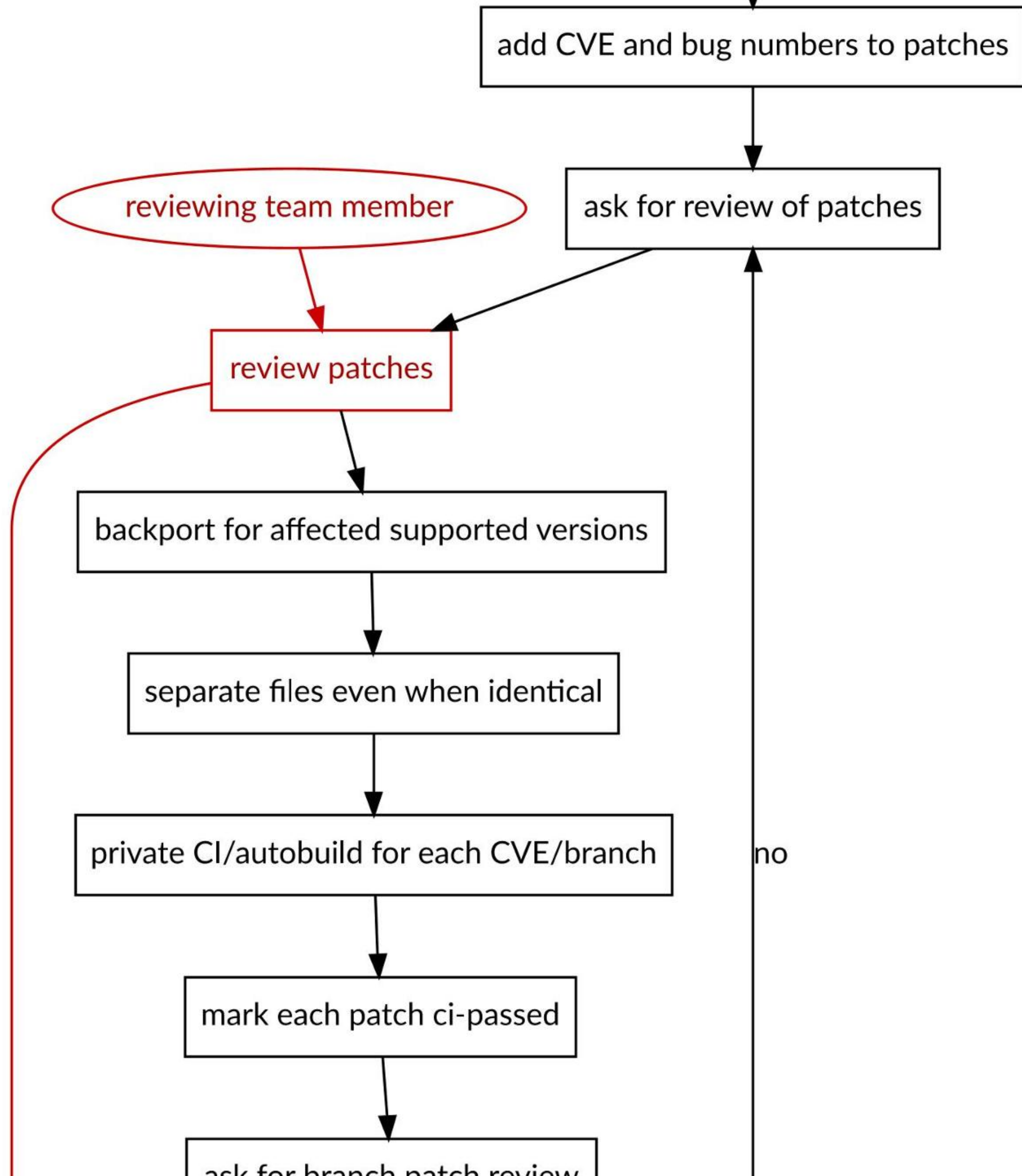
*list of escape clauses*

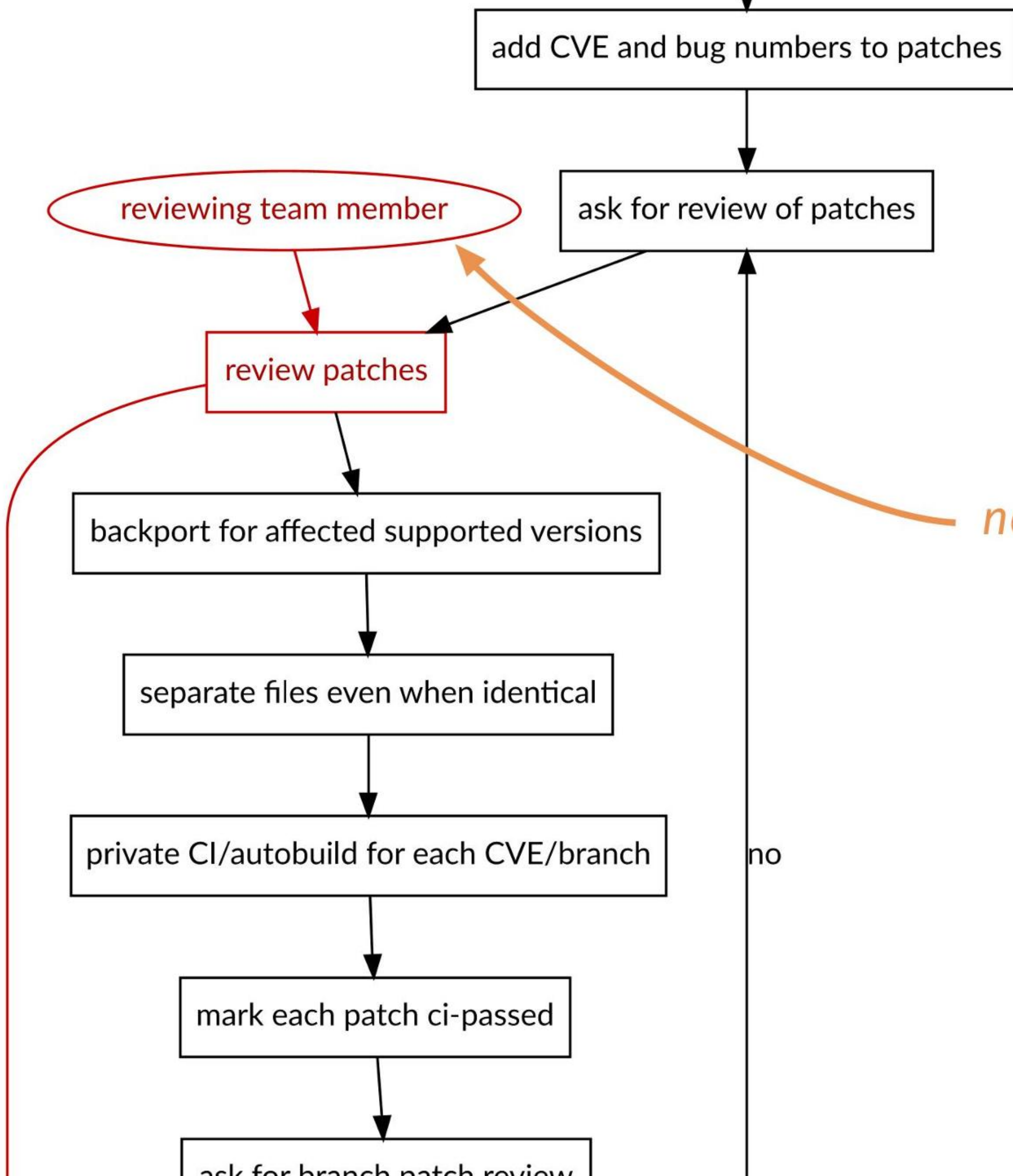
*unembargoed CVE has an advisory, but no process for publishing it.*











reviewing team member

review patches

ask for review of patches

backport for affected supported versions

separate files even when identical

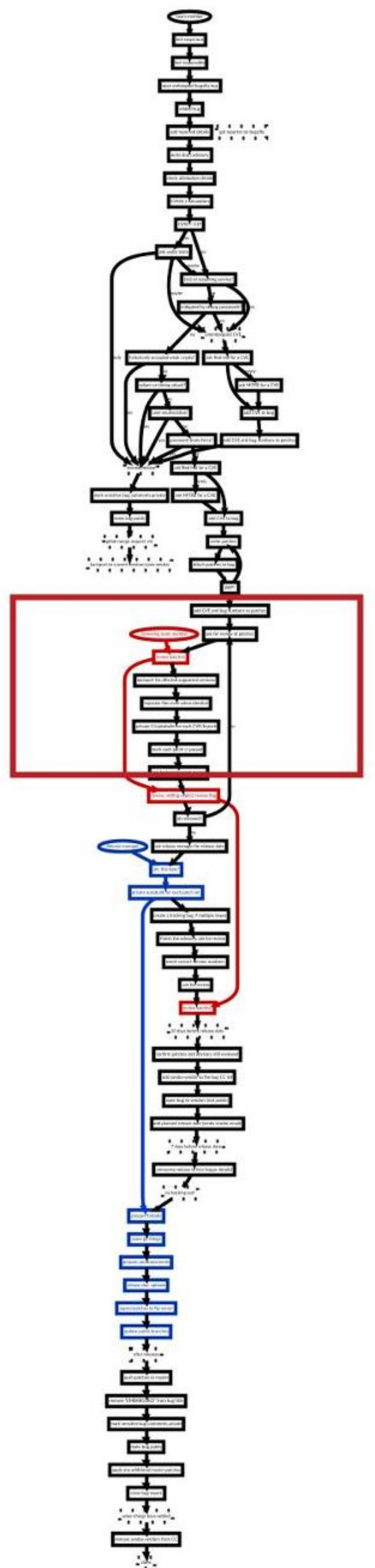
private CI/autobuild for each CVE/branch

