

**The only deployment ready solution that secures
and controls access to digital assets**



Secure.Data Overview

“There is much more illegal and unauthorized activity going on in cyberspace that corporations admit to their clients, stockholders and business partners or report to law enforcement. Incidents are widespread, costly and commonplace.”

Source: Patrice Rapalus, Computer Security Institute Director

“Now, more than ever, government and private sector need to work together to share information and be more cognitive of information security so that our nation’s critical infrastructures are protected from cyber-terrorists.”

Source: Bruce J. Gebhardt, FBI Executive Assistant Director

90% of respondents
detected computer
security breaches within
the last twelve months.

Source: 2002 CSI/FBI Computer Crime and Security Survey

80% acknowledged
financial losses due to
computer breaches.

Source: 2002 CSI/FBI Computer Crime and Security Survey

44% were willing and/or
able to quantify their
financial losses,
averaging over \$2.4
million dollars

Source: 2002 CSI/FBI Computer Crime and Security Survey

The most serious
financial losses occurred
through theft of
proprietary information.

Source: 2002 CSI/FBI Computer Crime and Security Survey

These losses averaged
over \$4.1 million dollars.

Source: 2002 CSI/FBI Computer Crime and Security Survey

How do you protect your
most valuable
proprietary data?

Agenda

- Overview of Protegrity
- Marketplace
- Solution
- Differentiators
- Customer Base
- Summary

Protegrity: Market

- ⦿ Pressures on Corporations come from several areas
 - ⦿ Regulations
 - ⦿ US GLBA, US HIPAA, US FDA 21 CFR Part 11
 - ⦿ EU Privacy Data Protection Acts/Safe Harbor, Canada's PIPEDA
 - ⦿ Australia, Hong Kong, Japan Privacy Acts etc.
 - ⦿ Argentina Privacy Acts etc.
 - ⦿ Visa U.S.A. CISP
 - ⦿ Audit
 - ⦿ Internal Audit for company privacy standards
 - ⦿ External Audit for Compliance
 - ⦿ Unauthorized malicious access
 - ⦿ External Hackers, Industrial espionage
 - ⦿ Internal malicious access

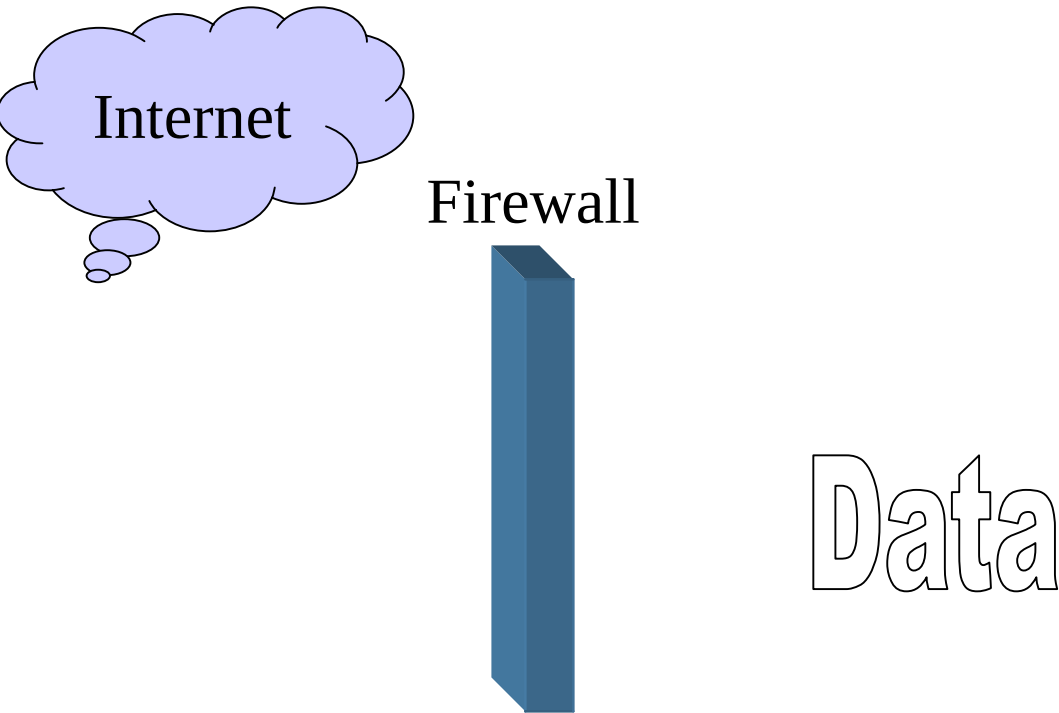
Protegrity: Market

- Corporate data has a small percentage that is “Critical Threat” data
 - On average about 10% of data in a database is confidential
- Breaches of this information occurs from two basic sources
 - External threats account for 40% of disclosures
 - Internal threats account for 60% of disclosures
- The Regulations, Unauthorized access and Audit all demand the same Basic and fundamental conditions be met:
 - Absolute control of access to “Critical Threat” Data
 - Absolute audit of all access to “Critical Threat” Data

