



Non-repudiation 256- hit key to decrypt Software Reverse Engineer Incomplete Mediation inability to refute Anti-Disassenby: prevent or A failure to validate input veryolony key; high impossible or adherence to delay reverse engineering Ex; (lient (web browser) validations to menorize. User will store obligation form data but Server doesn't of code insecurely; may as well not Anti-Debugging - intended to prevent anysis Exilegal signature Trudy could after form data even have this on a contract prior to Server's reciept mls Emparements Collisions (Surcasa) tamper-Resist-7 difficult for Alkr to modify coule "keys" within classifiction levels Exi TS E Dog 3 feature, not a problem? Code Obfuscution -> Decrypted EXE segments and/or nonsensicul code present to prevent/delay . Mushes map any input to a Those with the deardise of this key Exallenth output thes Static Analysis Graning malvowe we running it output could "collide" with If multiple keys heg'd Basic - 7 No instruction inspection but can hiss key behaviors, fails on advanced majure but it's quick another cutput, even though @ classification level, inputs differ Must passess themall Advanced -> Complex, requires understanding Assembly weak collision Resist Ex: TS Ecae, Dog 3 but GK stored passwords in D.B. Creator of password knows it, only have Ecolog dearone? Dynanic Analysis run malware, monitor effects Ex. Hybrid tralysis website (VM sandby runs s/w) but we store Lash not clearfest Buffer Overflow oBasic-7: neffective on some Malurre (anti-Debug).
can be easy but need safe isolated environment (weak) intensible the finds Data in butter expeeds another though for some output storage; floods into · Havanced -> examines internal (it running) state of Strong => infersible any other input other locations Gx of smashing the study malware, runs debuger Incident Response (IR) generales identical autput * Dura integrity checker Seen I distrally signing ducs * Rest-Cause Analysis -> How did attacker get in? Lanary what did they do/change? How long did they have access. Do THEY STILL?!? Runtine Stuck check Piffie Hellman weaknesses Dead? Indicates potential tampering of the stack - Dissecting Malware is oritical componentopu intense WPT large Keys Address Space Layour Rand. Sund Daying satelisolated environment for very susceptible & Mith Atks Relies on mutual frust or testing (malware, unknown code, new program Rundonizes where code before it goes to production] - typically a Vn is placed in memory/stuck another nears of exchanging rwher them separate full system (cheaper) Baffer Overflow becomes Secure session icey (PoFoSo) probability based now Multilevel Security (MLS) Akin to Roach Motel or our inner box from SRE & Malware lab; locked down, limited Code Reviews Classifications-7 resources/objects · Collaborative review of access machine to test on w/o leron, Clearances - 7 people / subjects cade across development teams - Alkars "spot-check" Malware into network the wild A Regid when subject/object @ of cale for errors different levels using same system Ethically, just because we can reperse engineer Itelps Facilitate codebuse sofeware, doesn't mean we should [w.R.T. Bell-LaPadula (BLP) Knowledge IRL propreitary software) Menury Sate Lang. Indended to express essential rays for implementing an MLS Indirectly alters memory (unlike () · facus = confidentiality; prevent unanihorized reading of objects (Ex. Java or C# · Could also use A No Read Up, No Write Down nevery-safe function - intended to encapsulate objects-Exi stracpy in C Bita Model Foous = data integrity rather than stropy presention of unathorized windy Crypto flash Function * Dual of BLP* Kunpressed -7 small cutput Efficient -> easy to compute hush for any input No Read Pour, No Write Up kneway Trap door-7 intensible to portion the much in reverse