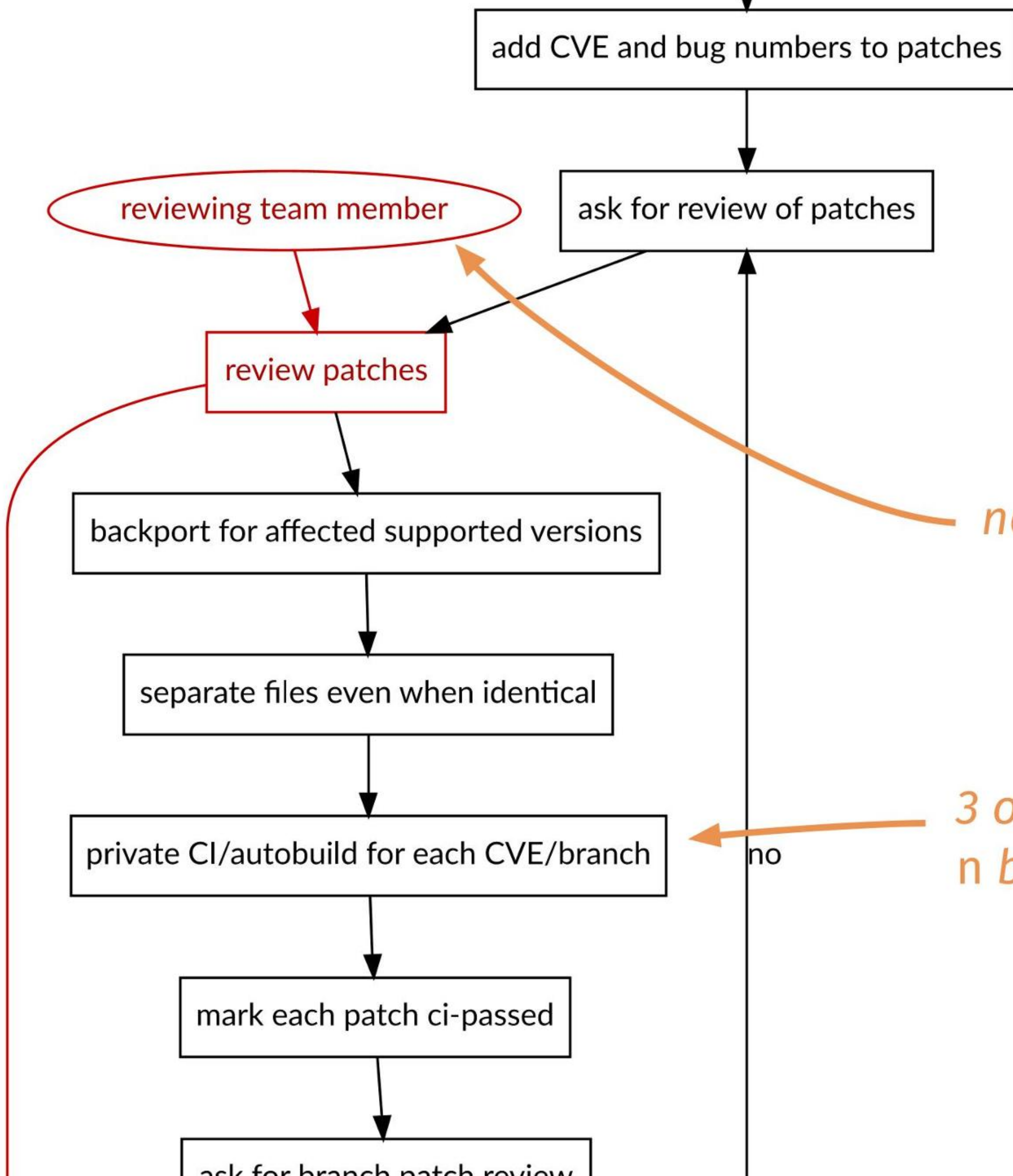
mark each patch ci-passed

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*new cast member*

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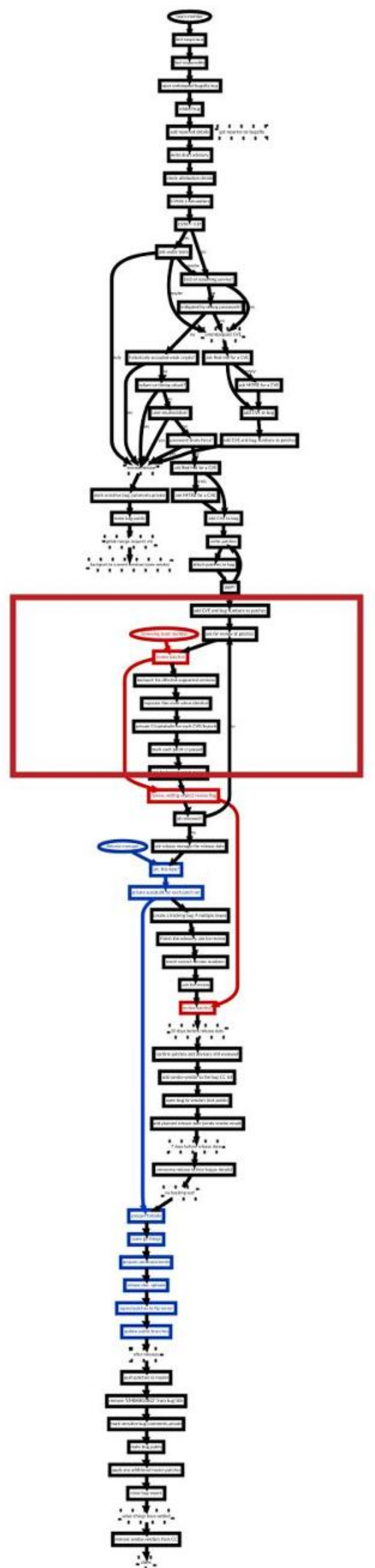
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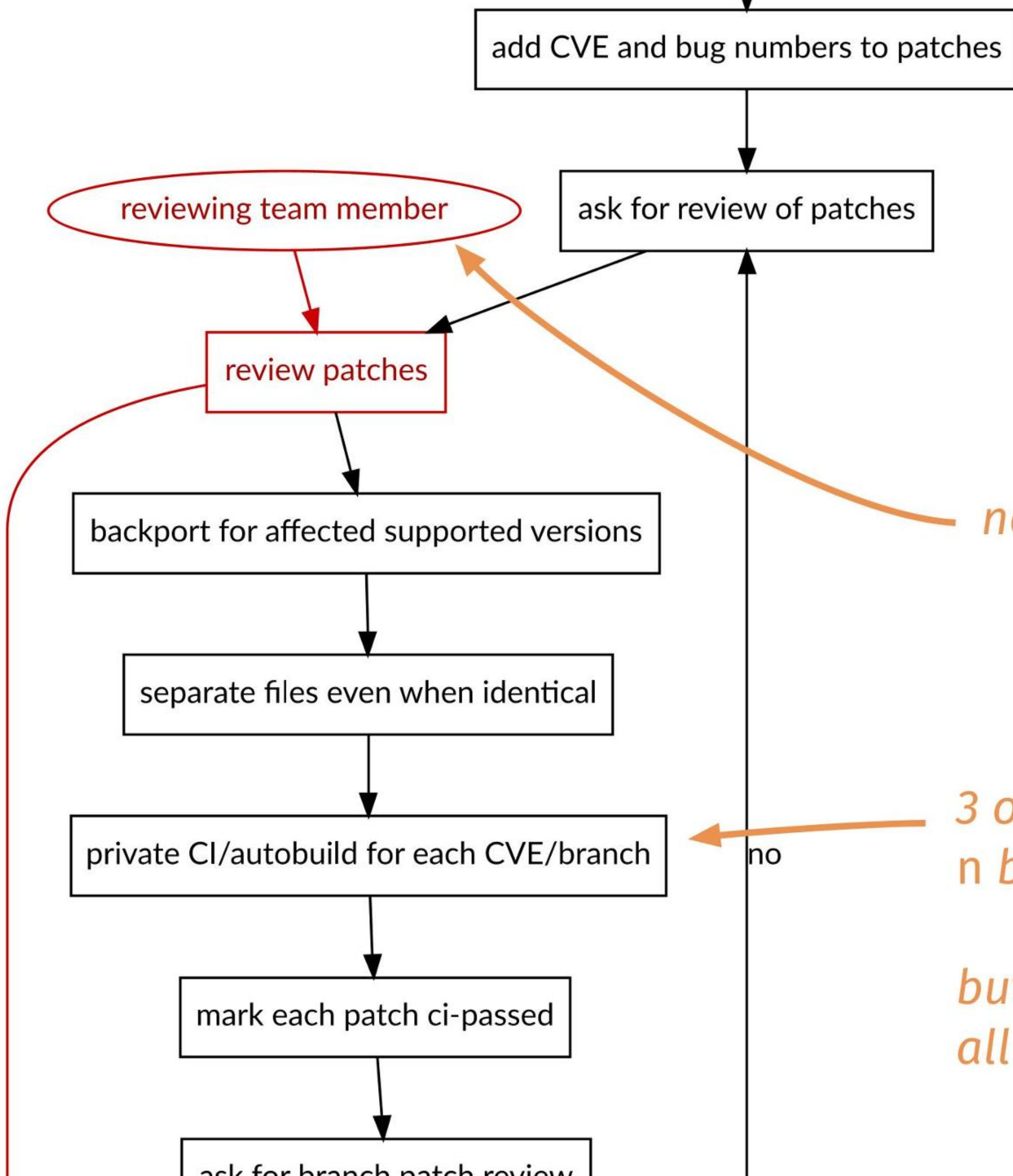
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*3 or 4 supported branches,  
n bugs per security release*

