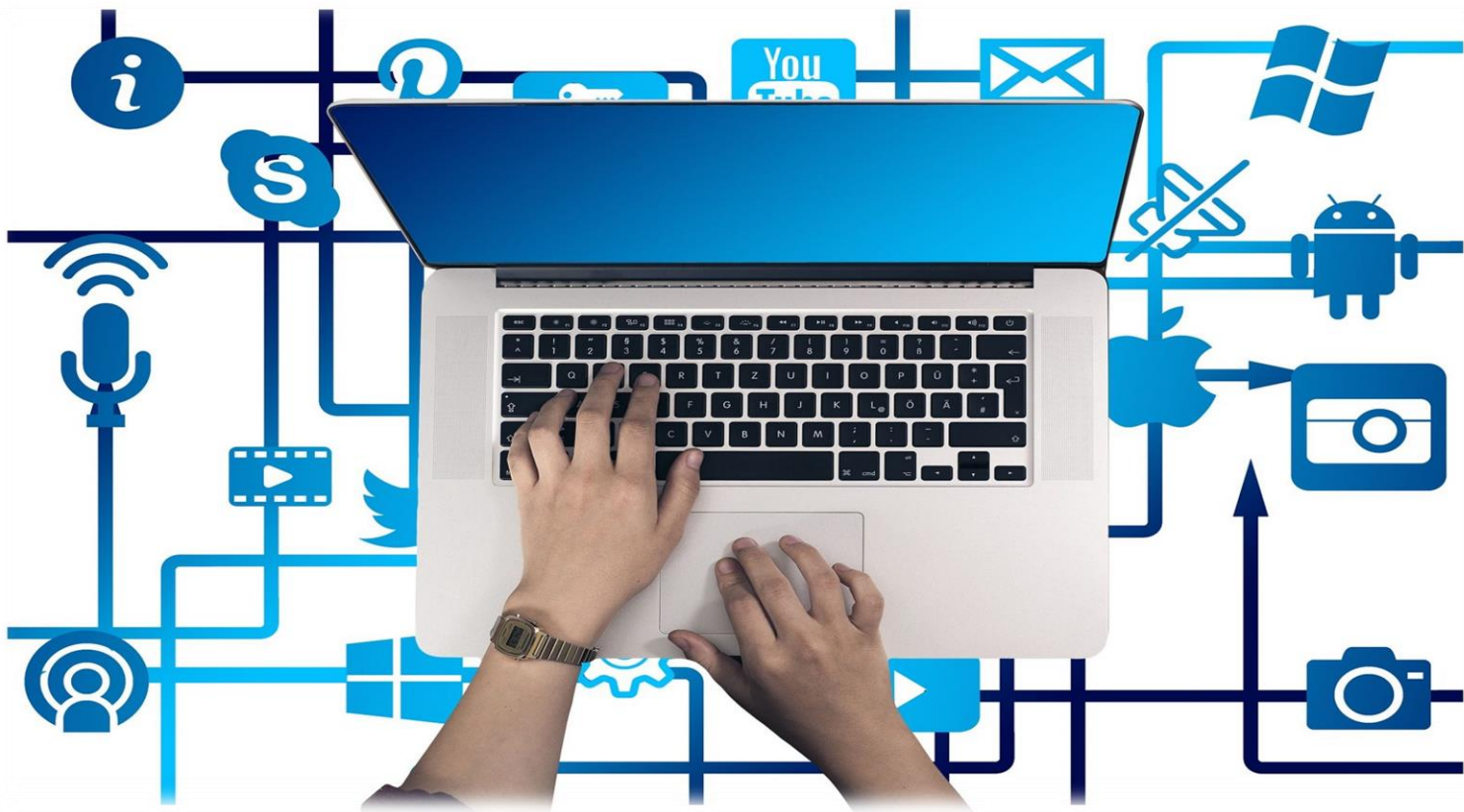


Cyber Security



INFORMATION SECURITY



