
Secure Resilient Software Development Mark Merkow

software assurance: enabling security throughout the ... - software security assurance: not just a good idea steps organizations can take now to support software security assurance. tips from white paper on "7 practical steps to delivering more secure software": 1. quickly evaluate current state of software security and create a plan for dealing with it throughout the life cycle. 2. **securing industrial control systems secure. vigilant ...** - securing industrial control systems secure. vigilant. resilient. may 2015 . cyber security securing industrial control systems: don't be a victim of cyber-attacks. cyber risk & resilience: secure. vigilant. resilient. | may 2015 1 cyber security just as the workplace is becoming distributed across traditional business, social and domestic ... **secure and resilient software development - gbv** - secure and resilient software development marks. merkow lakshmikanthraghavan crc press taylor&franciscroup bocaraton london newyork crcpress is animprint ofthe taylorst francis group, aninformsbusiness an auerbach book **review of the book "secure and resilient software ...** - "secure and resilient software development" by mark s. merkow and lakshmikanth raghavan crc press, taylor & francis group, 2010 isbn: 978-1-4398-2696-6 dr. emin `islam tatli daimler tss july 2011 1 summary of the review this book is a "must read" resource for security experts focusing on application security and for appli- **secure and resilient cloud computing for the department of ...** - hardware from a department of defense (dod) cloud and compose the software and services needed to ingest, enrich, create, and share knowledge from the data, while ensuring that the resulting capability remains secure and resilient (i.e., able to continue operations after a disruption). **secure, vigilant, and resilient agency - deloitte us** - moving toward a more secure, vigilant, and resilient agency because you can't prevent all cyber incidents, agencies need to be secure, vigilant, and resilient. with many organizations today already breached by cyberattackers—and with many unaware of the breaches—realisticall y assessing your agency's changing risk proile becomes **building secure, resilient architectures for cyber mission ...** - building secure, resilient architectures for cyber mission assurance harriet g. goldman "you are going to be attacked; your computers are going to be attacked, and the question is, how do you fight through the attack? how do you maintain your operations?" - It gen ted **cyber resilient security in 14th generation of dell emc ...** - 6 cyber resilient security in 14th generation of dell emc poweredge servers 2 the path to a secure server infrastructure dell emc poweredge servers have featured robust security for several generations, including the innovation of using silicon-based data security. in 14g, we have extended silicon-based security to authenticate bios **software security is national security - icitech** - introduction: a lack of software security is a national threat software runs the world. pcs, mobile devices, the cloud, the internet of things, operational technology, vehicles, appliances, utilities, and nearly every modern device runs on code. consequently, the importance of resilient software is of utmost importance to a safe and secure world. **engineering cyber resilient weapon systems** - engineering cyber resilient weapon systems melinda k. reed ... secure and resilient system design and sustainment ... -establish an outline to identify engineering design and analysis considerations for the software in secure and resilient weapon systems ... **secure, resilient computing clusters: self-cleansing ...** - secure, resilient computing clusters: self-cleansing intrusion tolerance with hardware enforced security (scit/hes) david arsenault, arun sood, yih huang computer science department george mason university fairfax, virginia, usa {darsenau, asood, huangyih}@csu abstract the formidable difficulty in securing systems stems in **ndia cyber resilient and secure systems metrics and ...** - resilient and secure systems which are at least one and at best two generations ahead of our adversaries. as defense system integrators and the extended industrial base designs, develops, test, and field systems, it is imperative that we maintain security at the forefront of our priorities. **secure and resilient cloud computing for the department of ...** - software and services needed to ingest, enrich, create, and share knowledge from the data while ensuring that the resulting capability remains secure and resilient (i.e., able to continue operations after a disruption). within days, the staff has an initial system for analyzing the isr data up and running. **byzantine-resilient secure software-defined networks with ...** - byzantine-resilient secure software-defined networks with multiple controllers in cloud he li, student member, ieee, peng li, member, ieee, song guo, senior member, ieee, and amiya nayak, senior member, ieee abstract—software-defined network (sdn) is the next generation of ne tworking architecture that is dynamic, manageable, cost- **solutions for a secure, resilient grid - ornl** - a secure, reliable, and resilient electric grid. recent impacts smart neighborhood—deploying unique transactive controls to harness internet of things devices for better load balancing in a new residential community with industry partner southern company. microgrid controls—creating and testing open source, cyber-secure software **achieving dod software assurance (swa)** - achieving dod software assurance (swa) thomas hurt ... assurance to improve confidence in secure and resilient weapon systems for over a decade. jfac: joint federated assurance center. distribution a statement. approved for public release by dopsr. ... - software assurance in the agile software development lifecycle **towards a secure and resilient industrial control system ...** - towards a secure and resilient industrial control system with software-defined networking. dong (kevin) jin, jiaqi yan, xin liu, christopher hannon (illinois institute of technology) hui lin, zbigniew kalbarczyk, ravishankar iyer (university of illinois urbanachampaign)-chen chen, jianhui wang (argonne national laboratory) **secure and resilient sdn with big**