no

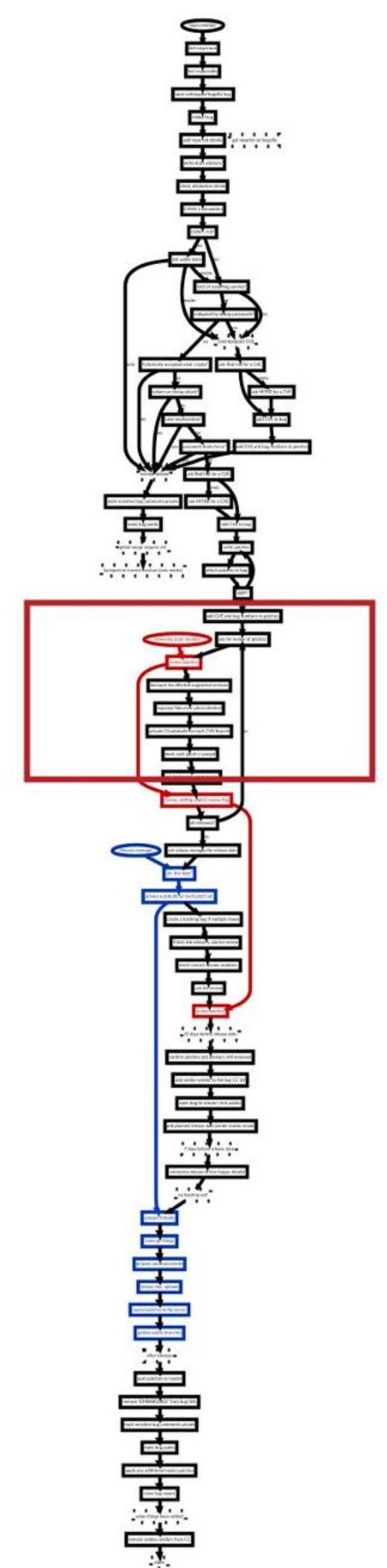


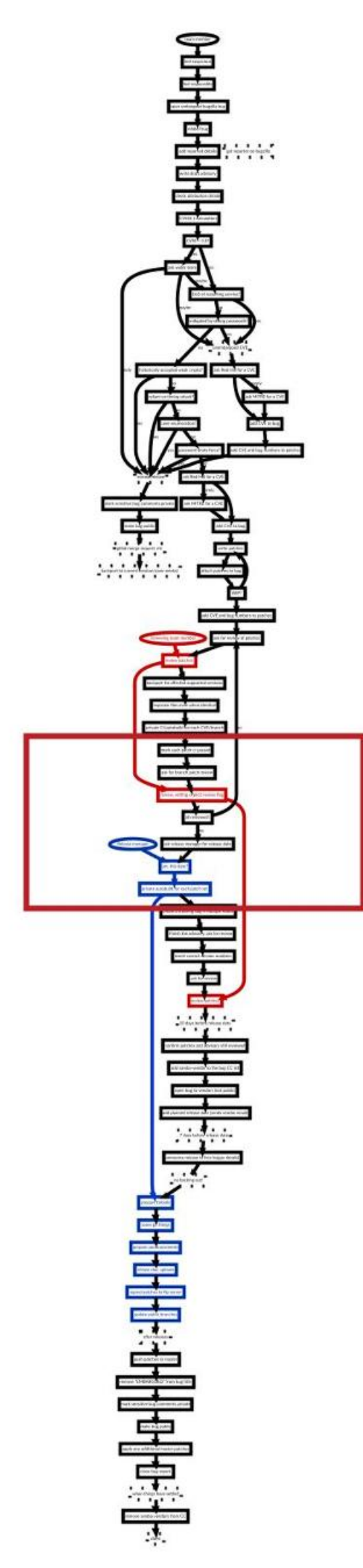
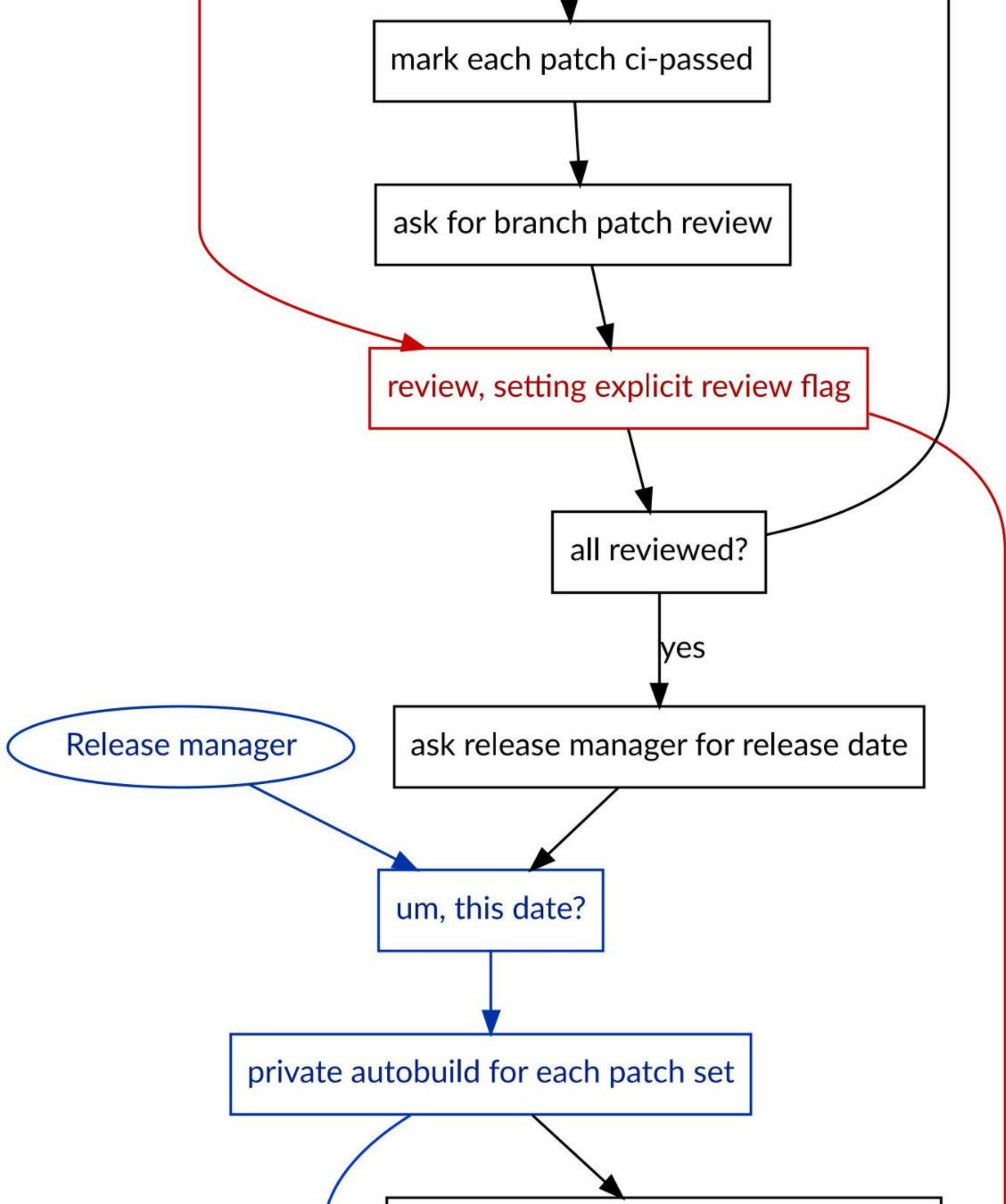


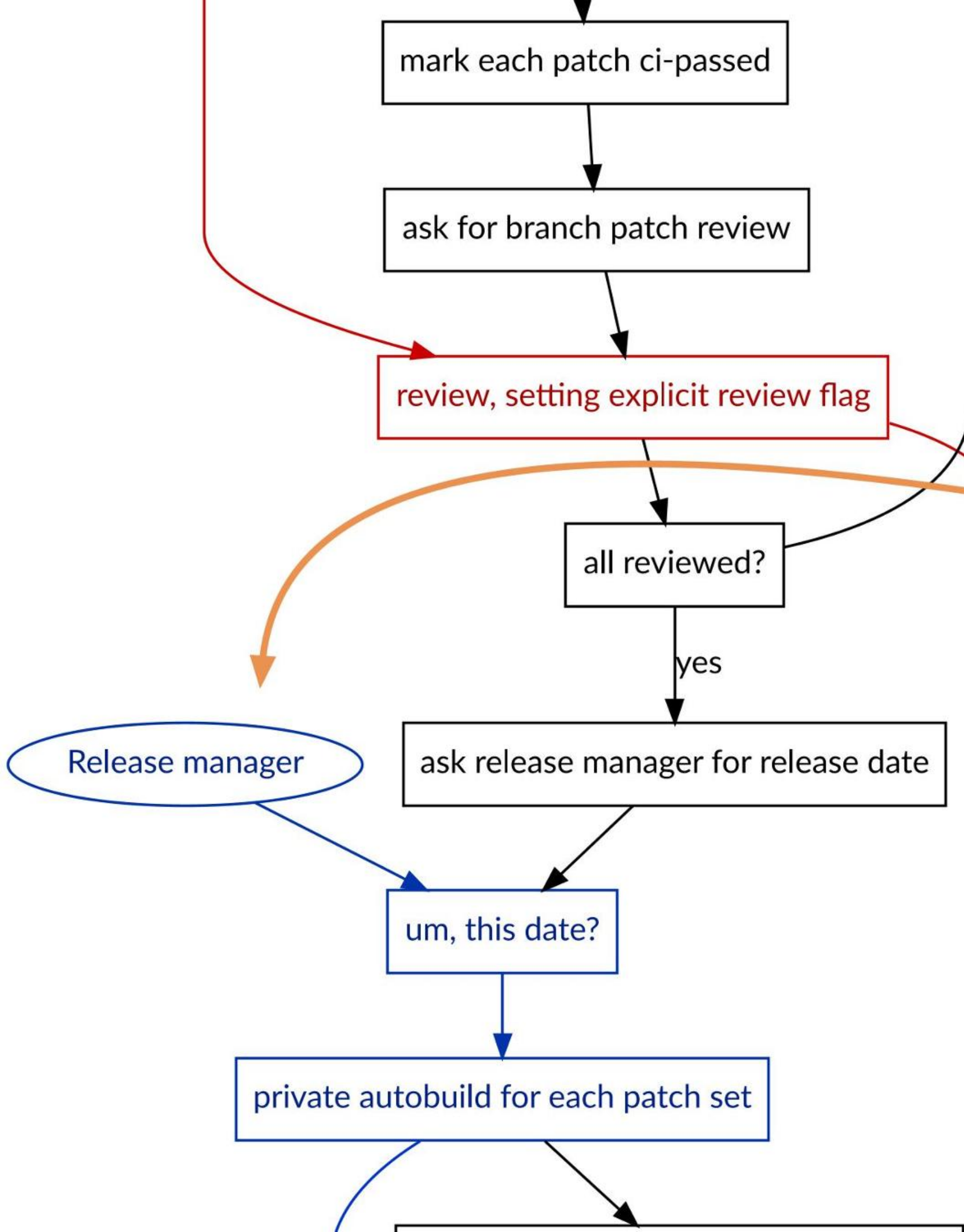
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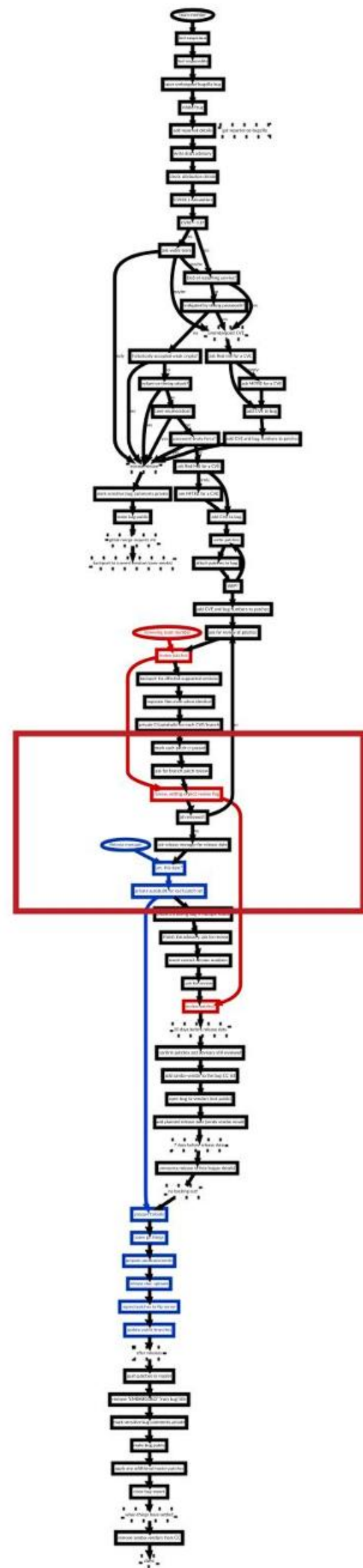
*but we really only care about  
all fixes in combination*