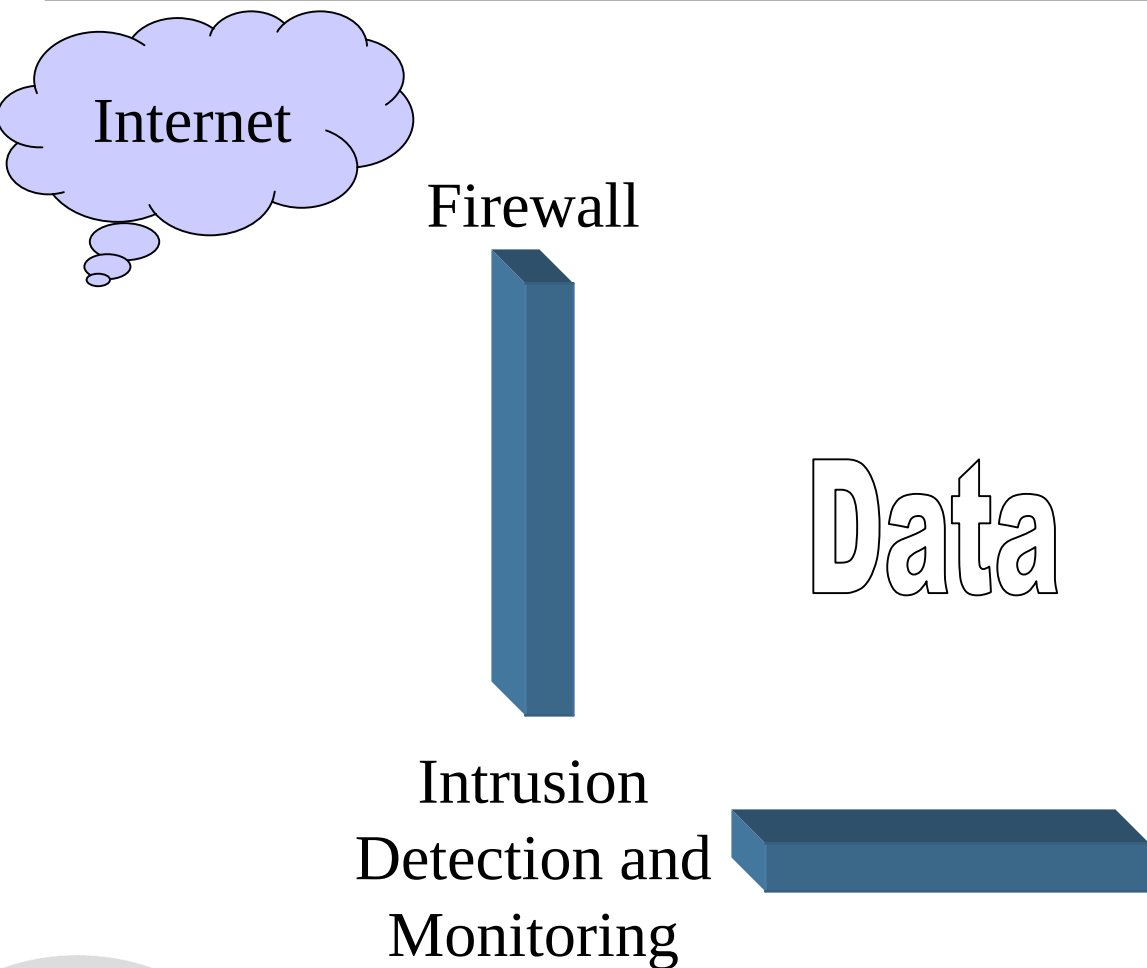
Protegrity: Market

- Companies build walls of protection around this “Critical Threat” Data
 - Four categories of security are commonly deployed

