Be Ye Batman, not Superman



Or, why planning beats superhuman effort



John Welch

Sr. Systems Administrator at Honeywell in Kansas City

National Security



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John Welch

I've been a part of the Mac IT world since the late 1990s

National Security



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John Welch

I've been known to be opinionated on installers, automation, UX/UI, documentation, best practice...

National Security



occasionally



Today we are here to talk about Batman vs. Superman



Or, why dull boring preparation and planning beats superhuman effort every time



by preventing the need for it



The 2017 Maersk Attack





In June of 2017, Maersk was almost obliterated by NotPetya







Desktops, Servers, phones, nothing was safe



Their Global AD forest too



It literally shut down their business



The only thing that saved their AD was a single server in Ghana



Network Recovery took two weeks



Endpoint recovery took another ten days





They absolutely Superman'd it



Which was a failure condition





 No one could find backups for the domain controllers that went back far enough



They still had Windows 2000 servers running



•A 2016 call to fix lack of patching, outdated OS's, lack of network segmentation was greenlit and budgeted, but because it wasn't a KPI for Maersk senior level execs, it never happened



The fact it took until 2016 to even plan was a failure



Even their 2016 plan was a Superman



Things should never get Superman-level bad





Once you get there, it's too late. You're not preventing, you're cleaning up



Who you really need is:



"We don't implement patches until they're tested"





The false confidence of phishing training



The false confidence of relying on perfect performance from humans



Plan to fail



Plan to fail What happens after phishing training fails?



Plan to fail

- What happens after phishing training fails?
- What happens after someone cryptos your main auth server?



Plan to fail

- What happens after phishing training fails?
- What happens after someone cryptos your main auth server?
- What happens when the perimeter fails?



This includes facilities too



What do you think happens to a generator that's just sat for years when you try to run it at load for a week?







This is also about people



What's your documentation like?



How many processes are documented at all?



How much of your onboarding ends at "you have a computer and access"?



What about offboarding?



Do you have proper staffing?



How many people can be out?



How long are vacations?



Batman has Robin/Batgirl/etc.



Batman has



Batman has resiliency



Planning, prep, all of it is about resiliency



When things go wrong, what do you do?



Before things go wrong, what have you done?



Case in point: VMware Fails



vMotion doesn't work if the host fails faster than vMotion can handle



What's your DR plan like?



How much of your system works sans power or network access?



Speaking of "Grand Plans"...



Grand plans:





And just as unreal



Grand Plans are a failure



Grand Plans are not resilient



Another Failure Condition:



"If it ain't broke, don't fix it"



"This < magical tool> will fix it!"



Those are all:





They are all failures



Batman is small



Batman is tedious



Batman is boring



But, Batman has better resiliency



Unfortunately, the PTB love them some Superman





Thanks!