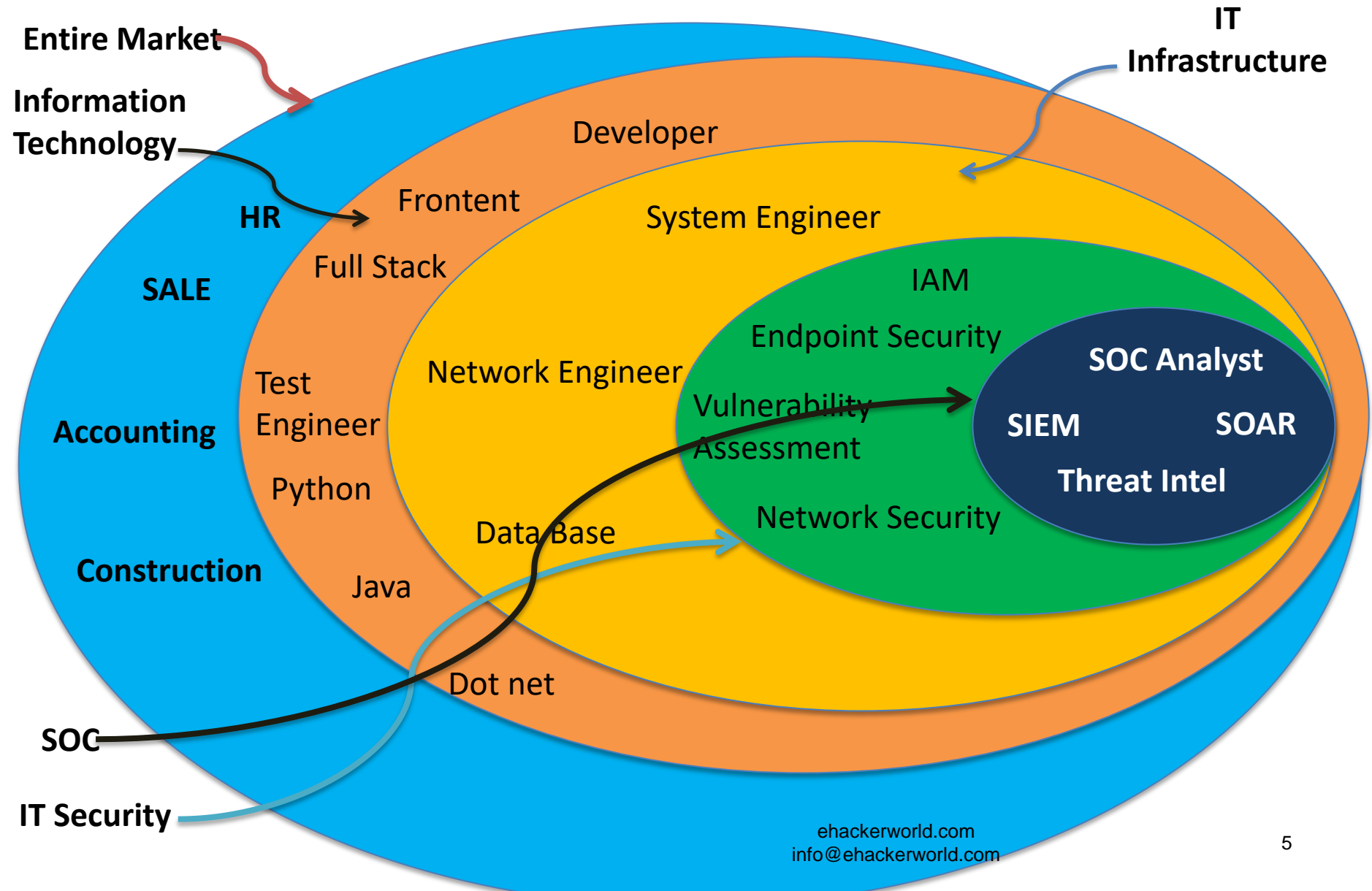
Hacking as an profession (Types of Hackers)