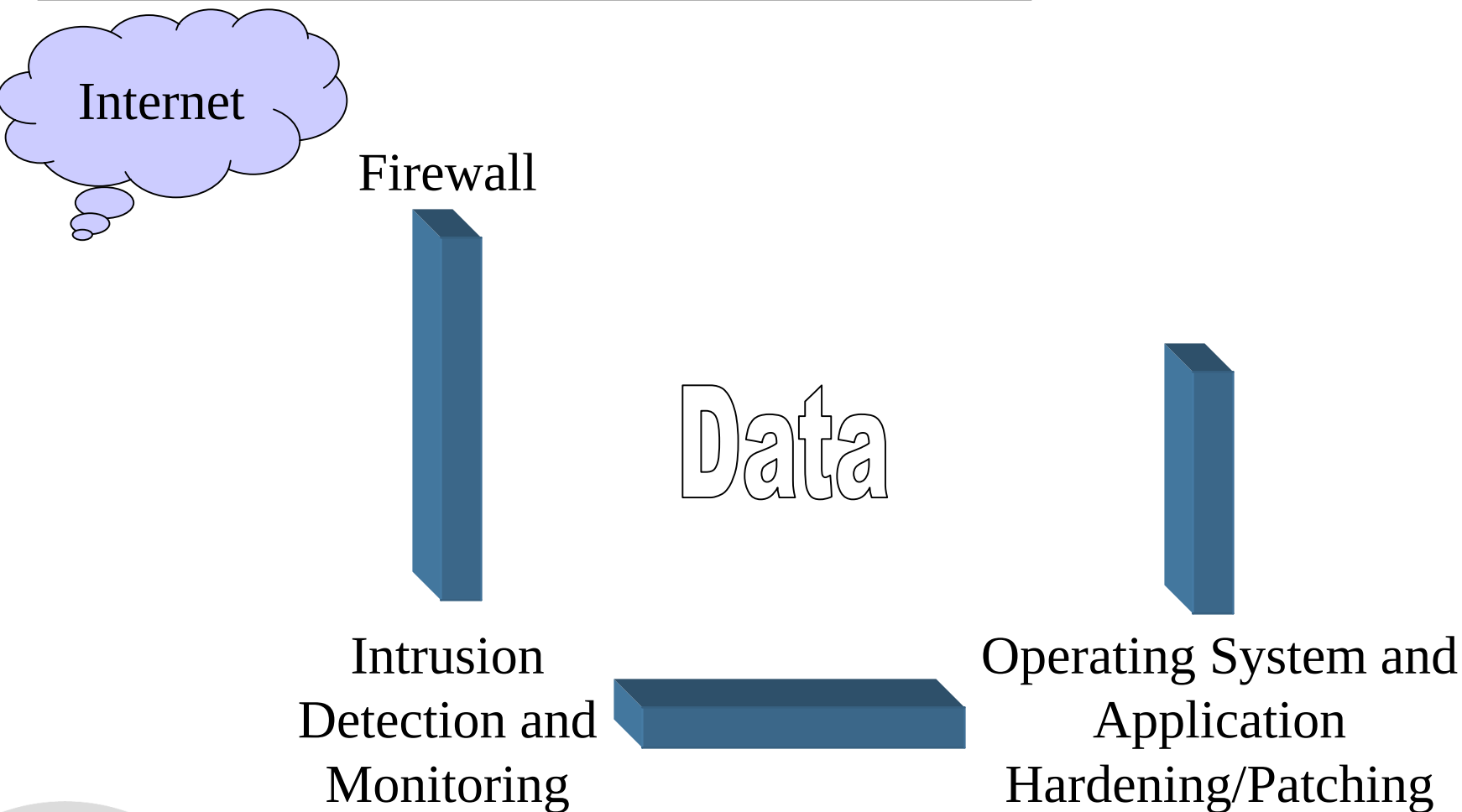
Protegrity: Market



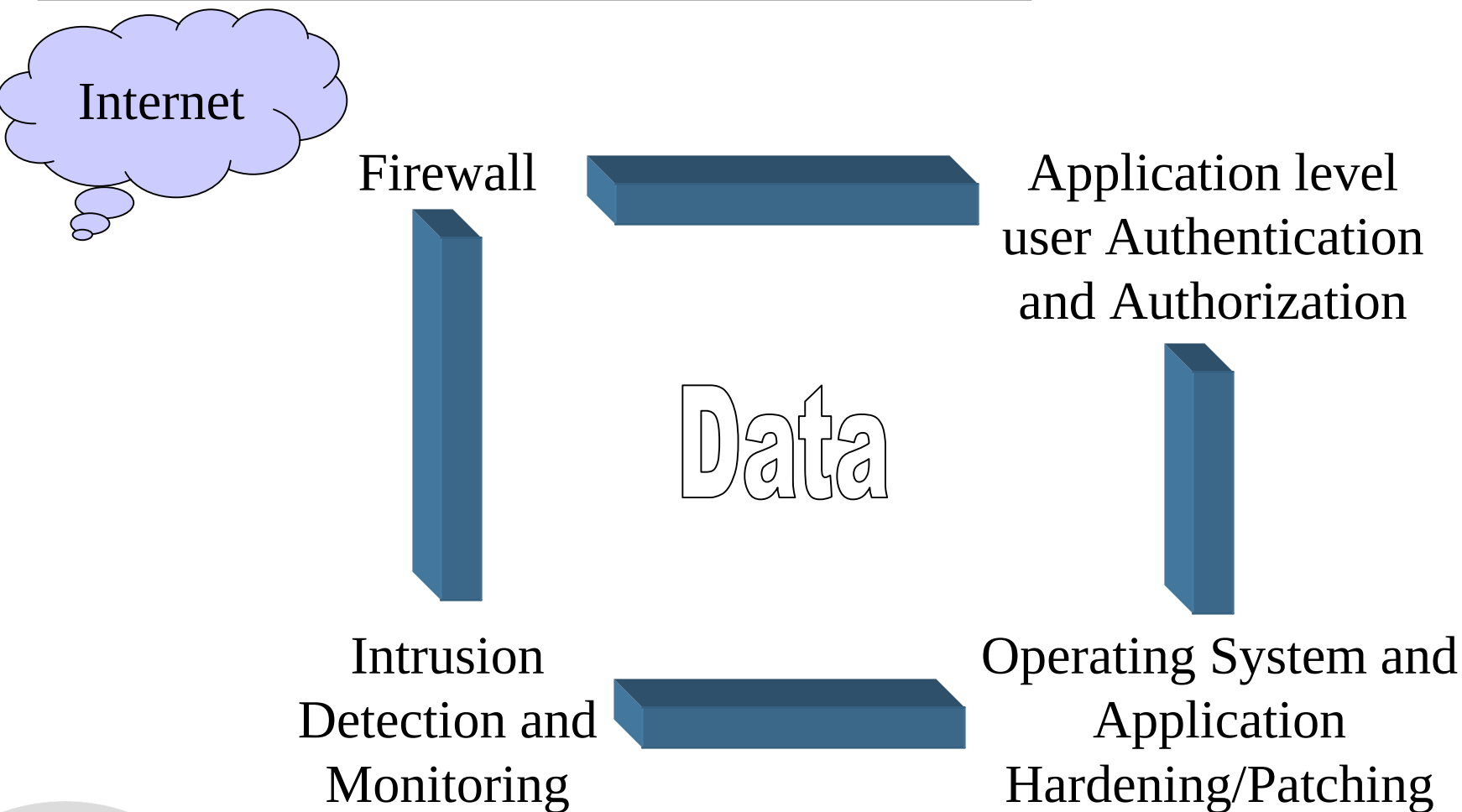
Protegrity: Market



Protegrity: Market



Protegrity: Market



Protegrity: Market

- The Goal
 - Absolutely control access to “Critical Threat” Data
 - Absolutely audit all access to “Critical Threat” Data
- Who still has unrestricted and un-auditable access to “Critical Threat” Data?
 - Application Programmers
 - Database Administrators
 - Super User Accounts, Root/Admin
 - Back up Tapes
 - Physical Access
 - Open Query Tools, Access, Crystal Reports, Excel
 - Hackers who penetrate your firewall

Protegrity: Solution

- Protegrity's Secure.Data Solution