cloud fabric - secure and resilient sdn with big cloud fabric management plane security before deploying the big cloud fabric, you must secure the management plane, that is, the communication mechanisms that external clients use to configure or monitor the fabric. the following sections describe the features that bcf provides **building a resilient and secure power grid a ucf microgrid ...** - ece building a resilient and secure power grid -a ucf microgrid demo wei sun, assistant professor of ece zhihua qu, professor & chair of ece ace conference december 4th, 2017 **implementing an effective cyber assurance program** - on-premises or cloud-hosted software that act as a control point to support continuous visibility, compliance, threat protection, and security for cloud services "casb is a required security platform for ... secure. vigilant. resilient. cybersecurity governance **software measures and metrics to reduce security ...** - swmm-rsv agenda - afternoon 1130 lunch 1300 cisq measures of secure, resilient software, dr. bill curtis 1320 mostly sunny with a chance of cyber-doom, david flater 1340 efficacy and benefit of dynamic testing, dr andrew v. jones 1400 breakouts 1420 break 1450 breakout reports: 6 x 5 minutes 1520 toward evidence-based low defect software production, **sixth annual secure and resilient cyber architectures ...** - this report was compiled from sessions at the mitre sixth annual secure and resilient cyber architectures invitational, 2016 approved for public release; distribution unlimited, case number 17-0914. 2016 the most recent invitational, which took place on 18-19 may 2016, centered on the theme of institutionalizing cyber resiliency. **juniper networks secure development lifecycle** - juniper networks secure development lifecycle white paper ©2015, juniper networks, inc. executive summary this document describes juniper networks' process for developing products that are more secure, more resilient, and better able to address security requirements for service provider customers, enterprise customers, and internet users. **developing secure & resilient next generation ...** - software development vehicle communications & network security. diagnostics & prognostics • seamless mobility • secure mobile ip sessions • integrating emergency services / crash notification routing • gprs • dsrc • evdo • hsdpa • wifi • wimax service provisioning & support systems transportation research, analysis & modeling ... **building a secure - mit** - secure and resilient resilient network. internally, the biggest organizational chal-lenge may be to give individuals a solid understanding of the interdependencies and operational imperatives that now exist. the center for transportation & logistics at the massachusetts institute of technology (mit) initiated a **design and deployment of secure, robust, and resilient sdn ...** - software defined networking and security sezer, s., et al. "are we ready for sdn? ... secure, robust and resilient (referred to as 'security')": • the controller is designed to reduce the risk of intrusion/attack at the network control layer; • the controller is able to withstand errors in control layer **building resilient systems: the secure software ...** - building resilient systems: the secure software development lifecycle software engineering institute carnegie mellon university. pittsburgh, pa 15213. mark sherman, phd. technical director, cert. mssherman@sei **security in the software lifecycle - sei digital library** - software that contributes to more resilient operations. ... unlike other works published on secure software engineering, secure programming, secure coding, application security, and similar topics, ... security in the software lifecycle draft version 1.2 | august 2006 . **secure resilient intelligent microgrid platform** - secure resilient intelligent microgrid platform framing the problem 23 may 2012 charles y. chen program manager charlesen@ngc northrop grumman electronic systems **2nd annual secure and resilient cyber architectures workshop** - mitted to building more secure and resilient architectures have to promote a change in mindset. therefore, all stakeholders must recognize that: 1. even with correct implementation of all the necessary perimeter-based security, and all the continuous monitoring to ensure that patches are applied and vulnerabilities are **resilient distribution systems portfolio overview - energy** - 1.5.02 - resilient alaskan distribution system improvements using automation, network analysis, control, and energy storage (radiance) goal: increase grid resilience for geographically remote communities using a cyber-secure resilience **year in review - carnegie mellon university** - deploy innovative, software-enabled components and systems that are affordable, secure, resilient, and easy to modify. at the sei, our technical work in the areas of software and cybersecurity promotes improved assurance of those software system qualities and behaviors, in particular those related to software cost and cyber vulnerability. **how to build a cyber resilient infrastructure - ill** - cyber resilient architecture is a vital aspect of the latest poweredge server portfolio. it is designed to protect servers wherever they reside, including traditional data centers, remote office facilities and as part of software-defined data center architectures. under the umbrella of cyber resiliency, it and **managing cyber risk in health care the imperative to ...