Types Of Hackers

White Hats Hackers	Black Hats Hackers	Grey Hats Hackers
<p>White hats are the good guys, the ethical hackers who use their hacking skills for defensive.</p> <p>They have genuine license who focuses on penetration testing .</p> <p>Don't use their skills for illegal purposes</p> <p>They improve the defense for security</p>	<p>They are the computer criminals. exploits these vulnerabilities for personal gain.</p> <p>They have a motive to earn huge profits</p> <p>Use their skills for personal gains</p> <p>Hack banks, steal credit card personal information placing malware etc</p>	<p>They are also computer experts.</p> <p>They disclose the security flaw to the public</p> <p>Ethical standards fall somewhere between strictly unselfish and strictly malicious</p> <p>Reasons either ethically or unethically depending on the condition and circumstances at hand</p>

Job Market



Related Fields for Civil Engineer



Architect



Mason



Tile Worker



Civil Engineer



Plumber



Electrician



Painter

How IT Evolves in a Company

Lets build a company

Media (Advertising) Company

**Print Media - Banners, Hoardings Brochures
etc.**

How IT Evolves in a Company

2

Who will take care of our computer related problems?

4

We are too small to hire a IT person.

Software Issues - 24 hours

Hardware Issues - 3 days

10,000 USD per Annum

Service Level Agreement (SLA)

IT Infrastructure Team

AMC. Annual
Maintenance Contract



How IT Evolves in a Company

20

Design team sales team finance team HR team

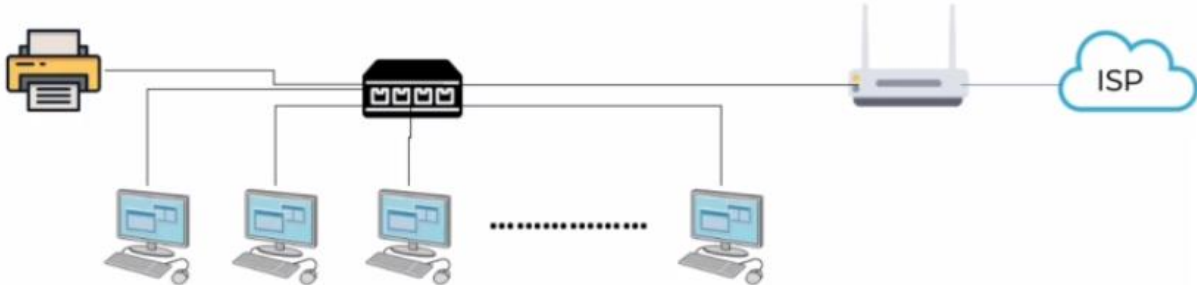
30

AMC cost - 40,000 USD

IT Infrastructure Team

AMC. Annual Maintenance Contract

System Engineer (IT Guy)



How IT Evolves in a Company

200

HRMS - Human Resource Management System Employee Details - Name, Contact Information, Employee Attendance, Salary, Address etc.

300

CRM - Customer Relationship Management
Customer Details - Company Name, Orders Placed, Payments etc.