 - Absolute control of access to “Critical Threat” Data
 - Absolute audit of all access to “Critical Threat” Data
 - Unique, proven and patented solution

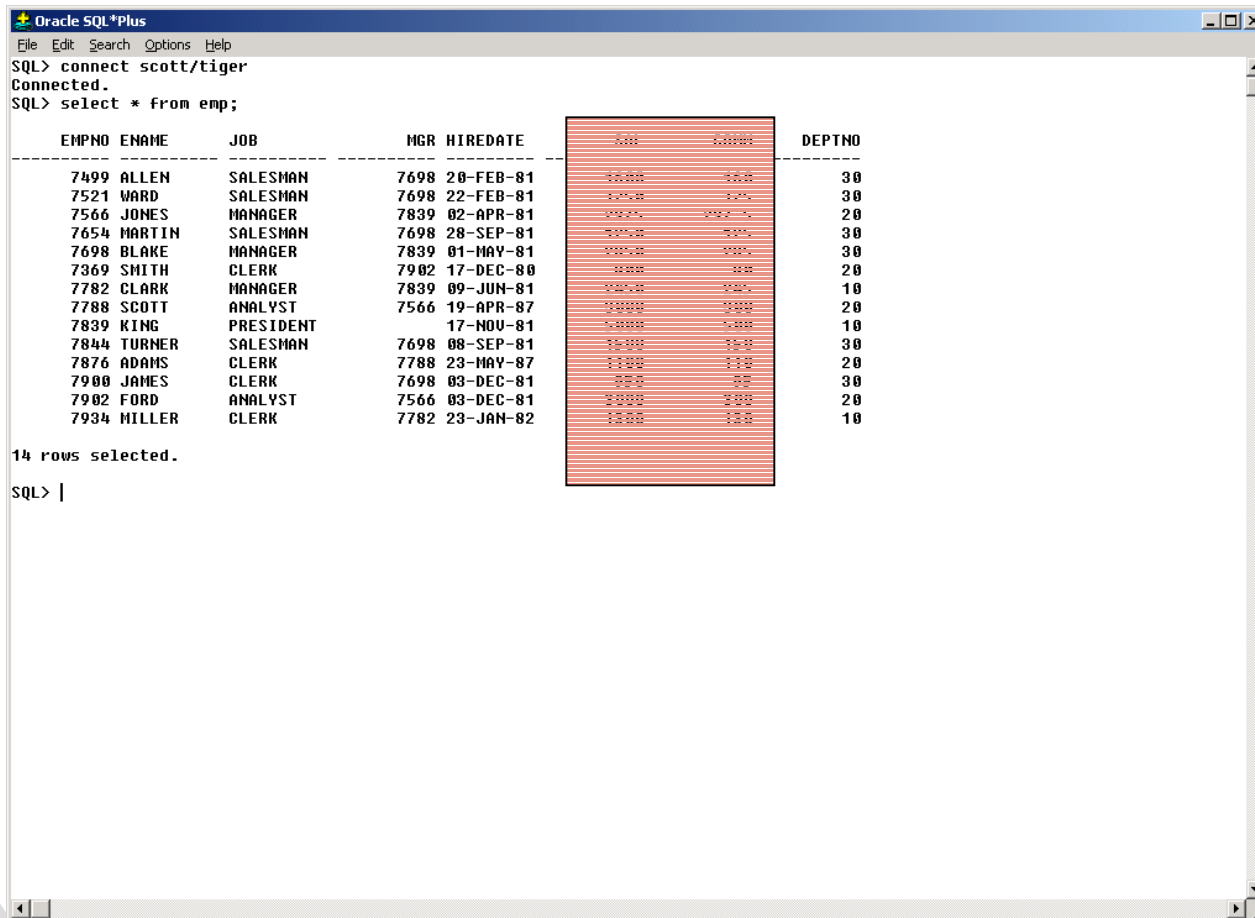
Protegrity: Solution

Four Critical Elements to Securing your “Critical Threat” Data

- Make the “Critical Threat” Data default to no access
 - This is done through selective strong encryption
- Provide access only to explicitly authorized entities
 - This is accomplished by a Role Based Access Control Engine
- Securely audit all access to “Critical Threat” Data
- Create a Segregation of Duties
 - This is done by having Access control and Administration as clearly separate duties