** - the imperative to become secure, vigilant, and resilient ... •software or hardware vulnerabilities ... become secure, vigilant, and resilient. establish an effective interaction model with ciso and it risk officer. define the right balance between threat-centric vs. **resiliency by design, defeating all threats cyber and ...** - building a cyber resilient system trusted baseline continuous trust restoration start secure operations & support stay secure return secure build trusted baseline •system security engineering •anti-tamper •cybersecurity/rmf •software security •mission assurance •supply chain risk mgmt •tempest •other countermeasures secure our ... **dispatch: secure, resilient mobile reporting** - device that runs the same software as the client. the soft- ... and in such a way that is resilient to internet disconnec-tion. dispatch is designed so that components including the key issuer, publishing server, and message router can be ... secure hash standard (shs), march 2012. **resilient, recoverable it for government services** - remaining secure,

resilient and trusted, is far from easy. how can you reconcile the ever-challenging expectations of your community with constant budget squeezes, evolving technology trends, new policies and targets? for both the it services your team depends on and those you provide to others, cloud computing **a secure, resilient and compliant solution for aws cloud** - a secure hosted environment, resiliently connected. you retain control over ... resilient and secure mission-critical application workloads. we are the only g-cloud provider to ... security, applications and software, business continuity and recovery, and consulting services. our enterprise-**mcafee and ibm resilient incident response platform** - software directly from the ibm resilient platform. when using the mcafee epo software function in ir workflows, security analysts can automatically or manually trigger mcafee epo software to act on the systems that are tracked in ibm resilient artifacts by using tagging to initiate quarantine or other actions for remediation. **ground system architectures workshop tutorial d** - threat landscape w/ software - what is sw in a ground system? - sw security is required but barriers exist - what about nist? - approach for secure and resilient software • system threat modeling • sample process for developing secure software • alphabet soup - va, sca, oa, cwe, cve, cwss - ground software example: feps **industrial iot gateways in secure and resilient cellular** - secure and resilient cellular and vpn deployments kawal grover, technical marketing engineer ... additional hardware or client software. • hardware encryption, with greater scale ... provided highly secure connectivity on the move as well as in remote locations. the ignition management **sure: a modeling and simulation integration platform for ...** - provides a brief overview of secure and resilient cps. section iii describes the goals and the system architecture of the sure platform. section iv presents the cps modeling and simulation integration tools that are the main ... software [19], formal methods for automated verification . **about cyxtera a new kind of security company. a new kind ...** - a new kind of security company. a new kind of data center company. ... • software-defined perimeter solutions for dynamic and adaptive network access ... with an integrated, secure and resilient infrastructure platform for critical applications and systems. cyxtera. **vxrail cybersecurity solutions overview - emc** - a secure infrastructure is to keep their software patches current. the vxrail team engineers, tests, and releases updates to all system software components as a bundle. a software bundle can include updates to bios, firmware, hypervisor, vsphere or any of the included management components. **integrated adaptive resilient asymmetric data security** - can provide provable secure resilient data confidentiality, as well as integrity. by provable secure, we mean that we can withstand any kind of security attacks, no a general practical method to protect data confidentiality even when parts of systems are compromised **integrated adaptive resilient asymmetric data security a secure and resilient wsn roadside architecture for ...** - a secure and resilient wsn roadside architecture for intelligent transport systems jens-matthias bohli, alban hessler, osman ugus, and dirk westhoff nec laboratories europe, network research division nec europe ltd. ... ing the best achievable security by purely applying software **investing in software resiliency - static1.1.sqspcdn** - investing in software resiliency software is inherently error-prone and such errors can lead to failure of those systems of which the software is part. on the ... result, only as resilient or secure as its weakest component. this aspect of con-text is key when attempting to evaluate the combined resiliency or security of a com-

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