Slide 1	Oh \$#*7 I have to do WH 365 days to build a security pro

	Ob 5#*7	
	Oh \$#*7 I have to do WHAT?!	
	365 days to build a security program	
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Slide 2	Scenario	
	•Small-medium business, privately owned	
	 Architect/manager level, with engineer responsibilities Strong preference for Open Source 	
	Minimal compliance needs Expect results in 1 year	
	• All Windows endpoints and servers Oh \$#*7, I have to do WHAT?! #InfoSecIn365	
Slide 3		
	Diama a 1	
	Phase 1 Planning and Discovery	
	rianning and Discovery	
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Slide 4	Framework • Pick a framework • ISO 27000 (\$) • NIST CSF • CIS Controls (formerly SANS Top 20) • Compliance needs will substitute for framework • Use as basis for System Security Plan #InfoSecIn365	
Slide 5	Resource Assessment Donirstart buying things now? It Infrastructure Technical resources Determine who you can "borrow" Organizational OSINT Meet and greet	
Slide 6	Pusinoss Objectivos	
	Business Objectives Risk Assessment Business Impact Assessment Evaluate Disaster Recovery capabilities DR simulation RTO/RPO/WRT Data Classification Keyword searches Metadata tags Department-by-department #InfoSecin365	

Slide 7	Evaluate User Education • Phishing Simulation • Knowbe4 (\$) • PhishMe (\$) • SANS Securing the Human • Surveys/Quizzes • StaySafeOnline.Org • Use results for targeted user training #InfoSecIn365	
Slide 8	Asset Discovery •Hardware •Software •Tools •NMAP •Vulnerability Assessment System (VAS)	
	• Active Directory • Microsoft Baseline Configuration Analyzer #InfoSecin365	
Slide 9	Threat Modeling •Know what you're protecting •Know what you're protecting against •Intel sources: •US-Cert lookup for similar companies •CISO roundtables (avoid FUD) •Conferences/meetups (avoid FUD) •Forensics in your network + incident reports	
	• Forensics in your network + inclaent reports # InfoSecIn365	

Slide 10	Gap Analysis •Use framework •Doesn't need to be with an auditor •Deliverables •Compliance checklist against framework •Project plan/POA&M A pen test IS NOT a Gap Analysis #InfoSecIn365	
Slide 11	REST!!!!	
	 "Exhaustion is what our culture views as courage" Set goals, then reduce them by 25% Don't overcommit Try not to take work home Take your vacation time #InfoSecIn365	
Slide 12	Talk with Management • Avoid FUD • Present findings • Discuss potential costs / resource issues • Increase buy-in • Pitch security as a sales tactic #InfoSecin365	

Slide 13	Phase 2 Analysis and Documentation #InfoSectn365	
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Slide 14	Vulnerability Assessment Donilstantribuving thingsenow? in vulns from patching OpenVAS VulnWhisperer (ELK) Generate differential reports Shodan lookup for external ports (should be able to see from your firewall rules) #InfoSecIn365	
Slide 15	Patching • Automated for endpoints, manual for servers • Gather team from IT for server patching • WSUS can be high-maintenance if you don't have experience • Every MS(S)P will have a patching software • Placed right after Vulnerability Assessment so you can document the results #InfoSecIn365	

Slide 16	Widespread User Education • StaySafeOnline.org • SANS Securing the Human • Security Policies • SANS • Charles Cresson (\$) #InfoSecIn365	
Slide 17	Incident Response Prep • Policies/procedures • Breach Reporting • At what point • Compliance requirements? • Establish CERT Team • Legal/HR/PR/Management/Infosec/IT #InfoSecIn365	
Slide 18	Change Management Not necessarily your jobbut it will be if it doesn't happen Even track changes that you don't think require approvals Tools Excel Intranet/SharePoint Google Form Helpdesk #InfoSecin365	

Slide 19	Talk with Management CIS 1-3,10,17,19 partially implemented by this point Not all sub controls Incorporate some training Get feedback on user pain Review security policies, get approval #InfoSecin365	
Slide 20	Phase 3 Mitigation and Remediation #InfoSecin365	
Slide 21	Least Privilege Discovery PowerShell Talk to people Bloodhound AD Admin Delegation ProcMon for removing Local Admin Reduction of privileged AD accounts #InfoSedn365	

Slide 22		
	Easy Wins	
	• Firewall rule closures	
	• Session lockout	
	Pre-logon advisoryAdd encryption into PC build checklist	
	Account Auditing	
	Based on last logon Work with HR	
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Slide 23		
	Replacement/Renewals	
	Good chance to increase security with easy winsNGAV	
	Does more than just AV, not much more \$	
	 "Poorman's App Whitelisting", Removable Media Control Bit of an upfront effort 	
	Network refresh WAPs with RADIUS	
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Slide 24		
	(Maybe)	
	Change service account and admin passwords	
	 (very important, but very time consuming) Principle of least Functionality / Hardening 	
	•SIEM	
	•(N/H)I(D/P)S •LAPS	
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Slide 25		1
	Talk with Management	
	•Reiterate that just because little to no money	
	has been spent, not the expectation going forward	
	•Get input on potential budget \$ and priorities	
	• Revisit MSSP for SOC	
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Slide 26		
	DI 4	
	Phase 4	
	Looking Forward	
	", 60 , 200	
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Slide 27		1
5.1dc 27	Measure Progress	
	Distribute survey	
	Measure user pain/perceived improvementsAllow Suggestions	
	Self AssessmentDifferential reports	
	Perform another Gap analysis	
	 Vulnerability Scan Redistribute survey from beginning to measure improvement in user awareness 	
	improvement in user awareness #InfoSecIn365	
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Slide 28	Budget Preparation Set Priorities based upon findings in last slide Re-evaluate threat model, risk assessment Suggestions MFA Network overhaul (chances are you have a flat network with L2 switches) Suggestions from Renewals/Replacements #InfoSecIn365	
Slide 29		
Silde 25	Talk with Management • Present Budget • Infosec as profit center • Present % compliance improvement goals • Present differential reports • Explain advanced concepts # InfoSecin365	
Slide 30	tl;dr (too long; didn't read) #InfoSecIn365	

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tl;dr

- Set priorities based upon business objectives Threat model all the things

- Backup all the things

Slide 32

Oh \$#*7 I have to do WHAT?! 365 days to build a security program

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