Protegrity: Solution

- Uncontrolled access without Secure.Data, Table owner Scott



```
Oracle SQL*Plus
File Edit Search Options Help
SQL> connect scott/tiger
Connected.
SQL> select * from emp;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	30
7521	WARD	SALESMAN	7698	22-FEB-81	30
7566	JONES	MANAGER	7839	02-APR-81	20
7654	MARTIN	SALESMAN	7698	28-SEP-81	30
7698	BLAKE	MANAGER	7839	01-MAY-81	30
7369	SMITH	CLERK	7902	17-DEC-80	20
7782	CLARK	MANAGER	7839	09-JUN-81	10
7788	SCOTT	ANALYST	7566	19-APR-87	20
7839	KING	PRESIDENT		17-NOV-81	10
7844	TURNER	SALESMAN	7698	08-SEP-81	30
7876	ADAMS	CLERK	7788	23-MAY-87	20
7900	JAMES	CLERK	7698	03-DEC-81	30
7902	FORD	ANALYST	7566	03-DEC-81	20
7934	MILLER	CLERK	7782	23-JAN-82	10

14 rows selected.

```
SQL> |
```

Protegrity: Solution

- Controlled access with Secure.Data, System

```
Oracle SQL*Plus
File Edit Search Options Help
SQL> connect system
Enter password: *****
Connected.
SQL>
SQL>
SQL> select * from scott.emp;

  EMPNO  ENAME      JOB              MGR      HIREDATE    DEPTNO
-----
    7499          SMITH      CLERK            7698  20-FEB-81      30
    7521          ALLEN      SALESMAN         7698  22-FEB-81      30
    7566          WATSON      CLERK            7698  21-DEC-81      30
    7654          JONES      MANAGER         7698  02-APR-81      30
    7698          SCOTT      ANALYST         7698  01-MAY-81      30
    7369          FORD      ANALYST         7698  17-DEC-80      30
    7782          JONES      MANAGER         7698  09-JUN-81      30
    7788          TURNER      SALESMAN         7698  15-SEP-81      30
    7839          BLAKE      MANAGER         7698  17-NOV-81      30
    7844          CLARK      ANALYST         7698  08-SEP-81      30
    7876          MILLER      CLERK            7698  23-MAY-81      30
    7900          JAMES      CLERK            7698  03-DEC-81      30
    7902          BROWN      CLERK            7698  03-DEC-81      30
    7934          GREEN      ANALYST         7698  23-JAN-82      30

14 rows selected.

SQL>
```

Protegrity: Solution

- Controlled access with Secure.Data, Unauthorized User

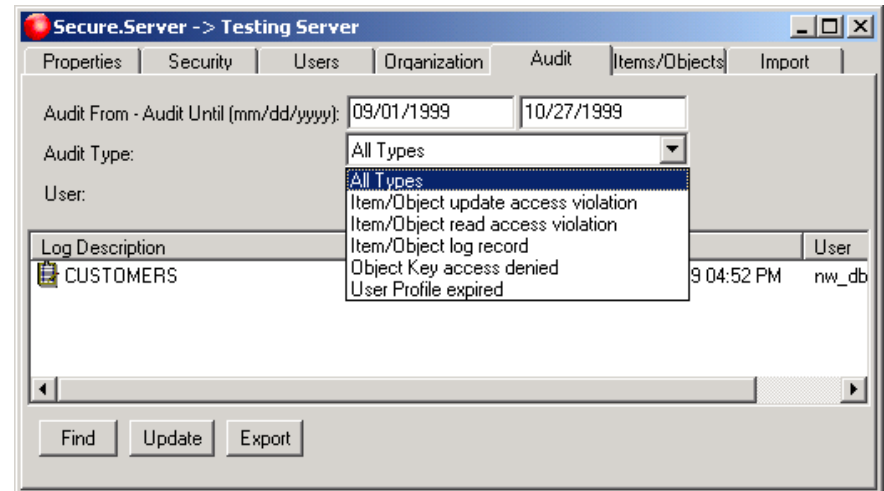
```
Oracle SQL*Plus
File Edit Search Options Help
SQL> connect adam/adam
Connected.
SQL>
SQL> select * from emp;

  EMPNO ENAME      JOB          MGR HIREDATE    SAL  COMM DEPTNO
-----
    7499          CLERK          7698 20-FEB-81          30
    7521          CLERK          7698 22-FEB-81          30
    7566          CLERK          7839 02-APR-81          20
    7654          CLERK          7698 28-SEP-81          30
    7698          CLERK          7839 01-MAY-81          30
    7369          CLERK          7902 17-DEC-80          20
    7782          CLERK          7839 09-JUN-81          10
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    7902          CLERK          7566 03-DEC-81          20
    7934          CLERK          7782 23-JAN-82          10

14 rows selected.