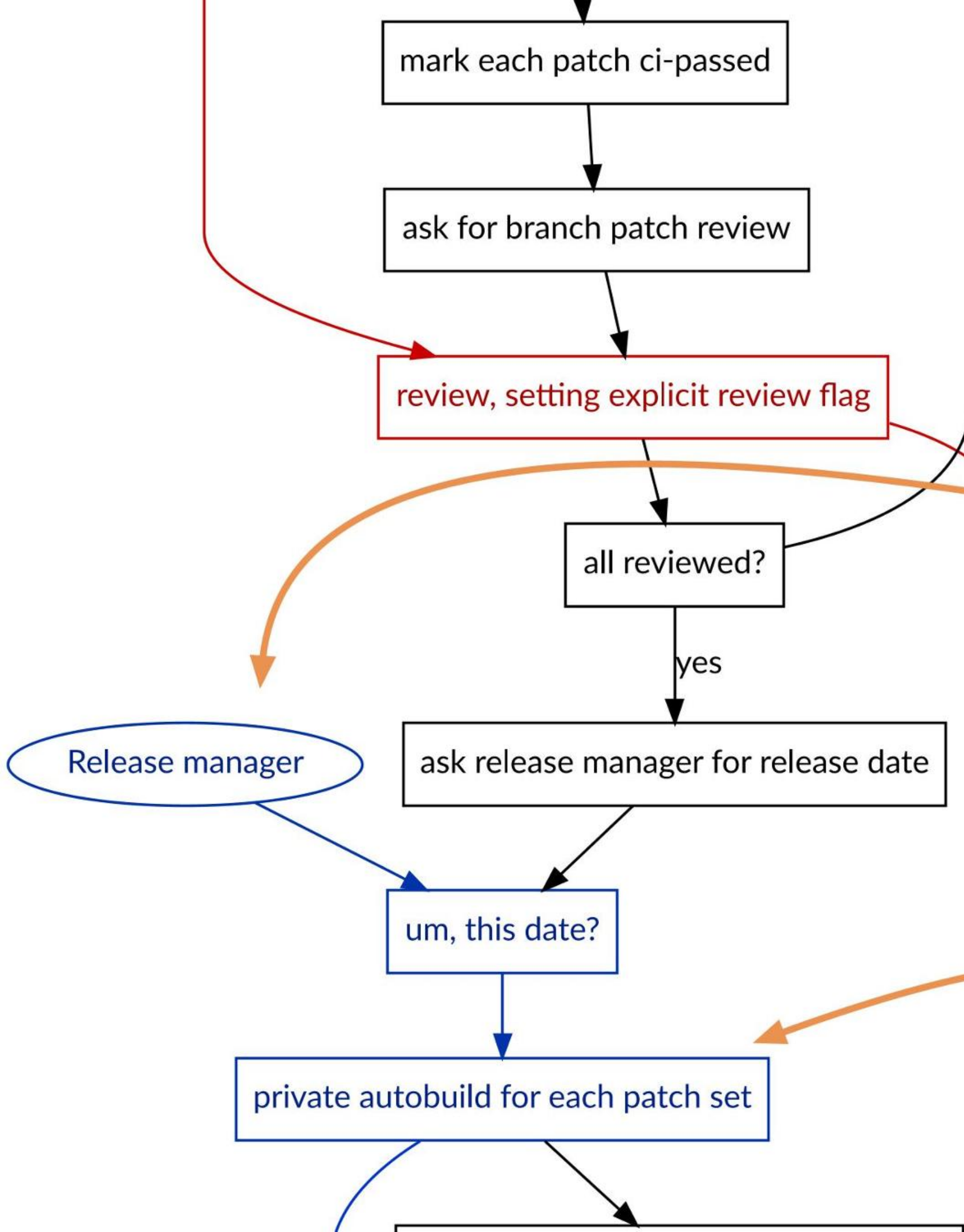






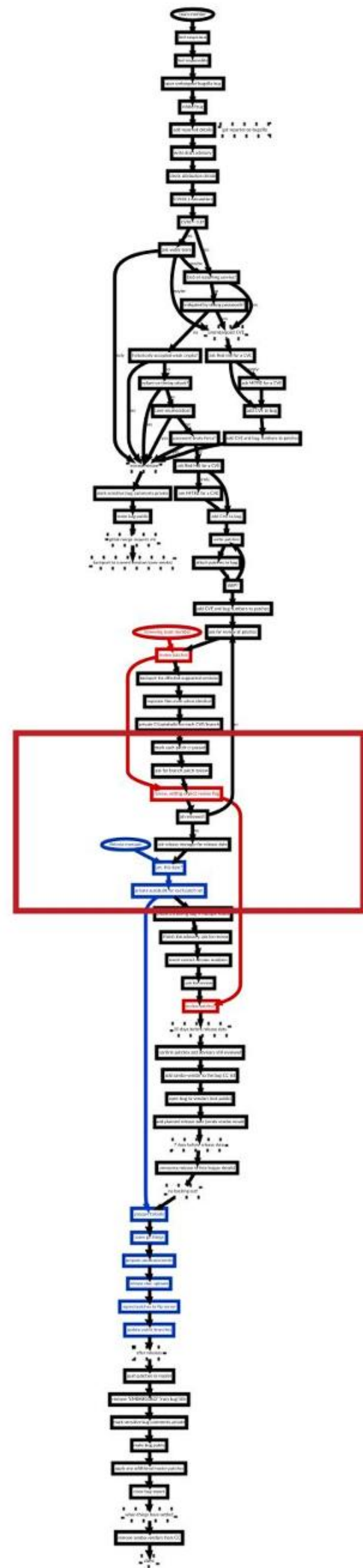
*Another new character*





*Another new character*

*The test we care about*



private autobuild for each patch set

create a tracking bug if multiple issues

Finish the advisory, ask for review

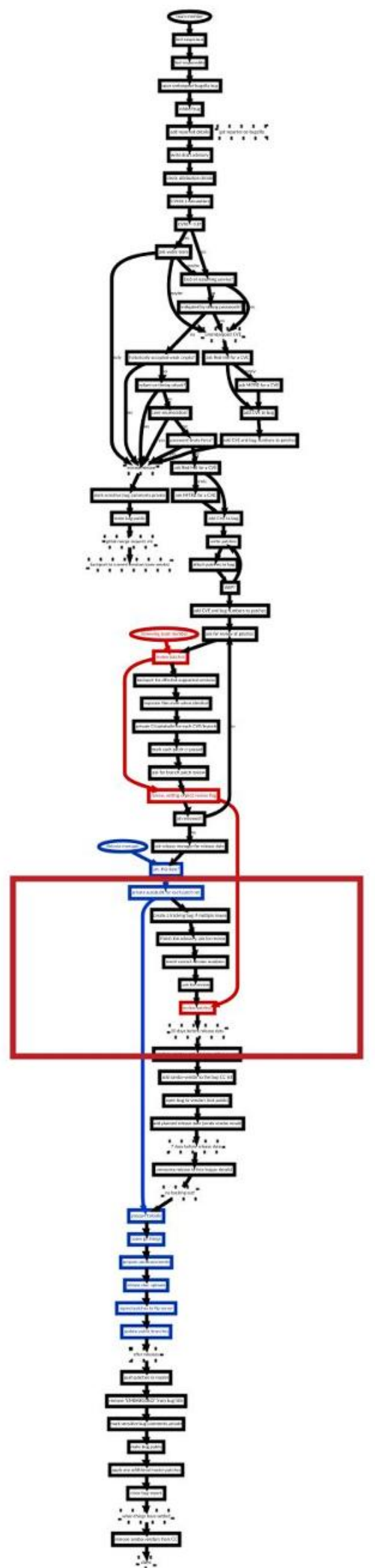
insert correct version numbers

ask for review

review

10 days before release date

confirm patches and advisory still reviewed