File Server

Transferring Large files

Email Server

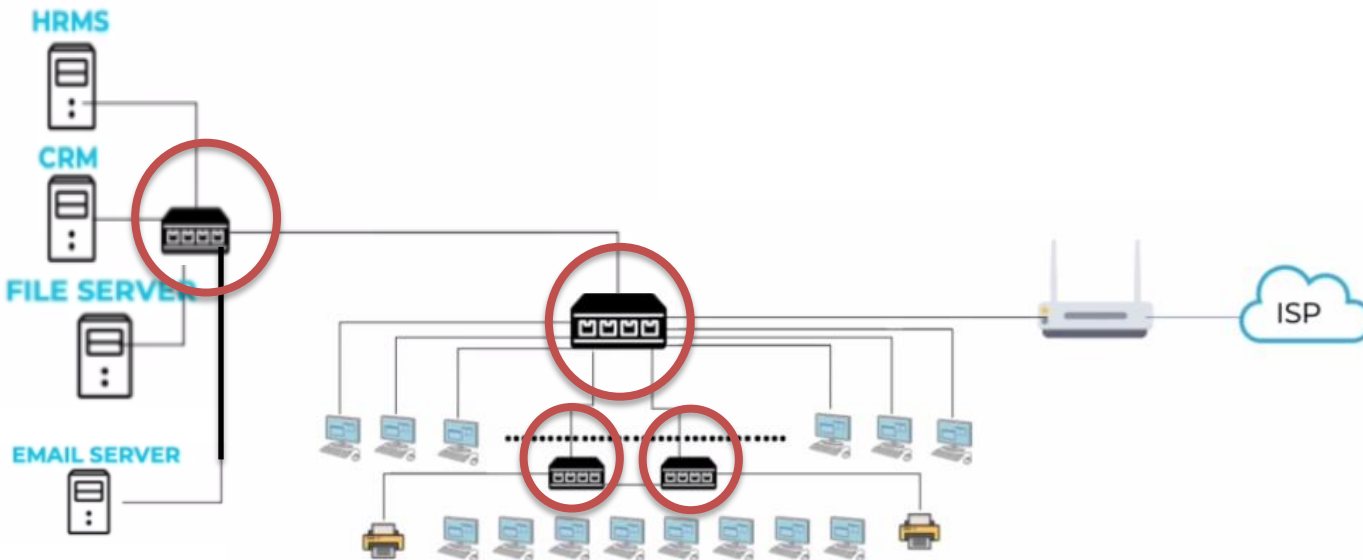
To send emails using custom domain name

IT Infrastructure Team

AMC. Annual Maintenance Contract

System Engineer (IT Guy)

Network Engineer



How IT Evolves in a Company

BAD RABBIT

If you access this page your computer has been encrypted.

Time left before the
price goes up

41:18:14

Price for decryption:

 - 0.05

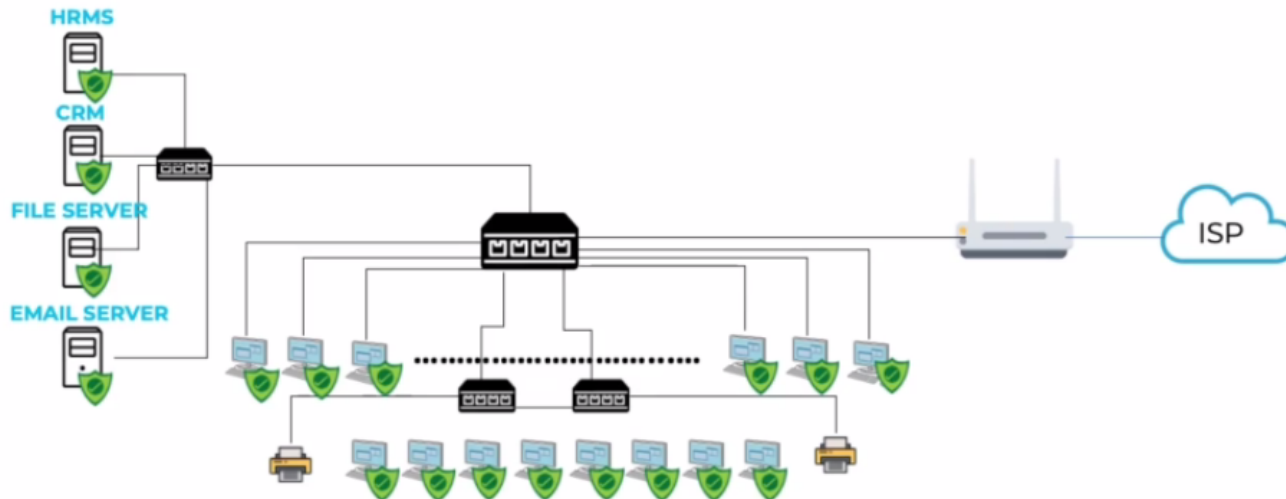
Enter your personal key or your bitcoin address



Infrastructure Team
System Maintenance
Network Administrator
System Engineer (IT Guy)
Network Engineer

How IT Evolves in a Company

Install Antivirus



IT Infrastructure Team

Annual Maintenance
Contract

System Engineer (IT Guy)

