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HOWTO Secure and Audit Oracle 10g and 11g - CRC Press Book Oracle is the number one database engine in use today. The fact that it is the choice of military organizations and agencies around the world is part of the company's legacy and is evident in the product.

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forums. The list of people is too long to mention here but if you have ever taken the time to sit down with me and explain what you need, I thank you for that. Ron Ben-Natan xiii Author Ron Ben-Natan has more than 20 years of experience developing enterprise applications and security technology for blue-chip companies. Prior to t his he has worked for companies such as Merrill Lynch, J. Ron is an expert in distributed application environments, application security, and database security. He has authored 11 technical books including Implementing Database Security and Auditing. He speaks frequently at database and security seminars including sessions run by Oracle University. An oracle is a person or agency considered to be a source of wise counsel or prophetic opinion; a n infallible authority, u sually spiritual in nature. It may a lso be a re vealed prediction or precognition of the future, from deities, that is spoken through another object e. In the ancient world many sites gained a reputation for the dispensing of oracular wisdom: A pretty good name for a database management system DBMS. But there is another important bit of history behind the use of the word Oracle to name the database engine. The code name for the project was Oracle the CIA saw this as the system to give all answers to all kind of questions intelligence analysts had. Larry Ellison and Bob Miner saw the opportunity to t ake what they had started as part of this project and market it. Maybe this origin is the reason that Oracle has more security-related functions, products, and tools both built by Oracle as well as available as third-party products than any other comparable DBMS in the world. Unfortunately, th e f act th at th ese ca pabilities e xist d oes n ot m ean th at th ey ar e a lways well-known and used correctly. In fact most users of the Oracle database, even those who have been working with Oracle for many years, are often familiar with less than 20 percent of the security mechanisms within Oracle. There a re m any other forms t hat t his d ata c an takeâ€"data in documents, data in e-mails, data in IM messages, etc. These do n ot u sually l ive inside the database and there are other tools and techniques not covered in this book for securing these endpoints. These d ata e lements a re o ften p ermutations o f d ata t hat w as so urced f rom a d atabase. A lmost a ll i nformation t hat yo u a nd yo ur o rganization c onsider to b e va luable resides in a database in some form or at some point in time. What if your proposal required you to add 10 to your headcount? Will it still be so obvious that you need to secure the data to that level? That depends on what value this investment provides at a business level and what business problem this investment solves. At a v ery high level, t he reasons for securing your data fall into t wo broad c ategoriesâ€"you need to avoid a data breach and you need to remain in compliance with some internal or external set of requirements. Both data breaches and noncompliance can cost an organization dearly. Noncompliance too can be very costly. When you build your business case for elevating the security of your data you may have to justify it with a return on investment ROI. You usually do not need to justify this part with an ROI. Security is in many ways like buying insurance. There is no ROI on buying home insurance. If nothing happens during that year and normally nothing does then you get no return on a sizable investment. This is where ROI comes in. Given a set of requirements, there a re u sually m any w ays to a chieve t hem. At this point, you will have to justify your decisions to implement one method over anotherâ€"and this is done by showing that one method has a much better ROI than another. Data Breaches There are many resources and Web sites that track data breaches. This list enumerates more than just database-related breachesâ€"it lists all kinds of data-related breaches which include also things like stolen laptops, etc. This list only covers reported incidentsâ€"and not all incidents are reported by any stretch. The list covers only incidents reported in the United States. This includes a r unning total of the number of records that have been compromised. Just to give you an idea of the magnitude of the problemâ€"between and June there have been at l east million records compromised as part of the reported data breaches in the United States. Here is a small sampling of some known incidents involving database breaches not necessarily Oracle databases: The breach occurred on August 1 but was not detected until the end of the month. There w as no h acking i nvolvedâ€"just a m isuse of i nsider privileges. The incident was discovered because a local woman complained about receiving calls from a Progressive agent i nquiring a bout h er h ouse b eing u nder fo reclosureâ€"not b ecause t here w as a ny database monitoring or auditing in place. These activities led to customers receiving marketing solicitationsâ€"which was how the incident was exposed. The stolen information included names, addresses, and e-mail addresses plus a variety of account activity information. The company reported that it d iscovered a nd eliminated u nauthorized c ode. A lthough it d id not provide f