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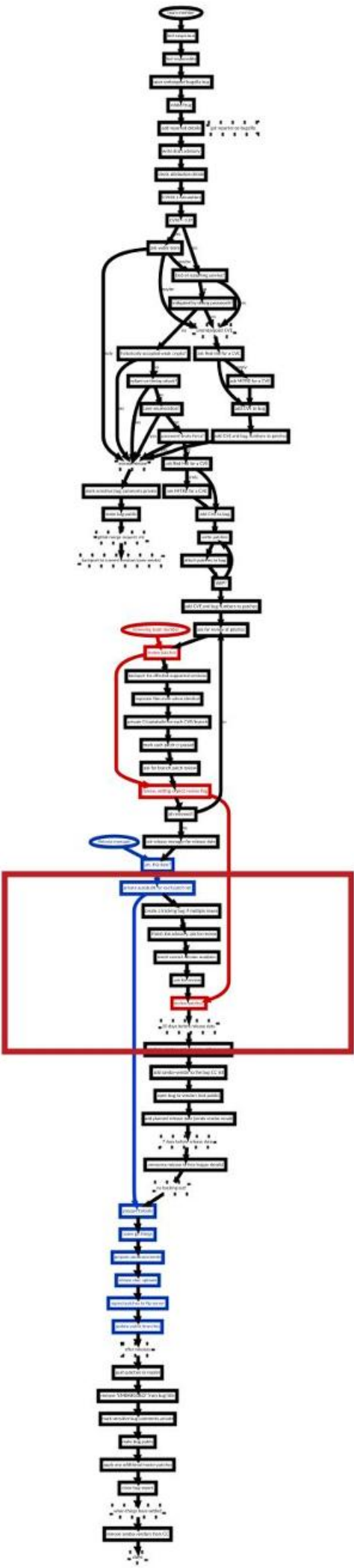
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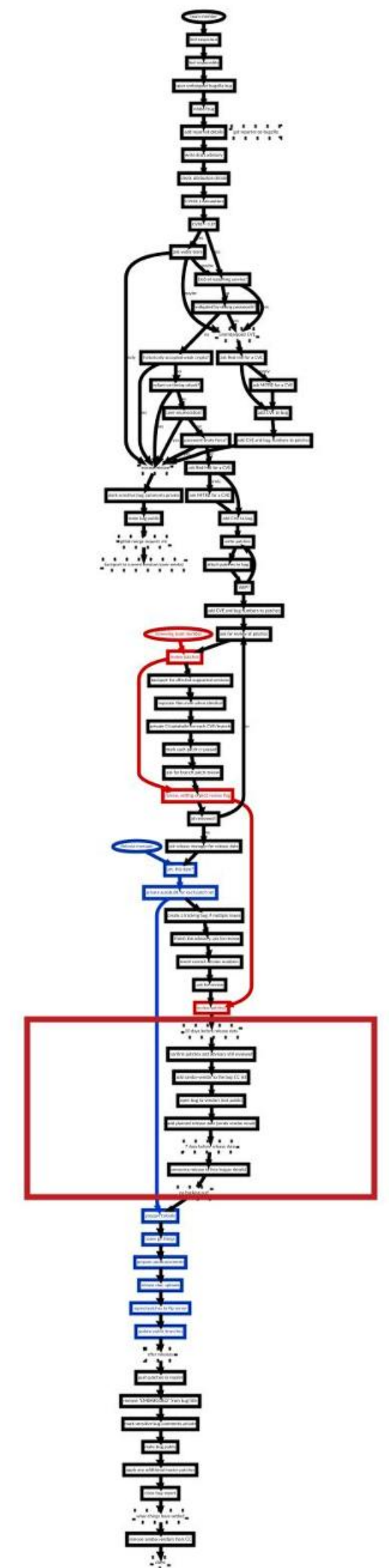
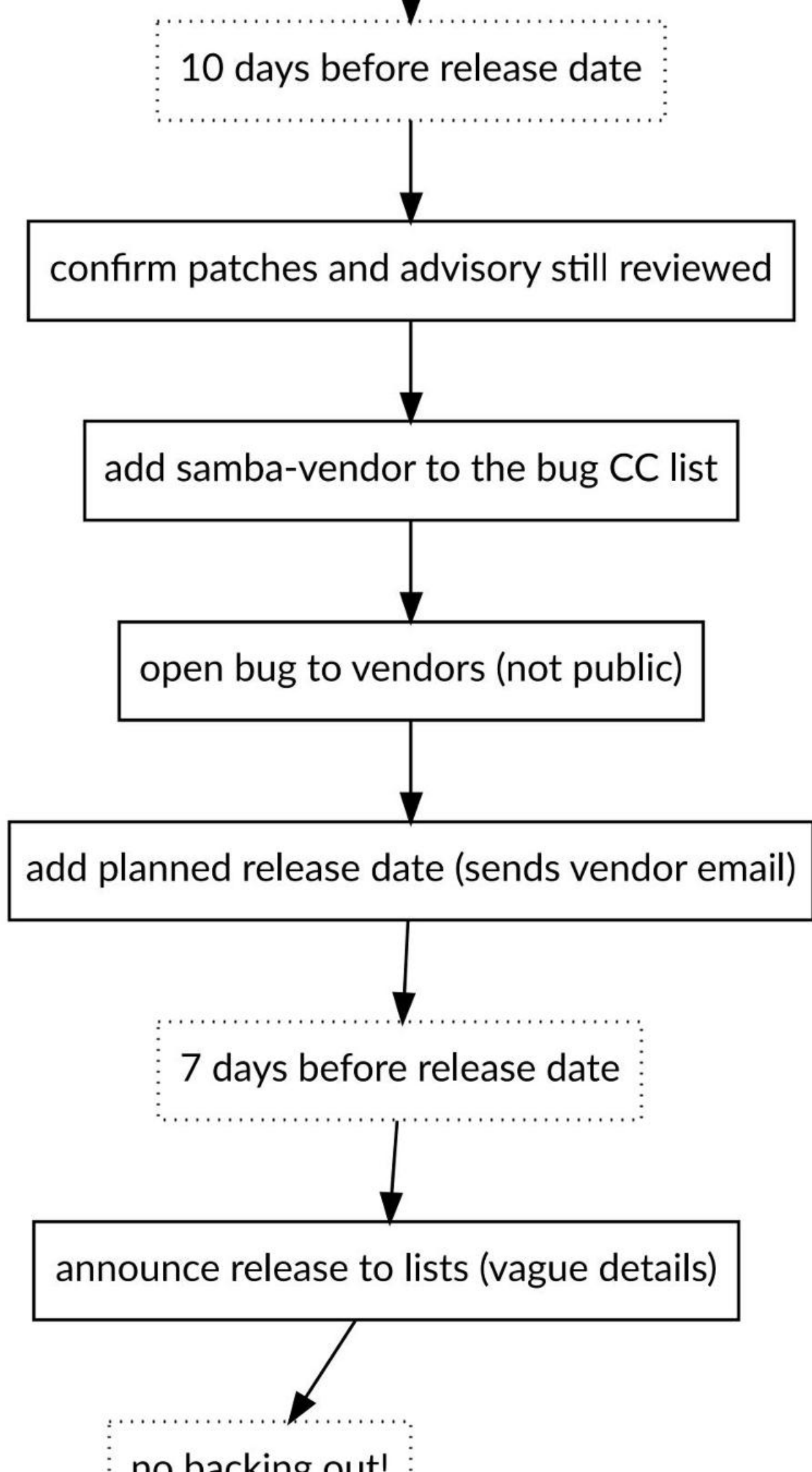
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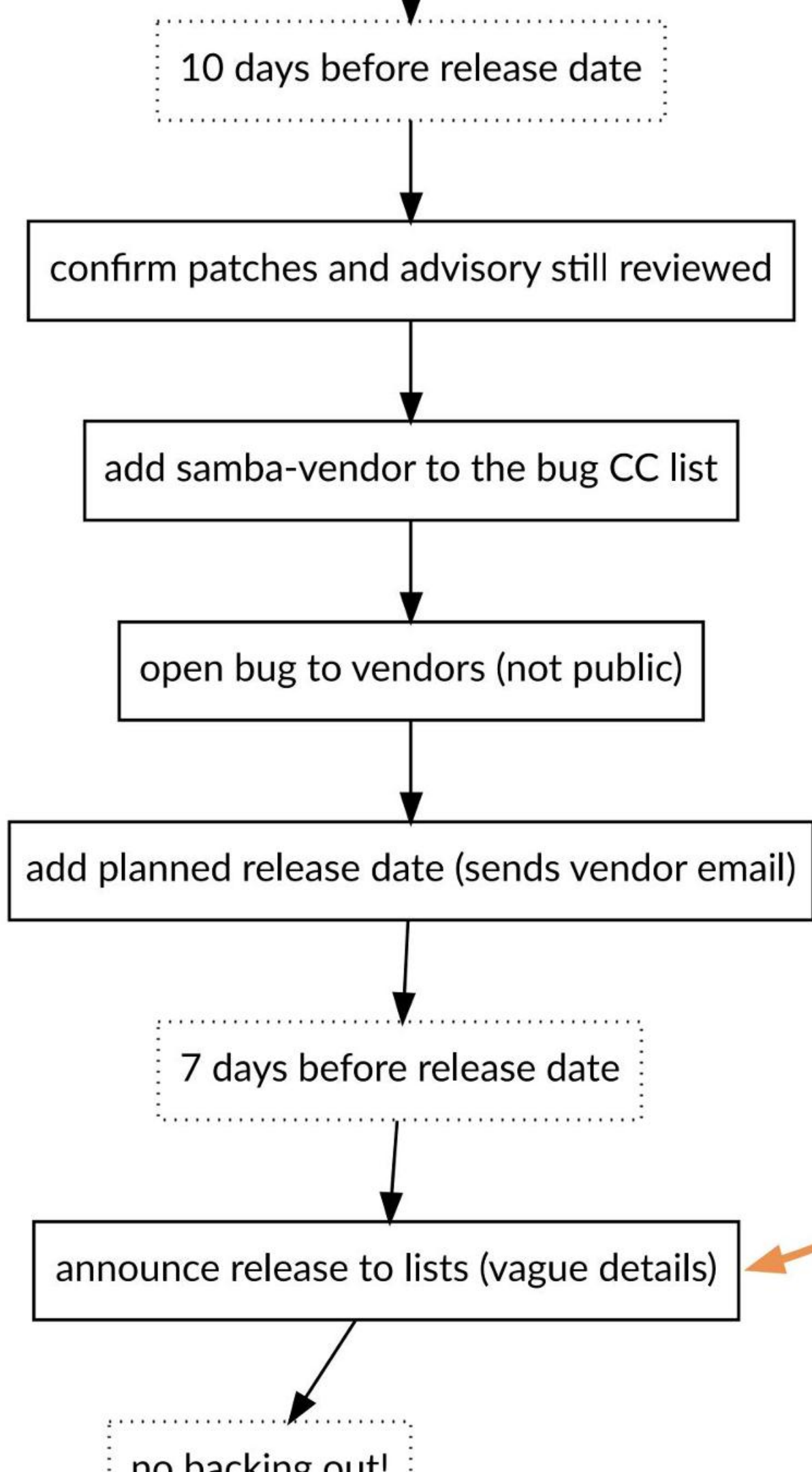
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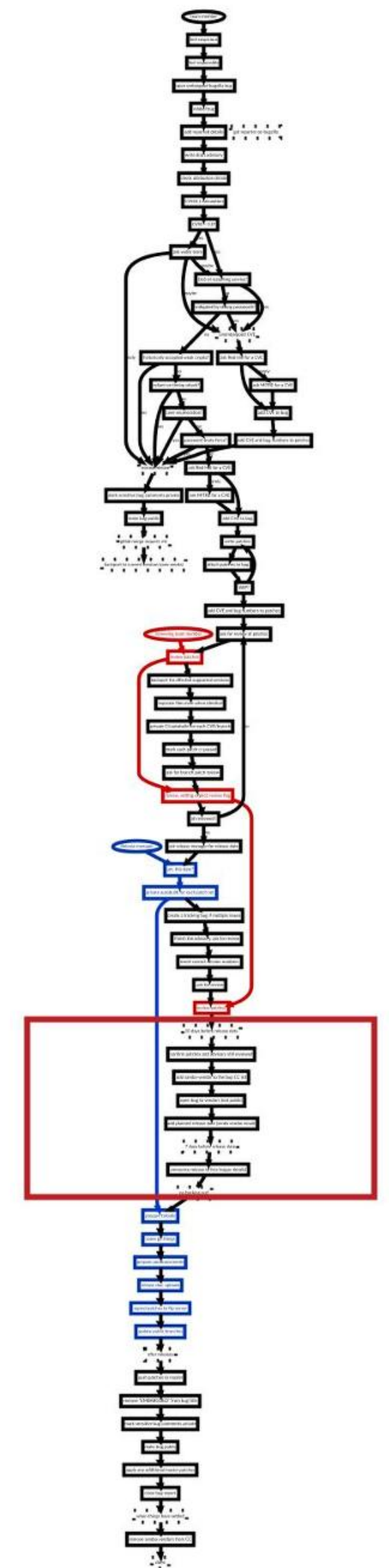
would have been useful earlier