Network Engineer

Endpoint Security
Engineer

How IT Evolves in a Company

200

350

Install Firewall



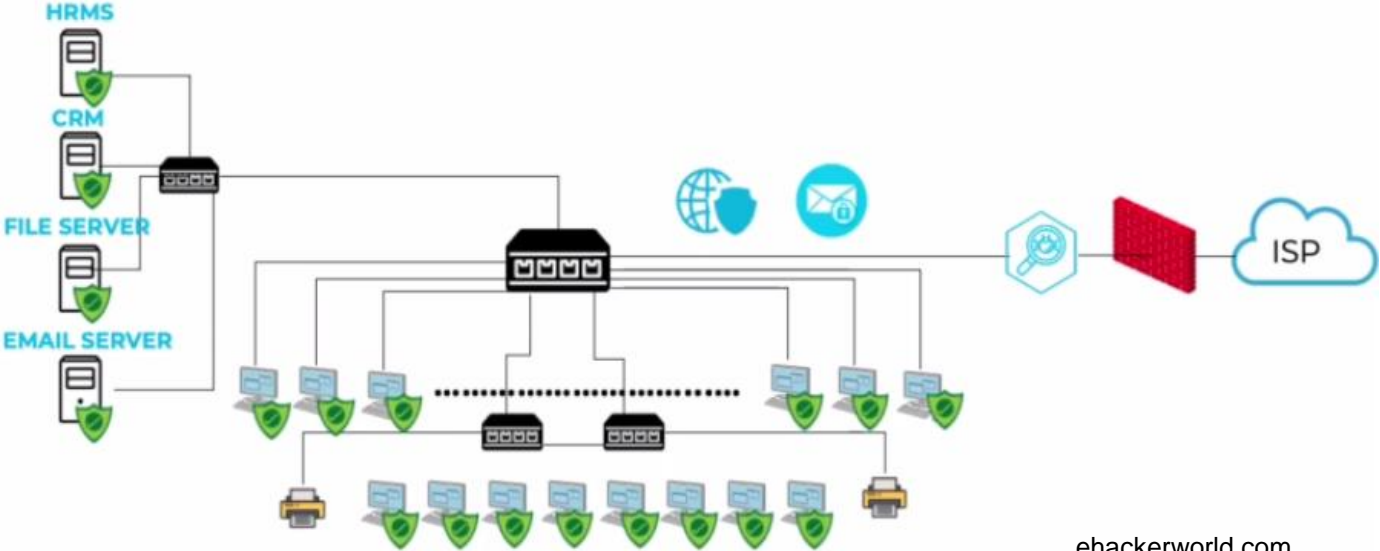
Install Intrusion Prevention System



Install Web Gateway



Install Email Gateway



IT Infrastructure Team

Annual Maintenance Contract

System Engineer (IT Guy)