urther details, it is likely that this was done by a privileged user. Data breaches have, unfortunately, become part of our daily lives. In addition to looking at long lists of incidents, it is instrumental to look at some commonalities. This report draws from over forensic engagements handled by the Verizon Business Investigative Response team over a period of four years. The report provides statistics on how breaches occur, where t hey occur most in ter ms of verticals , what methods were u sed, and more. For example, the report lists that most breaches resulted from a combination of events rather than a single event but in almost all cases some form of error contributed to a c ompromise, whereas less than a q uarter of attacks exploited vulnerabilities. This shows how important it is to k now how to use the security options correctly. Th is is shown in Figure 1. The importance of visibilityâ€"visibility into where sensitive data resides, visibility into who or what is accessing sensitive data, visibility into controlsâ€"is perhaps t he most important element t hat must exist for a d atabase to b e secure.

2: Howto Secure and Audit Oracle 10g and 11g by Ron Ben-Natan

Written by Ron Ben Natan, one of the most respected and knowledgeable database security experts in the world, HOWTO Secure and Audit Oracle 10g and 11g shows readers how to navigate the options, select the right tools and avoid common pitfalls.

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3: HOWTO Secure and Audit Oracle 10g and 11g - Ebook pdf and epub

HOWTO Secure and Audit Oracle 10g and 11g funding or other priorities. Th is is the great power of compliance and the reason that so much of database security is driven by compliance requirements.

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and explain what you need, I thank you for that. Ron Ben-Natan xv Author Ron Ben-Natan has more than 20 years of experience developing enterprise applications and secu- rity technology for blue-chip companies. Prior to t his he has worked for companies such as Merrill Lynch, J. Ron is an expert in distributed application environments, appli- cation security, and database security. He has authored 11 technical books including Implementing Database Security and Auditing. He speaks frequently at database and security seminars including sessions run by Oracle University. An oracle is a person or agency considered to be a source of wise counsel or prophetic opinion; an infallible authority, usually spiritual in nature. It may a lso be a re vealed prediction or precognition of the future, from deities, that is spoken through another object e. In the ancient world many sites gained a reputation for the dispensing of oracular wisdom: A pretty good name for a database management system DBMS. But there is another impor- tant bit of history behind the use of the word Oracle to name the database engine. Th e code name for the project was Oracle the CIA saw this as the system to give all answers to all kind of questions intelligence analysts had. Larry Ellison and Bob Miner saw the opportunity to t ake what they had started as part of this project and market it. Maybe this origin is the reason that Oracle has more security-related functions, products, and tools both built by Oracle as well as available as third-party products than any other comparable DBMS in the world. Unfortunately, the f act that these capabilities e xist does not mean that they are a lways well-known and used correctly. In fact most users of the Oracle database, even those who have been working with Oracle for many years, are often familiar with less than 20 percent of the security mechanisms within Oracle. Th ere a re many other forms that this data c an takeâ€"data in documents, data in e-mails, data in IM messages, etc. Th ese do n ot u sually l ive inside the database and there are other tools and techniques not covered in this book for securing these endpoints. Th ese d ata e lements a re o ften permutations o f d ata t hat was sourced f rom a d atabase. A lmost a ll i nformation t hat yo u a nd yo ur o rganization c onsider to b e va luable resides in a database in some form or at some point in time. What if your pro- posal required you to add 10 to your headcount? Will it still be so obvious that you need to secure the data to that level? Th at depends on what value this investment provides at a business level and what business problem this investment solves. At a v ery high level, the reasons for securing your data fall into two broad categoriesâ€"you need to avoid a data breach and you need to remain in compliance with some internal or external set of requirements. Both data breaches and noncompliance can cost an organization dearly. Noncompliance too can be very costly. When you build your business case for elevating the security of your data you may have to jus- tify it with a return on investment ROI. You usually do not need to justify this part with an ROI. Security is in many ways like buying insurance. Th ere is no ROI on buying home insurance. If nothing happens during that year and normally nothing does then you get no return on a sizable investment. Th is is where ROI comes in. Given a set of requirements, there a re u sually many ways to a chieve t hem. At this point, you will have to justify your decisions to implement one method over anotherâ€"and this is done by showing that one method has a much better ROI than another. Data Breaches Th ere are many resources and Web sites that track data breaches. 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Th e incident was discovered because a local woman complained about receiving calls from a Progressive agent i nquiring a bout h er house b eing u nder fo reclosureâ€"not b ecause t here w as a ny database monitoring or auditing in place. Th ese activities led to customers receiving marketing solicitationsâ€"which was how the incident was exposed. In August , Monster. In September , TD Ameritrade reported that information on 6. Th e stolen information included names, addresses, and e-mail addresses plus a variety of account activity information. Th e company reported that it d iscovered and e liminated unauthorized code. A lthough it d id not provide fur- ther details, it is likely that this