SQL>
```

- Secure Audit of Access to “Critical Threat” Data and policy changes



Protegrity: Solution

- With Secure.Data installed, who still has unrestricted and un-auditable access to “Critical Threat” Data?
 - Application Programmers?
 - Database Administrators?
 - Super User Accounts, Root/Admin?
 - Back up Tapes?
 - Physical Access?
 - Open Query Tools, Access, Crystal Reports, Excel?
 - Hackers who penetrate your firewall?

Protegrity: Solution

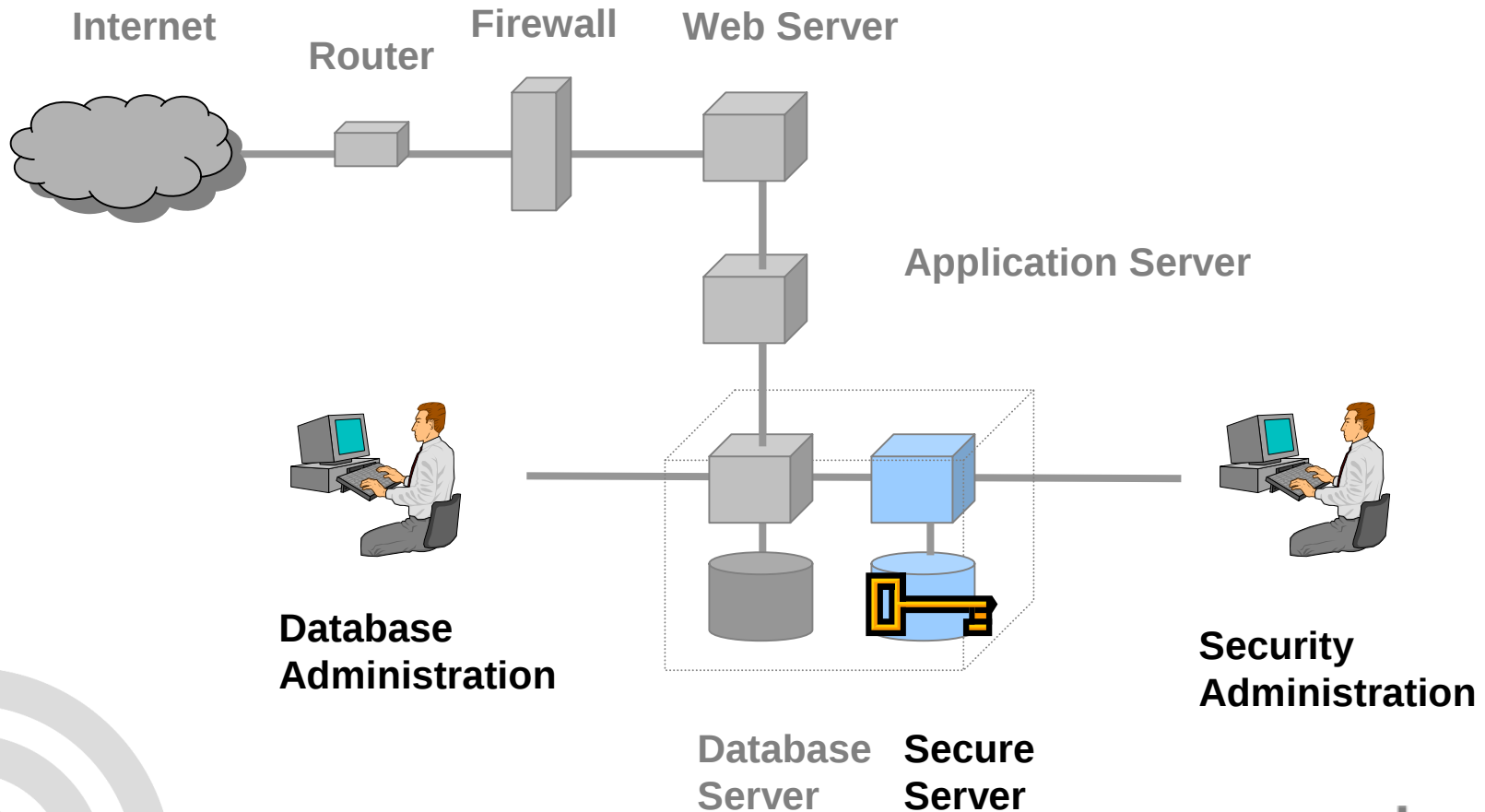
- With Secure.Data installed, who *still* has unrestricted and un-auditable access to “Critical Threat” Data?

- Application programmers
- Database administrators
- Superuser Accounts, Root Admin