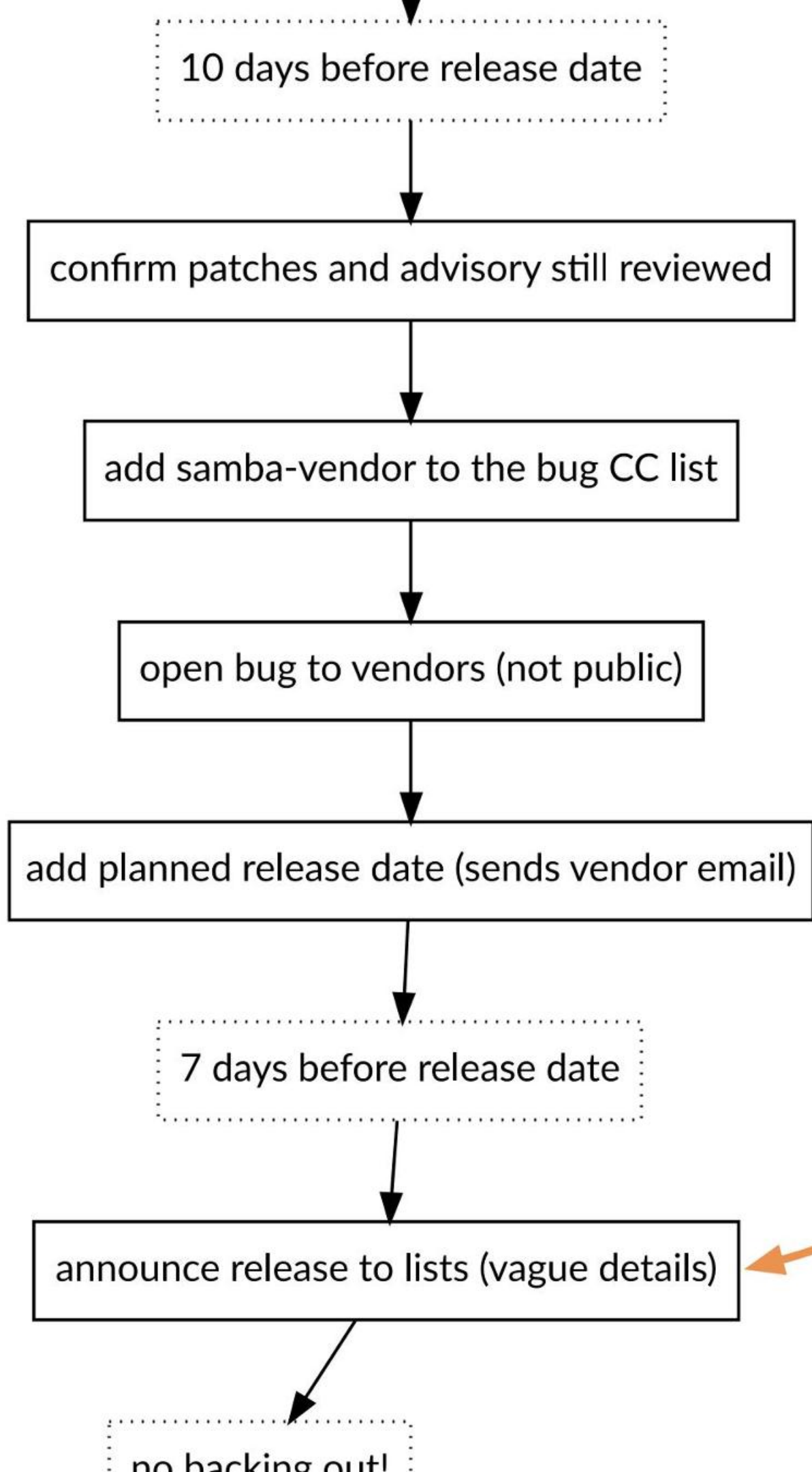




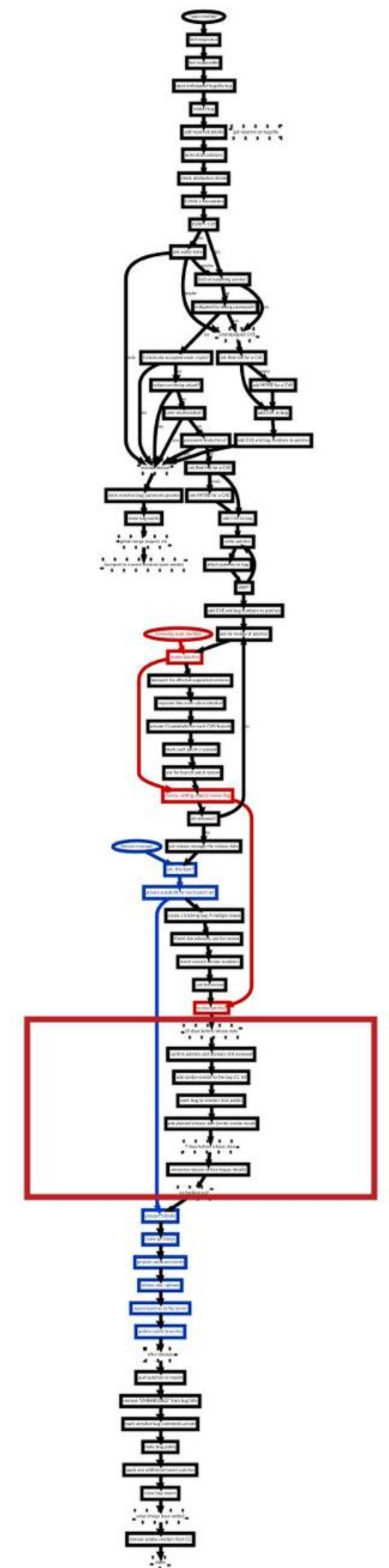


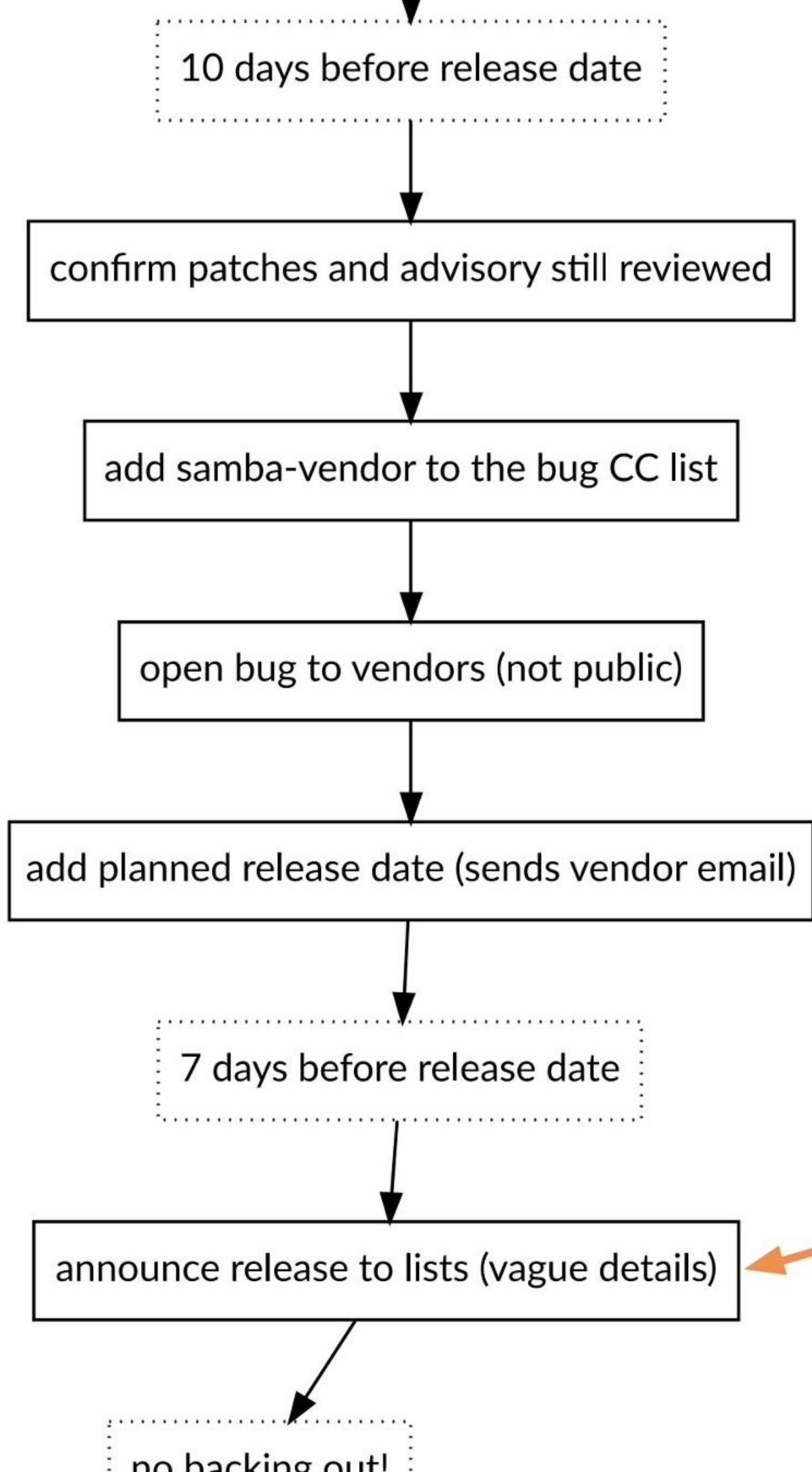
*There will be a security release on ...*



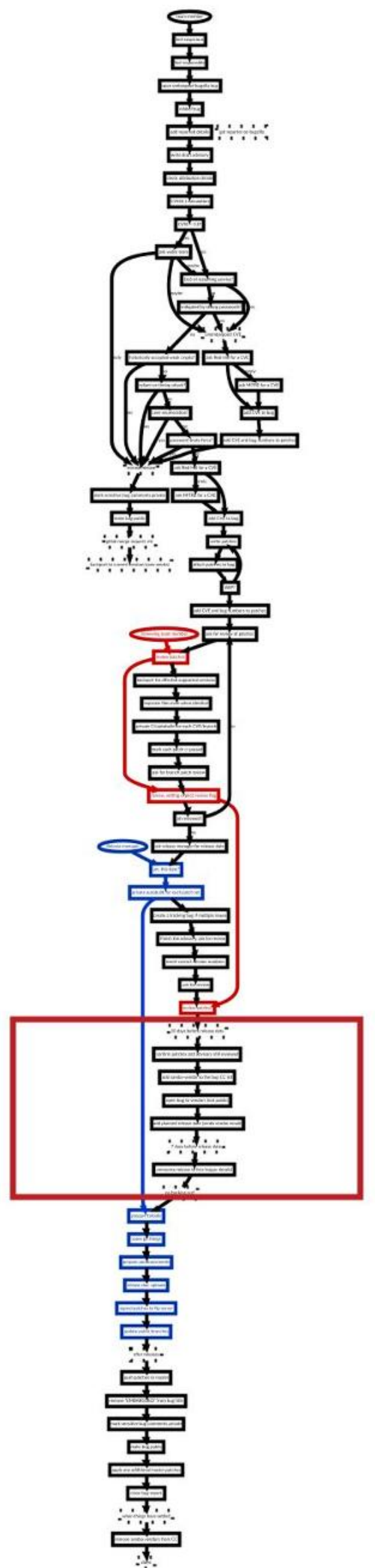


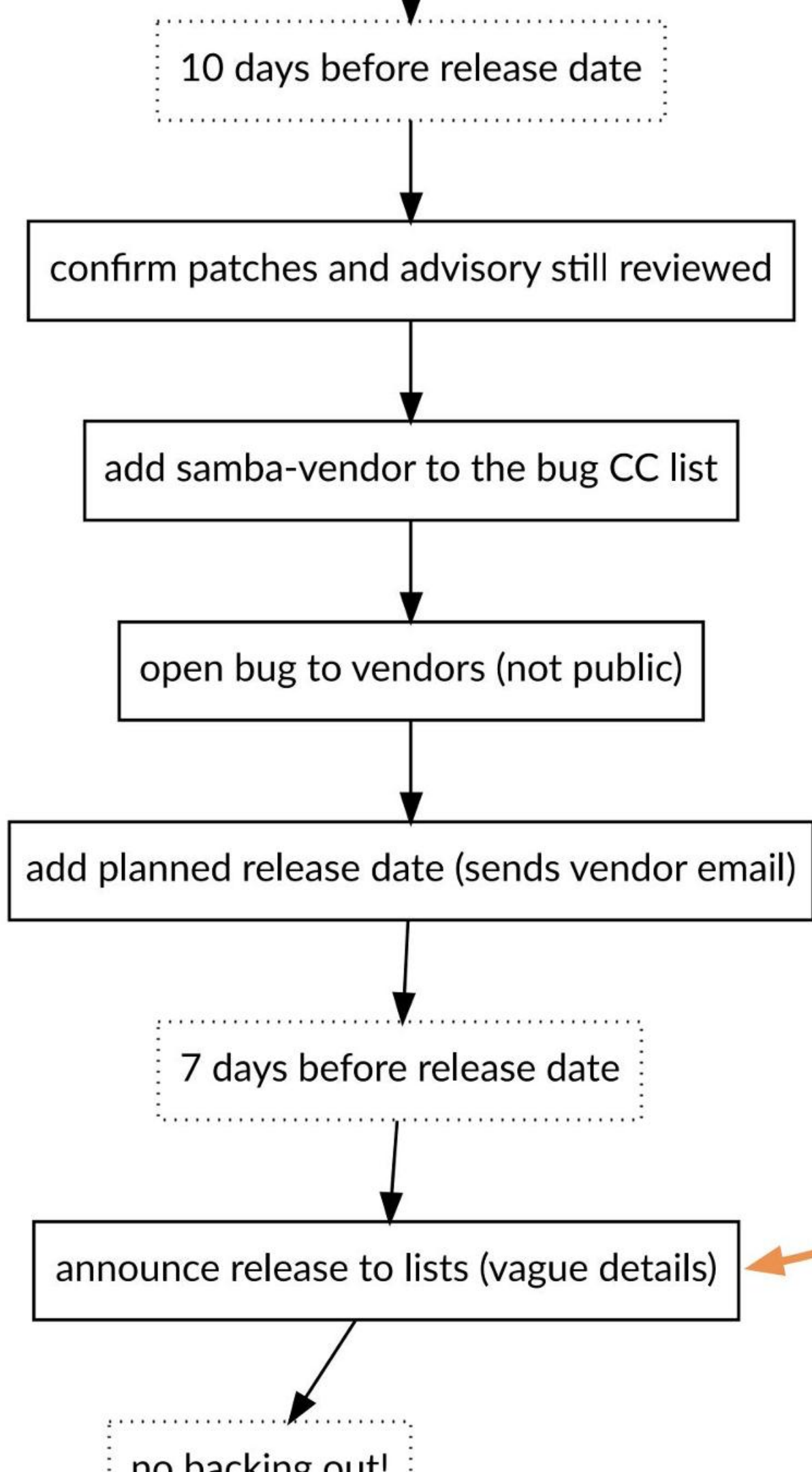
*There will be a security release on ..., affecting {AD DC, file services}*