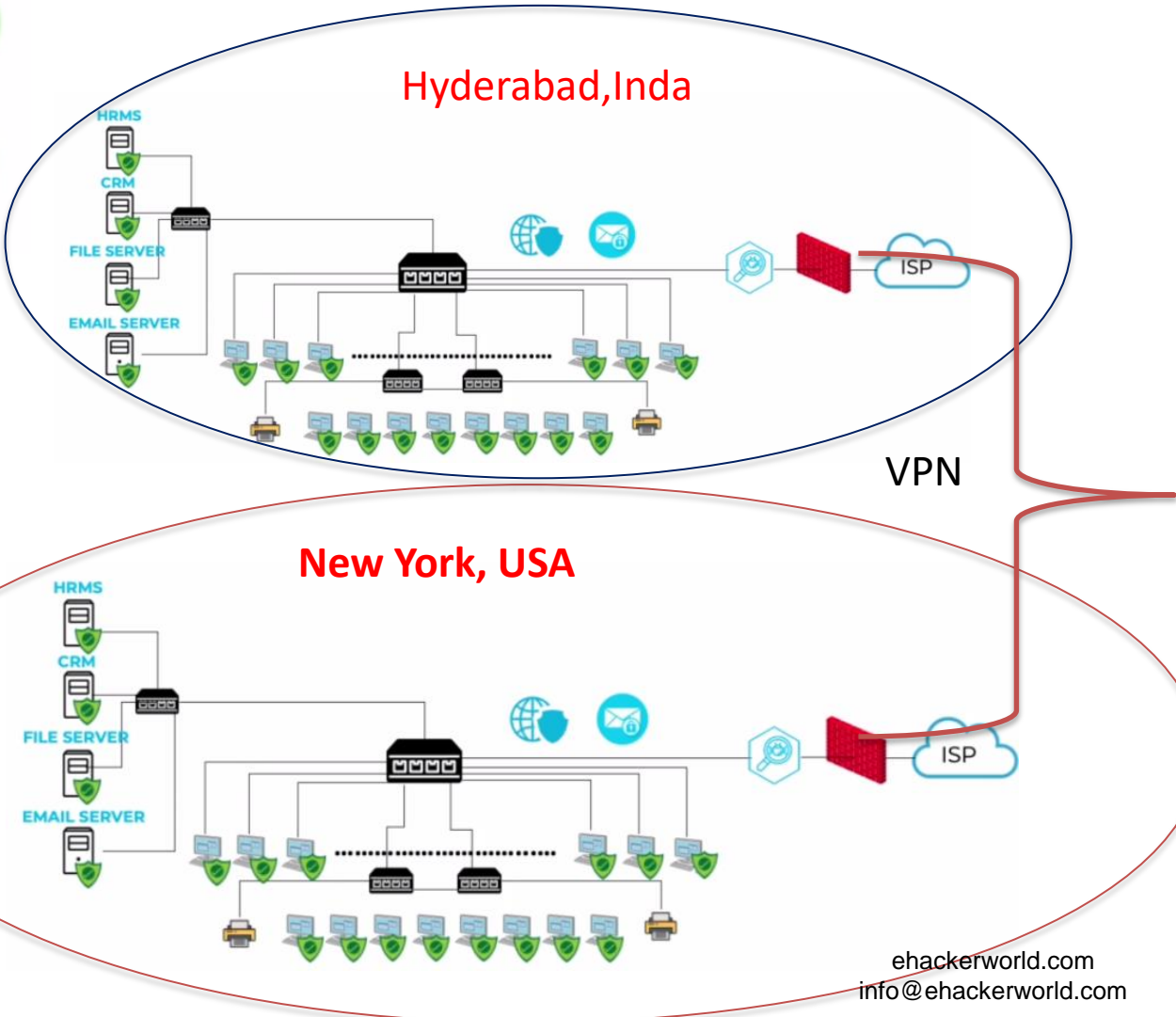
Network Engineer

Endpoint Security Engineer

Network Security Engineer

How IT Evolves in a Company

400
700



- IT Infrastructure Team
- Annual Maintenance Contract
- System Engineer (IT Guy)
- Network Engineer
- Endpoint Security Engineer
- Network Security Engineer

How IT Evolves in a Company

- Attacks continued to happen

Configuration Mistakes



Old (Vulnerable) Software



Human Error



Information Security Engineer Responsibilities

- Conduct Regular Audits
- Drafting Security Policies
- Conduct user Awareness Training

IT Infrastructure Team

Annual Maintenance Contract

System Engineer (IT Guy)

Network Engineer

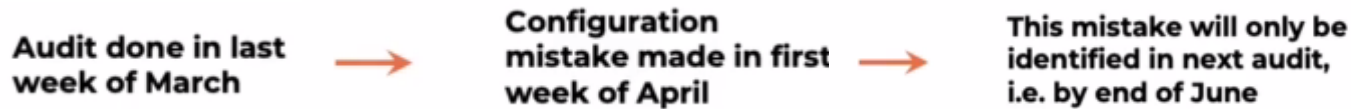
Endpoint Security Engineer

Network Security Engineer

Information Security Engineer

How IT Evolves in a Company

Audits were not enough



we leave this weak configuration as it is for more than 2 months

Continuous monitoring was necessary

IT Infrastructure Team

Annual
Maintenance
Contract

System Engineer (IT Guy)

Network Engineer

Endpoint Security
Engineer

Network Security
Engineer

Information Security
Engineer

Security operation
Team

Thanks