was done by a privileged user. Data breaches have, unfortunately, become part of our daily lives. In addition to looking at long lists of incidents, it is instrumental to look at some commonalities. Th is report draws from over forensic engagements han- dled by the Verizon Business Investigative Response team over a period of four years. Th e report provides s tatistics on how breaches occur, where they occur most in terms of verticals , what methods were used, and more. For example, the report lists that most breaches resulted from a combination of events rather than a single event but in almost all cases some form of error con- tributed to a c ompromise, whereas less than a quarter of attacks exploited vulnerabilities. Th is shows how important it is to k now how to use the security options correctly. Th is is shown in Figure 1. Th e importance of visibilityâ€"visibility into where sensitive data resides, visibility into who or what is accessing sensitive data, visibility into controlsâ€"is perhaps the most important element that must exist for a d atabase to b e secure. Th e report goes on to present the data shown in Figure 1. Data sits in many places and takes many forms. Data can be in a database but can also reside on USB keys. Most of the investment in Oracle security is made because of the need to comply with a regulation or a requirement. There a re t wo k inds o f c ompliance re quirementsâ€"internal a nd e xternal. I nternal requirements are policies that are defined within the company. They include policies set by the information security or internal audit groups and they are usually derived from indus- try b est p ractices, f rom a re gulation, o r f rom p reparation fo r a n e xternal aud it.

4: Howto Secure And Audit Oracle 10g And 11g â€" PDF Download Site

The author describes the security functions of Oracle 10g and 11g such as the configuration settings, data encryption, auditing techniques, risk assessment tools and advanced options such as Virtual Private Database and Audit Vault.

5: Oracle OCP World Â» How to check Audit Failed login count in oracle database for security purpose

knowledgeable database security experts in the world, HOWTO Secure and Audit Oracle 10g and 11g shows readers how to navigate the options, select the right tools and avoid common pitfalls. The text is structured as HOWTOs addressing each security function in the context of Oracle 11g.

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firefly wrote: ultimately im just trying to best audit sysdba. i think the threads have digressed things somewhat to how i would have www.enganchecubano.com were on the right track initially. Set AUDIT_SYS_OPERATIONS to true, write the audit files to the file system into a directory that the DBAs cannot write to. Resist the temptation to look for "newer ideas".

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4 HOWTO Secure and Audit Oracle 10g and 11g In August an Air Force spokesman reported that a hacker tapped into a U.S. military database containing Social Security numbers and other personal information for 33, Air Force oï¬ cers and some enlisted personnel.

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