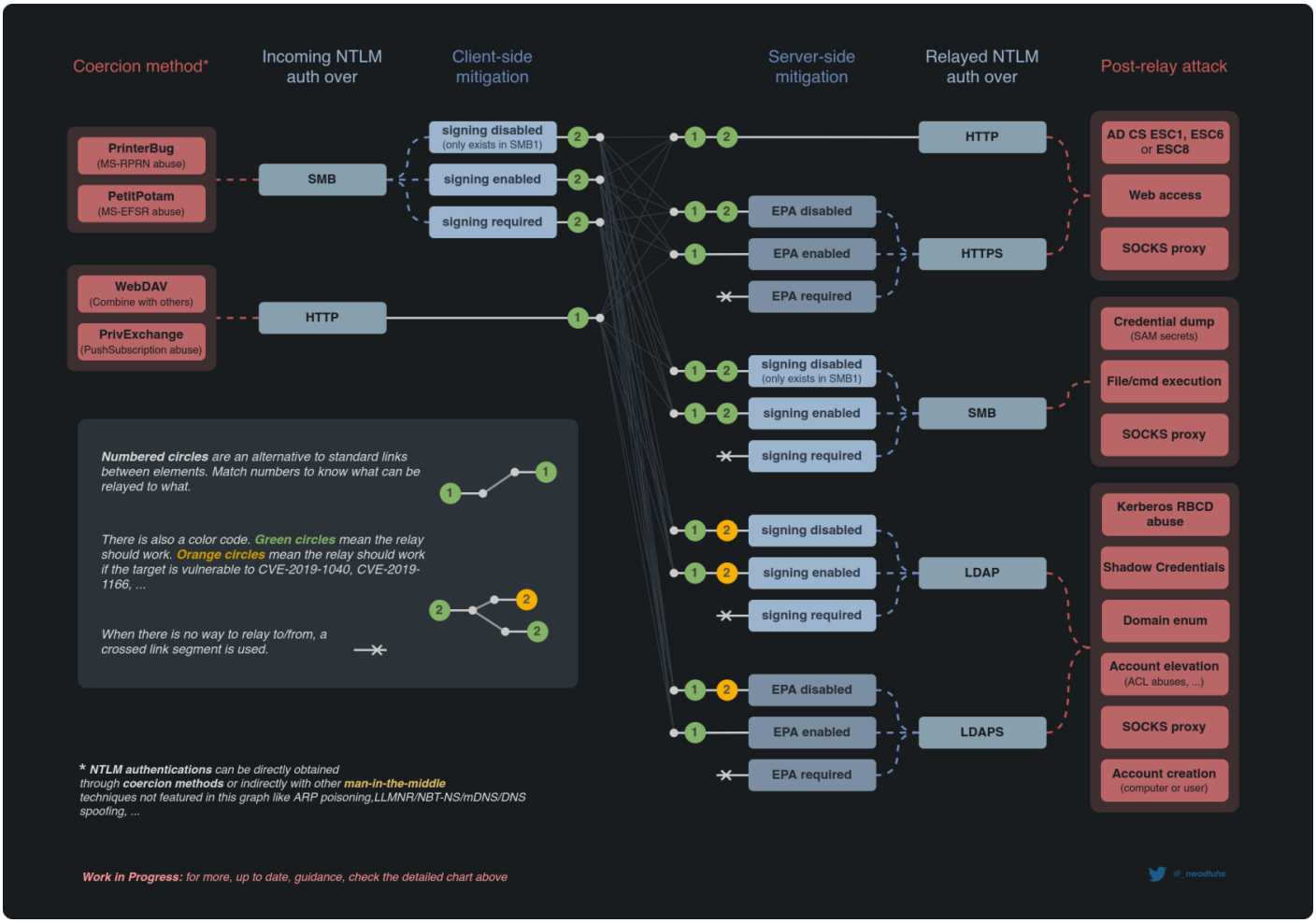
Relay Diagram

Thanks [Relay | The Hacker Recipes]



Work In Progress

client: session signing	server: session signing						server: EPA				
	SMB1	HTTP	SMB1	SMB2	LDAP	SMB1/2 / LDAP	LDAPS	HTTPS	LDAPS	HTTPS	LDAPS / HTTPS
	"disabled"	"not supported"	"enabled"	"not required"	"None"	"required"	"Never"	"Off"	"When supported"	"Accept"	"Always / Required"
SMB1 "disabled"	✓	✓	✓	✓🍎	✓💥	✗	✗ (ntlmrelayx?)	✓	✓	?	✗
HTTP "not supported"	✓	✓	✓	✓🍎	✓	✗	✓	✓	✓	?	✗
HTTP "supported" (WebDAV and other Microsoft clients)	✓	✓	✓	✓🍎	✓	✗	✓	✓	✗	?	✗
SMB1 "enabled"	✓	✓	✓	✓🍎	✓💥	✗	✗ (ntlmrelayx?)	✓	✗	?	✗
SMB2 "not required"	✓	✓	✓	✓🍎	✓💥	✗	✓💥	✓	✗	?	✗
SMB1 "required"	✓	✓	✓	✗ (ntlmrelayx?)	✓💥	✗	✗ (ntlmrelayx?)	✓	✗	?	✗
SMB2 "required"	✓🌿🍎	✓🌿🍎	✓🌿🍎	✓🌿🍎	✓💥🌿🍎	✗	?	✓🌿🍎	✗	?	✗

@_nwodtuhs

- ✗ it doesn't work
- ✓ it works
- 🍎 enabling SMB2 support is needed (`-smb2support`)
- 🌿 disabling multirelay (`--no-multirelay`) is needed (having only one target (`-t`) does that automatically)
- 💥 exploiting CVE-2019-1040 (`--remove-mic`) is needed (for unpatched targets only) or NTLMv1 (doesn't support MIC)
- * needs testing and/or confirmation

✗ (ntlmrelayx?) ntlmrelayx seemed faulty, needs to be tried again with network analysis

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