- Backup operators
- Physical access
- Operating System, Access, Privileges, etc.
- Hackers who penetrate your firewall

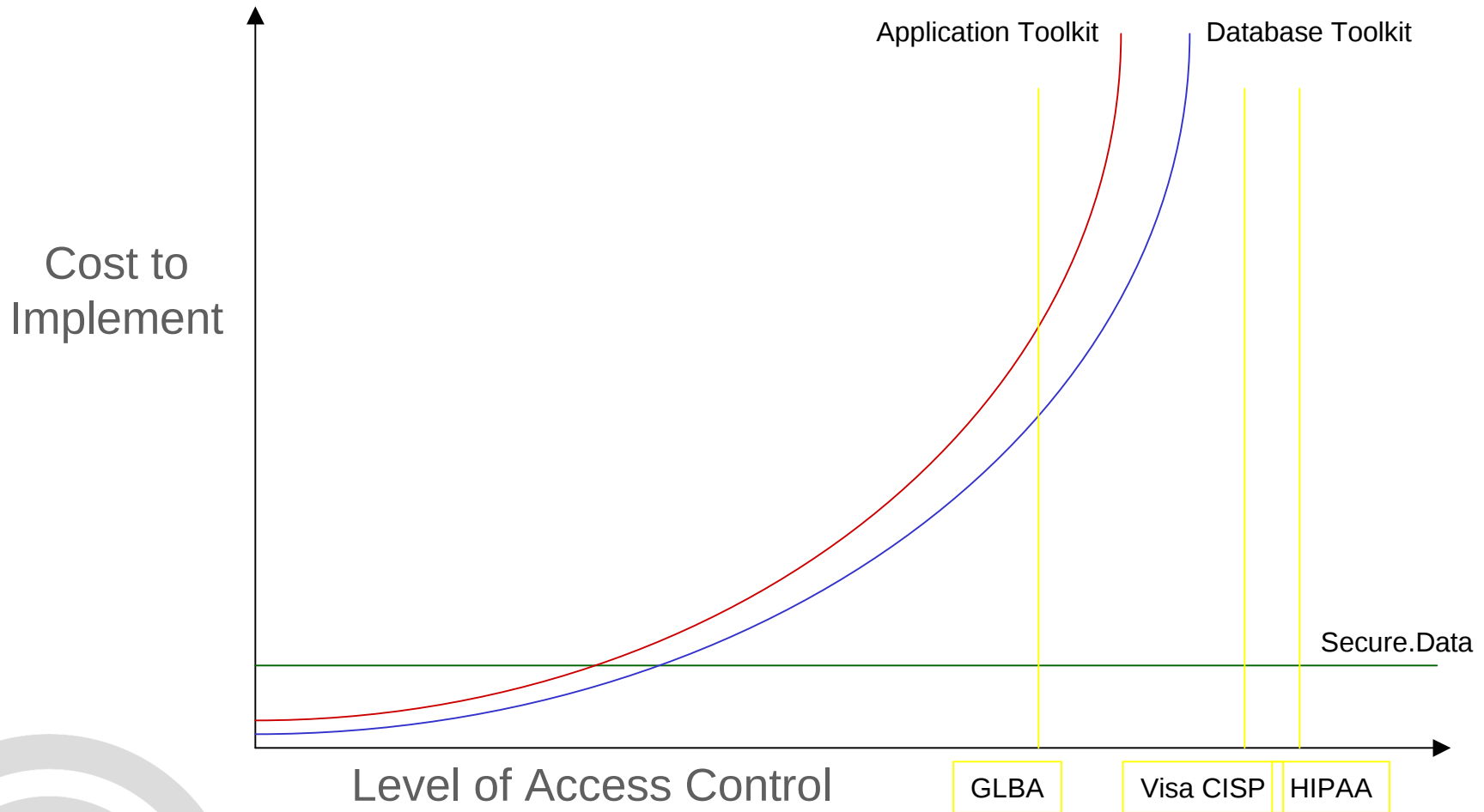
No Access

Protegrity: Solution Architecture

- Secure.Data Architecture

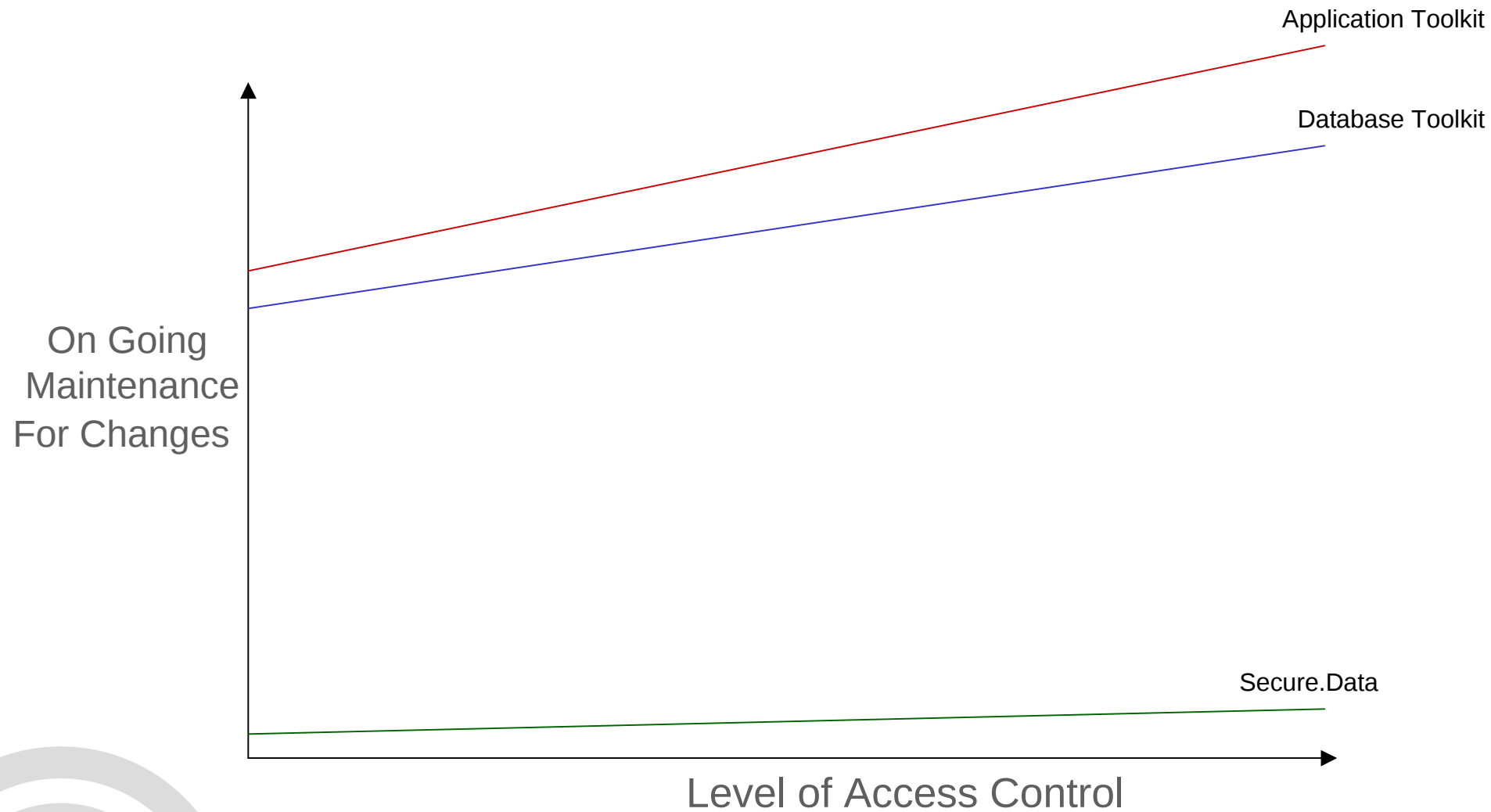


Protegrity: Competitive Advantage



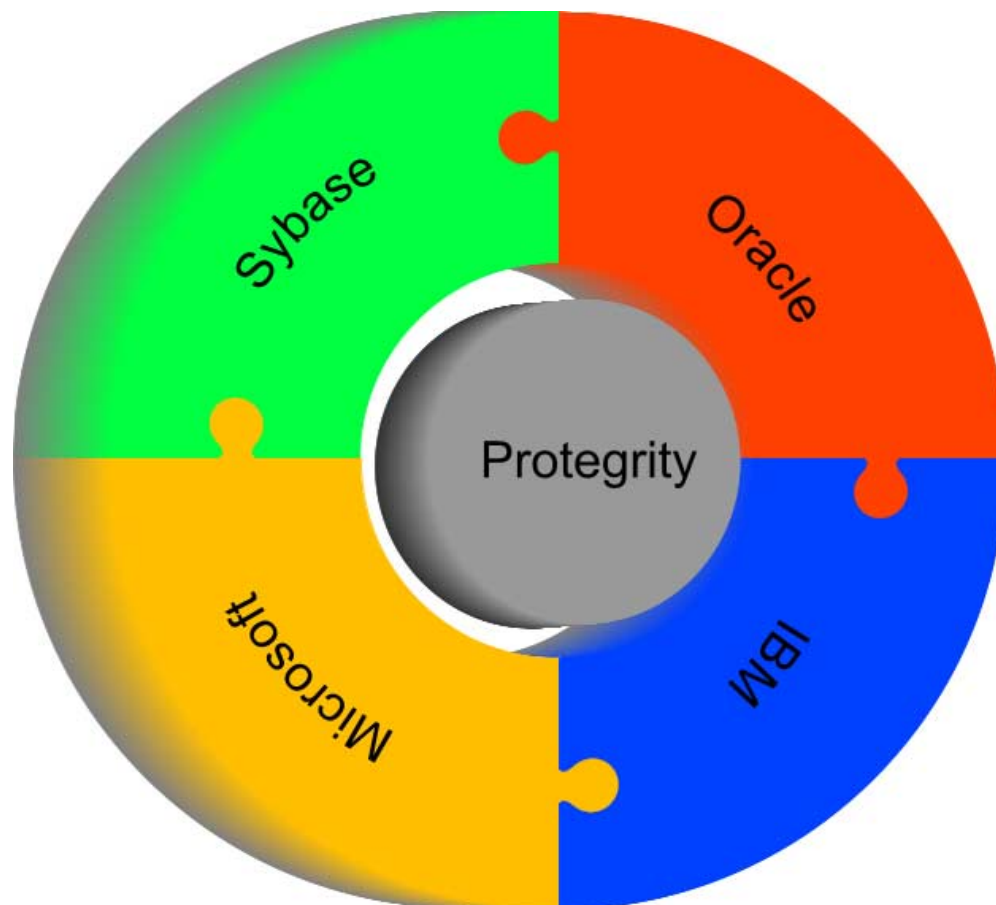
Secure.Data vs. Competitors

Protegrity: Competitive Advantage



Secure.Data vs. Competitors

Privacy Infrastructure for All Database Platforms



We Protect it!

Tangible Benefits of Secure.Data

- Prevent losses and liabilities to the company and executive management
- Enable new business initiatives
- Facilitate out-of-the-box compliance with new privacy and security requirements

Protegrity: Customer Base

- Who is using this new approach to protect their “Critical Threat” Data?

E-Commerce

Commercial Finance

Pharmaceutical

Consumer Finance

Healthcare

Investment Banking

Consumer Products

Summary:

- Elegant solution that solves a difficult and real problem
- Proven technology, protecting “Critical Threat” data in:
 - Investment Banks
 - Consumer Financial Companies
 - Pharmaceutical Companies
 - Commercial Financial Institutions
 - Healthcare Companies
 - Consumer Product Companies

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protegrity

www.protegrity.com