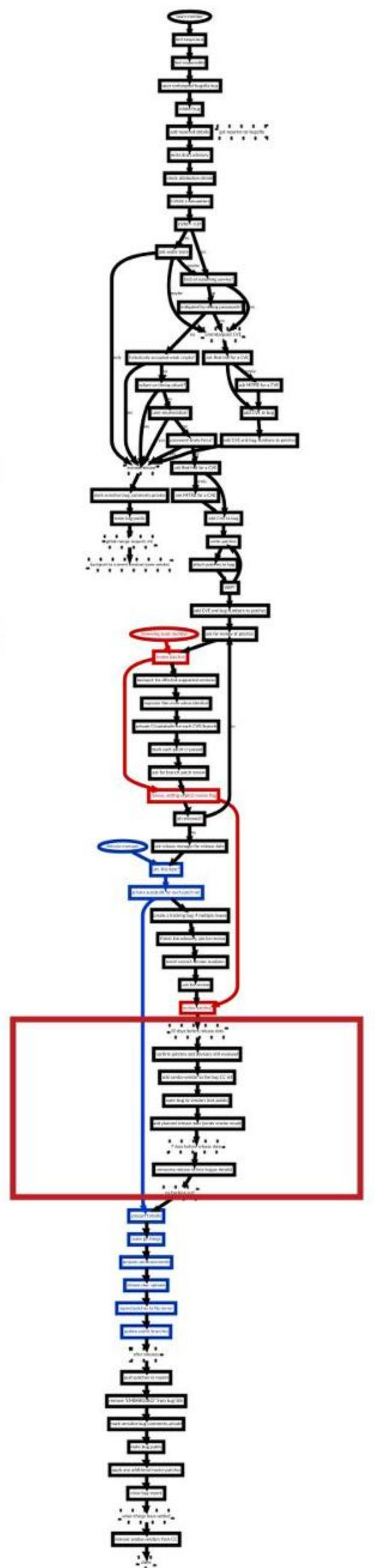


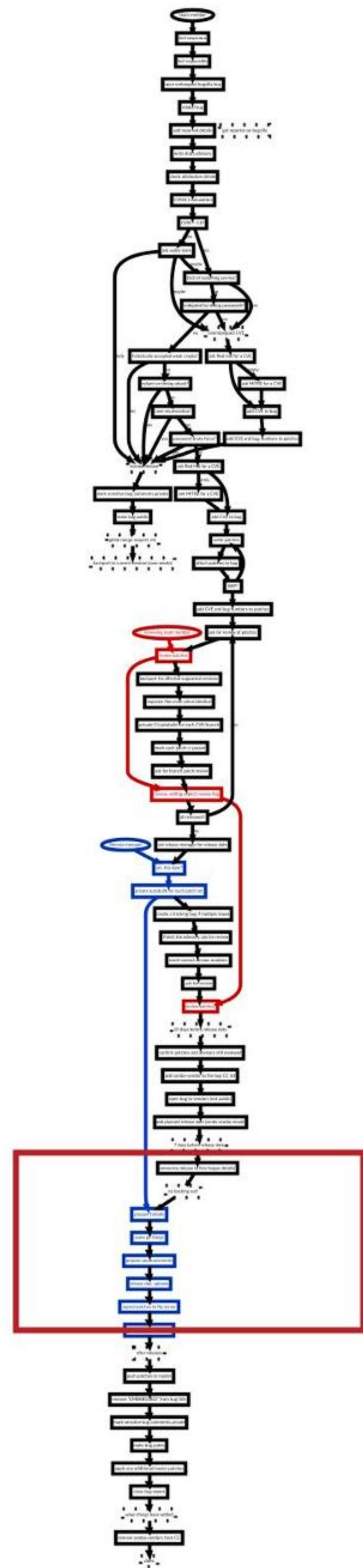
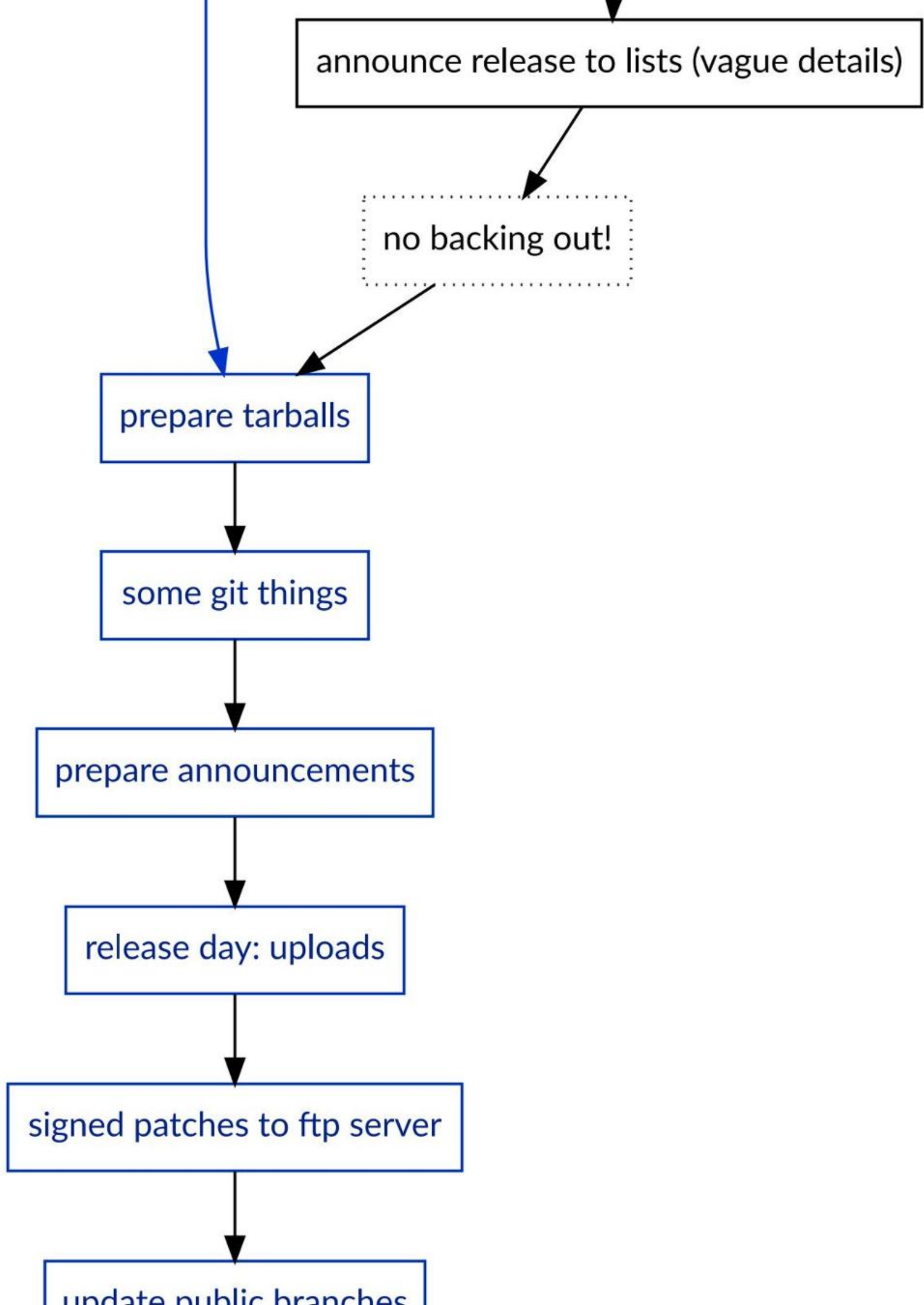
*There will be a security release on ...,  
CVSS X.X affecting AD DC  
CVSS Y.Y affecting file services*

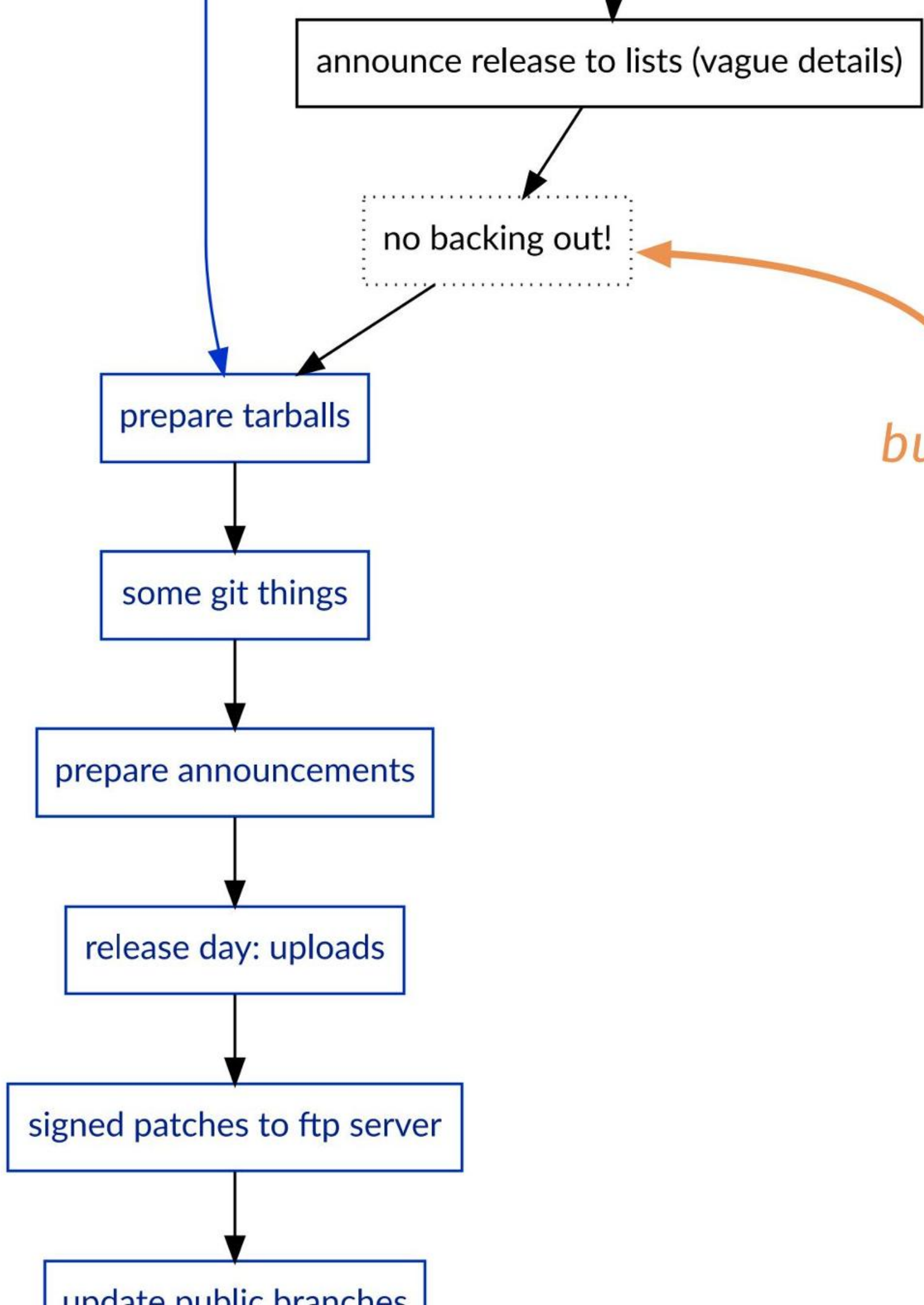




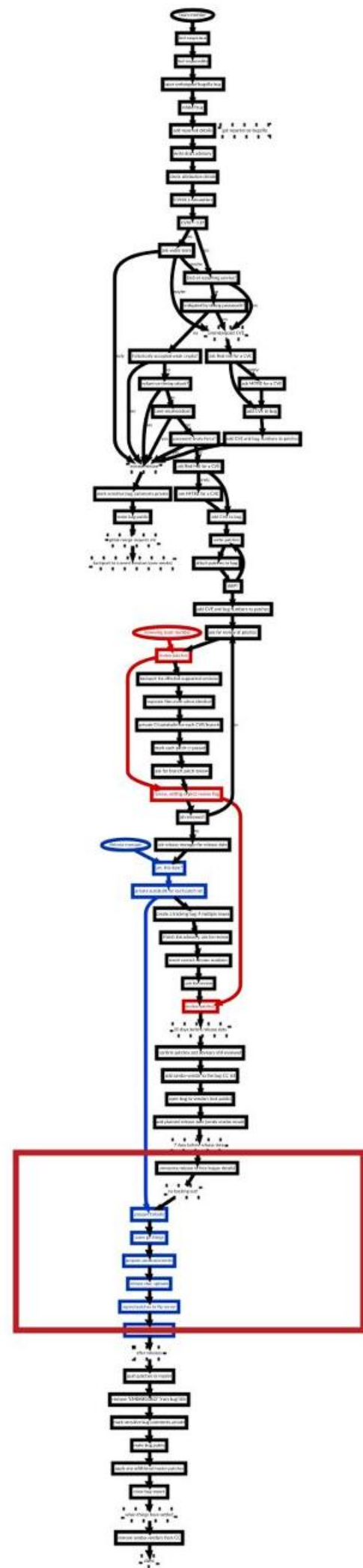
*There will be a security release on ...,  
CVSS X.X affecting AD DC  
with unusual configuration  
CVSS Y.Y affecting file services  
with common configuration*

