PROJECT BASED ON RISK ASSESSMENT AND THREAT MANDREMENT

Date:_ BASIL ALI KHAN 20K-0477 Video : How to marage sewrity lisks and Threats I Google Experiently certificate. The video by ARHey, austomer engineering enaskment lead for security operation sales at google posside a compo hensive detail of foundational principles in security a compre operations, catering specifically to knowledge and VEKIlls required to aspiring entry level seems if analyst. Navigales through crucial topics anting the CISSP's comprehensive leight sewith domains, offering anderstoody of creas such as risk assessment, asset security, security architetie, communication and network security, identify and alless management, security assessment, scently operations and software development security. The cause defines and explains the dynamics of thouses and visit and vulnesbotthes illustrating their impacts within security franciscoks. Video travose through varous sensios explaining social engineering attacks, ransomware attacks, outdated software vulner bities and the human element in security ampromises morevarit also elaborates on significant operational rechtication of security inclients, also financial implications identity theft askern and reputational danage that organization might face duce to security Breaches. The Video also unpacks the NIST TISK moragament Pranciook defining seven step approach: prepare, categorne, select, implement, occess, outhorize, monitor Page Victory

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used for strategic monagement of scurity and privary orks within organization structures. Also deserts dual component of security transcrook and control, explaining formal as guiding parneples instrumental in borning latered scensity plans while expounding takes as poactial safegiords designed to mitigate visics. It days deeped into examples highlighter key controls such as encryption, authentication and lauthornation and their sole in Growntung Security infactouctures. Also discuss ca Frad as Endomentals principle in scenity moregent and their roles in data deces control, dalla autentiuty validation and ensuring attrooped acceptanty of date. It also dovers an extensive range of assescenty toples It bagins by explaining importante of security formeworks focusing NIST framework used worldwide The NIST appearsecurty Francison (CBF) highlighted coucial Volentry Barrowork composery 5 dose Anctors: identify, Proket, Reket, Respond, and low ver. emphasizes concepts like minimizer attack surface area lest privileges, defence in depth, separation of duties, excepting beauty measure stropes and adoressing security issues effectively. It explain how these aniepts & pointiples contract to support security measure with organization complements the use of theorework and anniels. Futhers deplayed on importance of these dements in Identifying gaps within a organization security postive 14. also emphasizes value of wordingting scourty andits Page Victory

showing their role in imposing security measure and their potential inclusion in professional portfolio. Further explores security information and event management (SIEM) tooks, delving tinto their traction in collecting, analysing log data and creating ashboards. It describes now stem destiboards facilitate quick insights into security related data auditing malists in months of, analyzing and responding to pokential threats elelevently The Aral post touse on different types of SEM tooks such as sell mosted, about housted and hybord solutions. Examples of widely used SEM tooks like splunk and chrosnicle are portided and their real time security information managements If stooks by emphasizing importance of playbooks in ayber security playbooks or manals that outtine operatoral actions and are conval too muntained security by providing destry on tools used in response to security incident . They exist warray, effectively and accuracy in addressed thouask ride, or vibrastines Identified with g as organization one particular type of playbook buscussed is incidents playbook, fordometal in an argenization quel identification, contained and resolution of securty breaches. The playbook composes six phases stating with prepartion phase. Involves documenting procedures, defining roles, and educating placonnel, establishing fondation for effective incident res donse. Second phase delector and gralyous Pocuses on Iclantifying and malyper Page Victory

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Contournet, the third phase owns to prevent fittel damage damage by talery immediate action to minimize impact of incident fourthphase evaducation and recovery forth A invokes removing incident artifacts, ellionating malword code, and restoring affected system to a secure state, ensuring a vetern to normal operations. Post incident activity, the fifth phase, involves downed informally leadership and implemently lestons lealined to toriting the organiston's early postice The Analphase shooting information based on established stordards. essuring compliance and a coordination resolution polas. H also stresses that much desection can be through SIEM tooks such as which ordered and analyze dely generally aless that prompt seeily cralists to use appropriate playbook. The steps inside assessed alerts validety, ashtaving the values, eliminating traces of incident and conducting post medest activities and ecordination it's emphasized that daybooks are ling documents that evolve to address rew toreats, Valnerbittes and improvement based on past incidents. The importance of industrial playbooks and their ulthy for crity level sensity analyst , expecially in monthly networks and responden to incedent & highlighted Video covers cissp searty dornas, searty fromwork & controls, CH trad, MCT fromework, searty design polyples their relation to seeily audits, bode such tods

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pookedon of tooks like SIEM deshboards and the playbolesassets and detail through wso of · Video & RISH Moregenest Francisork /RMF) Overview In video presented by Christian Espinosa, an expert from Alpine security, a comprehensive briokdown of RISK Menagement Francourk (RMF) is povided fouring application within reportment of delease and US Government. The RMF as explained is latest version of NIST 800-37 is presented as structured process comprisony six moun sleps each discussed with alarly in beginning violes highlight the crucial overlocked skep of preparation before goding into achal RMF process. There are six essential sleps of RMF, starting with the categorization of information system based findemostile tenets of information security confidentiality, integrity and availability (CIA) emphasing the importance of architectic detription and organize atonal inpuls this stege, it filler elaborates on how these input contribule to the cotegorization process. underlying the rde of system bandestes and the impact of law of discessies in determing security alegories. Furthermore It describes the selection of security controls, drawing from NIST 800-53 as farders at quide and casessing the impostance of consols based on assexment and local conditions, Espirisa provides on example of a weepon system like a otrope attreast highlighting how controls may need Page Victory