



CYBERSECURITY IN THE ENERGY SECTOR

23 del Congreso del Mercado de Energía Mayorista (MEM) | Hotel Hilton | Cartagena, Colombia | November 1 2017

A close-up photograph of a cracked egg. The egg is white and has a jagged hole in its shell. Bright yellow yolk is spilling out from the hole and pooling on a dark, reflective surface below. The background is dark and out of focus.

FRAGILE FOUNDATIONS

PING, LATENCY, REPLAY, BRICKING, & DEAD ENGINEERS



REALITY CHECK

AIR GAPS, OBSCURITY, REDUNDANCY, AND OTHER MYTHS



EMBEDDED IN EMBEDDED

BORROWING OUR WAY TO UNKNOWN VULNERABILITY

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NOWHERE FOR DATA TO HIDE

SMART EVERYTHING WILL BE CONNECTED TO SMART EVERYTHING



UNSTOPPABLE INNOVATION

TODAY'S GREAT NEW TECH IS TOMORROW'S SECURITY LIABILITY



DISAPPEARING ACT

OLD TECHNOLOGY WILL REMAIN, NEW TECHNOLOGY WILL VANISH



NO BOUNDARY

EDGE AND CLOUD ARE ALREADY HAPPENING



DIGITAL SPACE RACE

THE LOGICAL DISTANCE BETWEEN “CLICK” AND “MOVE”



TECHNOLOGY DEPENDENCE

LOSING TOUCH WITH THE MANUAL CRAFT



GHOST IN THE MACHINE

BIRDS, FISH, WILDEBEEST AND MODERN INFRASTRUCTURE

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HARD SECURITY TRUTH

EVERYTHING AND EVERYONE CAN BE (PROBABLY HAS BEEN) HACKED



HIGH VALUE/IMPACT TARGET

HISTORY, INTERDEPENDENCY AND COMPLACENCY



THAT DAY YOU BECAME A BANK

DATA IS YOUR BUSINESS



DATA WANTS TO BE FREE

MORE DATA MEANS MORE POTENTIAL FOR LEAKS



ADAPTIVE ADVERSARIES

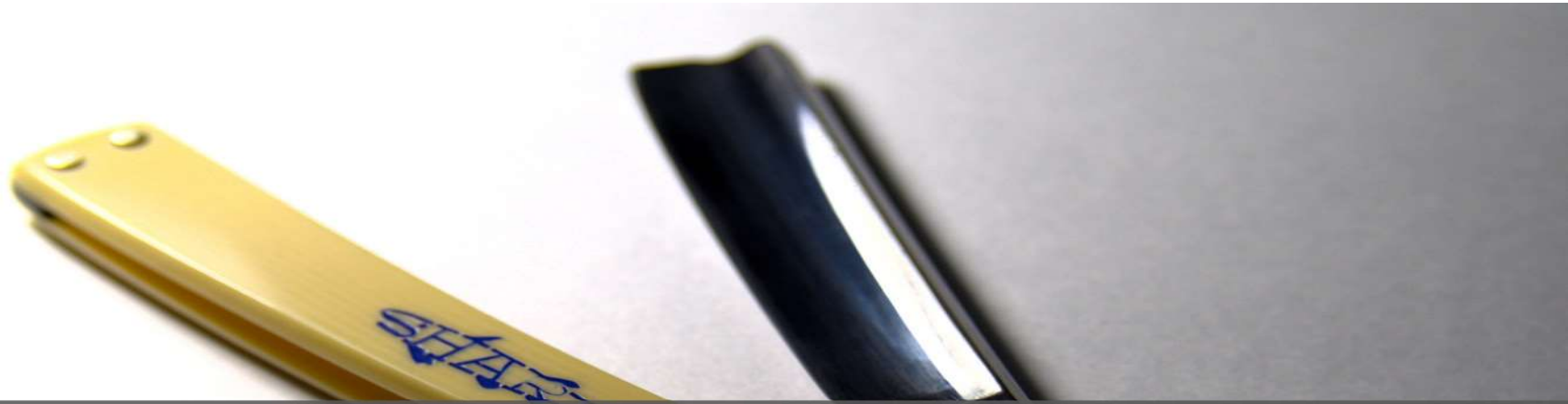
THEY HAVE THREE THINGS YOU DO NOT: PEOPLE, MONEY AND TIME





NOT ADVANCED

SPREADSHEETS, PDFs AND NAKED CELEBRITIES



ACCIDENTS HAPPEN

SQUIRRELS, CONSTRUCTION EQUIPMENT AND EMPLOYEES



HELP IS UNCERTAIN

WORKFORCE, INCIDENT RESPONSE AND CYBERINSURANCE



HACKERS ARE FASTER THAN LAWS

YOU CAN PRESCRIBE ACTION, BUT YOU CAN NOT PRESCRIBE ATTITUDE



MONEY TALKS

PROCUREMENT LANGUAGE, CONTRACTS AND USER GROUPS

CYBERscape: The Cybersecurity Landscape



SECURITY DOES NOT SELL

UNTIL IT DOES



THE AWARE PERSON SYSTEM

BEST DEFENSE AGAINST A HUMAN IS A HUMAN



INFORMATION SHARING

SECURITY MATURITY, COMPANY CULTURE AND THREAT INTELLIGENCE

A row of several beer glasses filled with golden beer and topped with white foam, lined up on a wooden bar counter. The background is a blurred outdoor setting with a building.

BEER ISAC/CERT

RELATIONSHIPS + TRUST = SHARING



TIME, TOOLS AND MATERIALS

RESILIENCE = BALANCED PREVENTION, DETECTION AND RESPONSE

A black and white photograph of several tall stacks of coins, likely quarters, arranged in a row. The coins are stacked on a light-colored surface, and the background is slightly blurred, emphasizing the stacks in the foreground. The lighting creates highlights on the edges of the coins, giving them a three-dimensional appearance.

GIVE SECURITY A NEW NAME

RESILIENCE, RISK REDUCTION, INCREASED UPTIME, DECREASED
FINANCIAL LOSSES, YOUR COMPANY/JOB IS DEPENDENT ON IT

PROVEN RESILIENCE

1. REDUCE ATTACK SURFACE AREA
2. BUILD A DEFENDABLE ENVIRONMENT
3. ELIMINATE FRAGILE SYSTEMS
4. MANAGE AUTHENTICATION
5. SECURE REMOTE ACCESS
6. APPLICATION WHITELISTING
7. PATCH MANAGEMENT/CONFIGURATION MANAGEMENT
8. MONITOR EVERYTHING, ESPECIALLY THE NETWORK



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