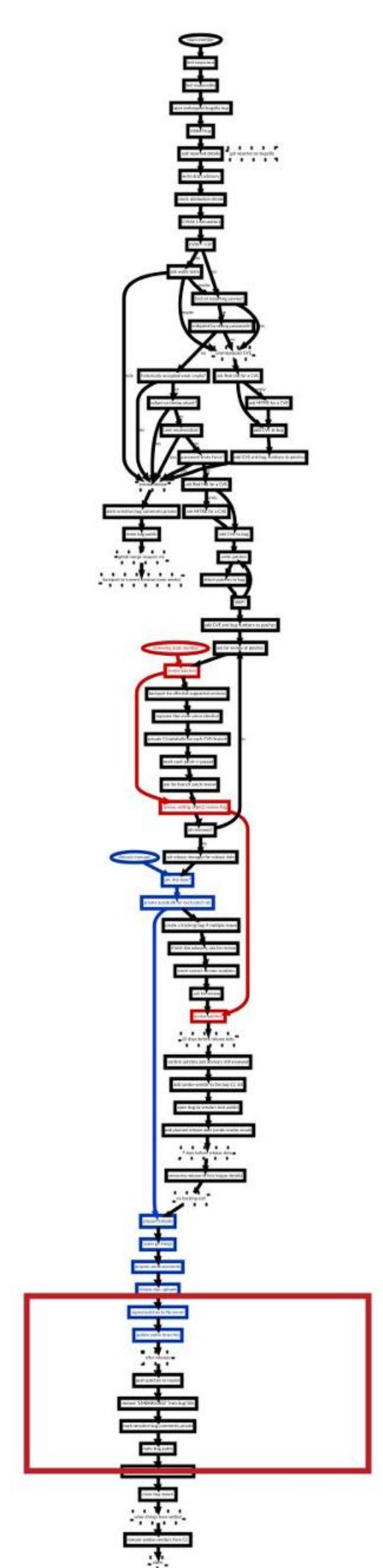
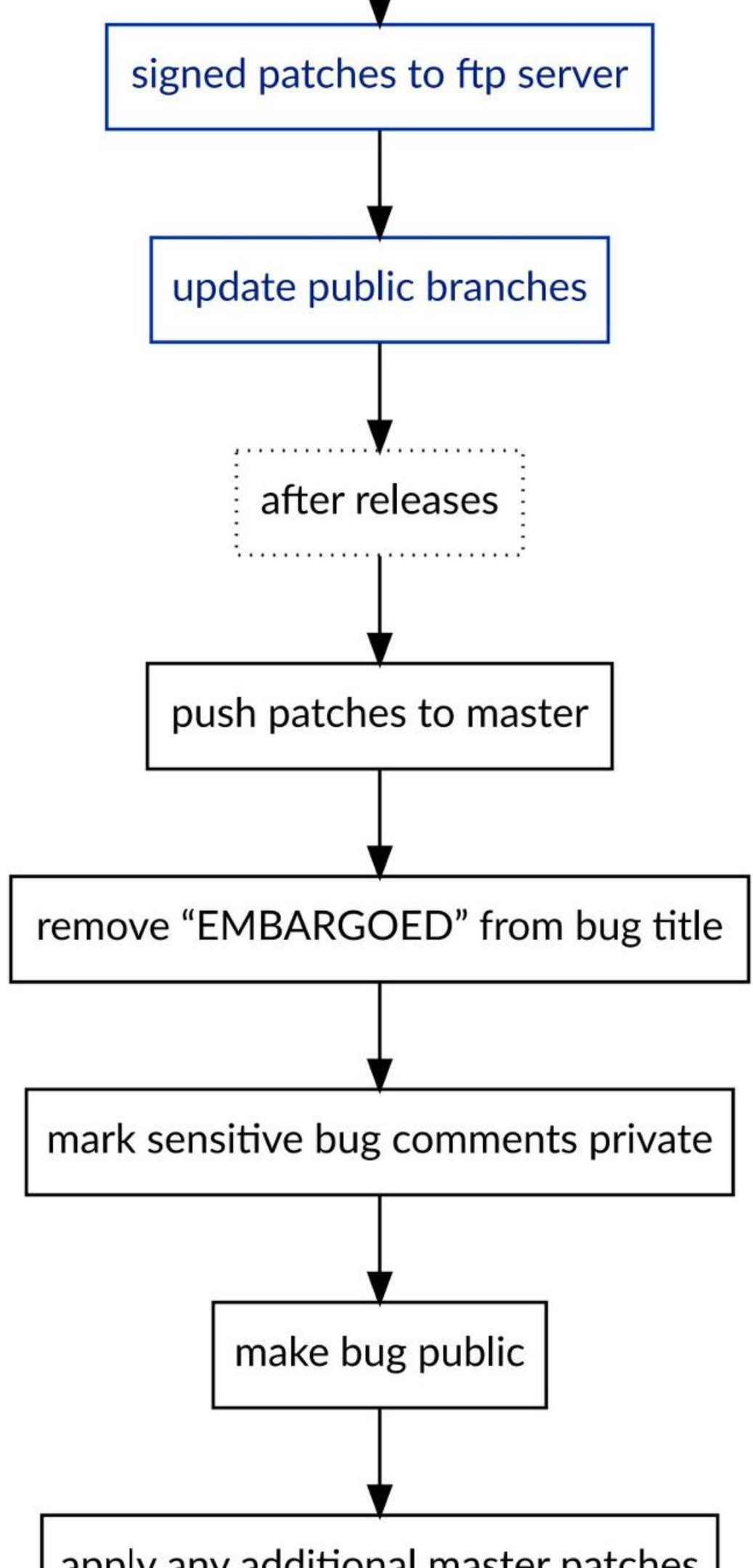


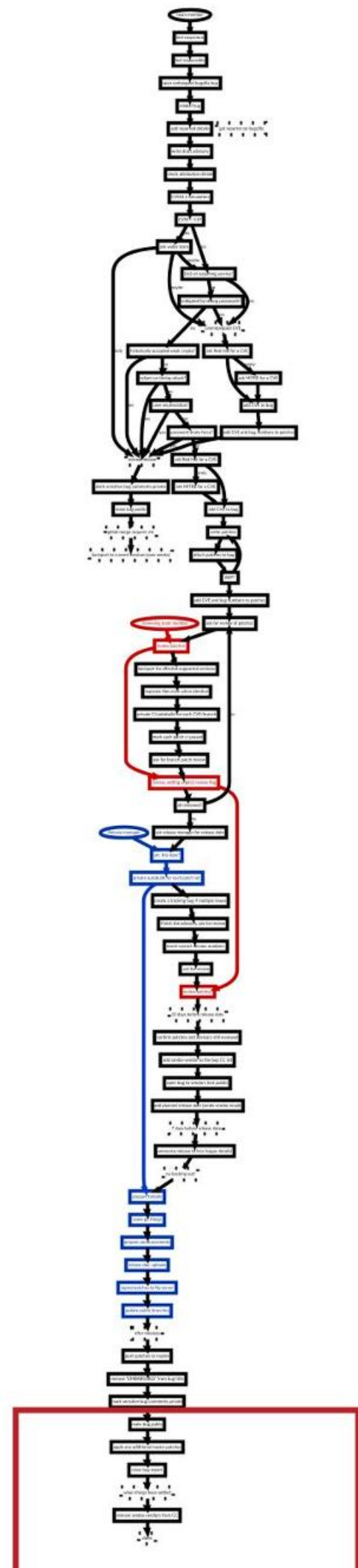
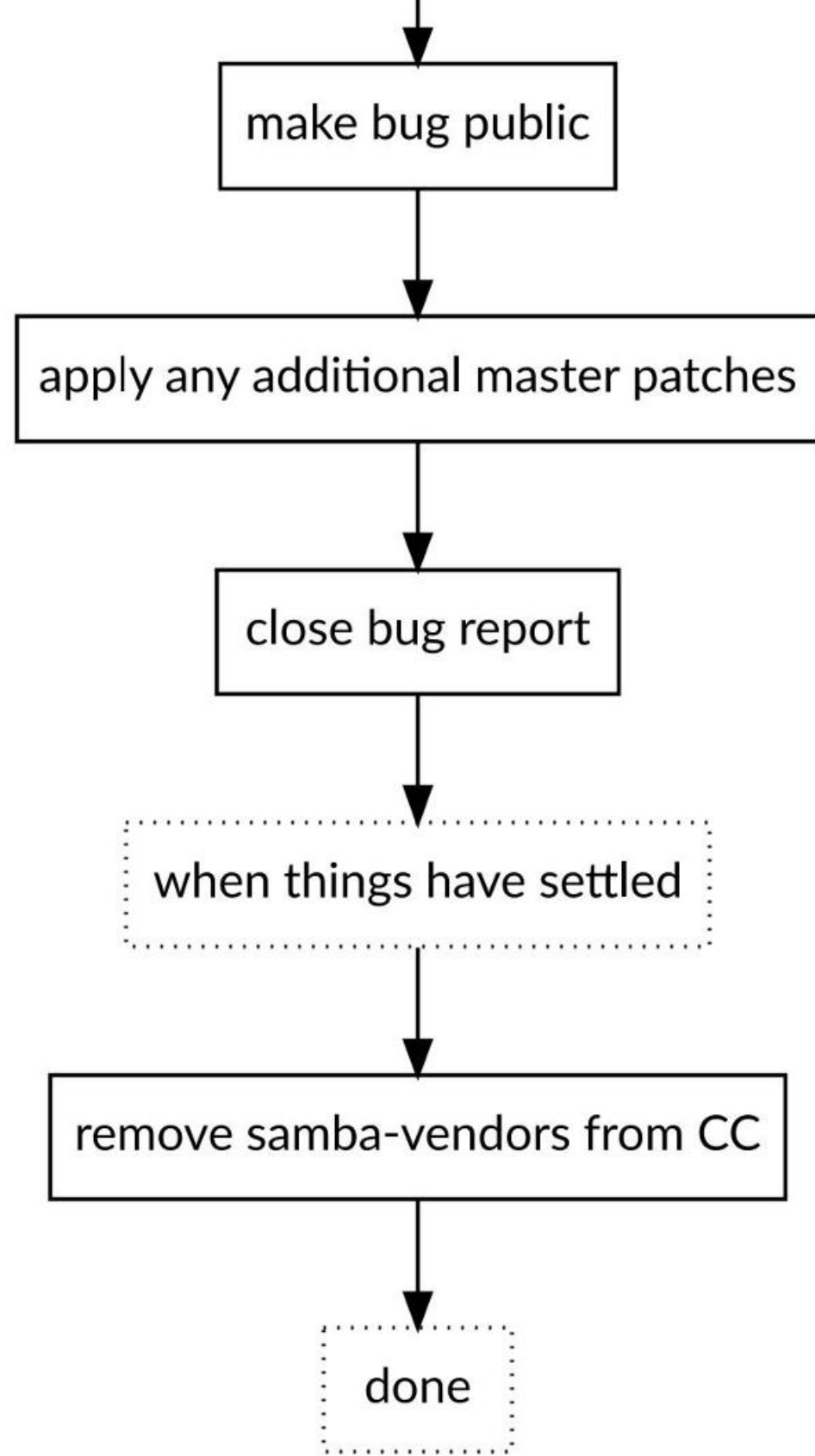




*but we postpone...*







## Streamlining the process

removing false dependencies

- more checklist than flowchart
- allowing different orders of operation

reduce  $n*m$  CI requirements

“somebody” to feel responsible for tracking bug

- getting everything is ready before release manager enters.

LLMs makes coordination *more important*

generate exploits from disclosures in minutes

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maybe this limits the scope for switching to  
“normal release with CVE”

If we don't keep up, we can give up

if Samba is not secure, it is not very useful

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if Samba is not secure, it is not very useful

if Samba is *seen* to be insecure, we won't get paid

Trim the bad parts

save time spent fixing bugs in unused code

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including unused smb.conf options

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smb.conf options that have not been mentioned  
in the mailing lists this century?

We need money

questions?