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## **The TechSlayer Chronicles**

Rise of the Immutable Hero

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## ActualTech Media

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## About ActualTech Media

ActualTech Media is a B2B tech marketing company that connects enterprise IT vendors with IT buyers through innovative lead generation programs and compelling custom content services. ActualTech Media's team speaks to the enterprise IT audience because we've been the enterprise IT audience. Our leadership team is stacked with former CIOs, IT Managers, architects, subject matter experts and marketing professionals who help our clients spend less time explaining what their technology does and more time creating strategies that drive results.

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WORLDGLOBALCORP (WGC) IS A SUCCESSFUL AND VIBRANT MODERN BUSINESS EXPERIENCING RAPID GROWTH



LIKE SO MANY, THE COMPANY'S TECHNOLOGY SYSTEMS HAVE NOT ALWAYS KEPT PACE WITH THAT GROWTH AND SOLUTION ISLANDS HAVE EMERGED, CREATING CRACKS IN THE COMPANY'S SECURITY DEFENSES.

THROUGH THESE CRACKS, CYBERRAZER AND HIS MINIONS ATTACK THESE IT SYSTEMS, SEEKING TO INSERT WEDGES THAT CAN BE FURTHER EXPLOITED LATER ON.

LITTLE DOES **WGC** KNOW THAT, EVEN IN ITS SERENE AND IDYLLIC HQ ENVIRONMENT, THE COMPANY IS SURROUNDED BY BAD ACTORS SEEKING TO EXPLOIT EVERY VULNERABILITY POSSIBLE UNTIL THEY ESTABLISH A PERMANENT FOOTHOLD FROM WHICH TO UNLEASH A DREADED RANSOMWARE PAYLOAD THAT COULD CRIPPLE THE COMPANY.





TWO WEEKS LATER ...

THIS AUTOMATED SECURITY AWARENESS TOOL WILL GIVE USERS THE KNOWLEDGE THEY NEED TO FEND OFF PHISHING ATTEMPTS. IT WORKS FOR EVERYONE HERE, AS WELL AS OUR WORK-FROM-HOME TEAM MEMBERS.

THAT'LL DO

THE TRICK!

ARE YOU SOME KIND OF SECURITY SUPERHERO OR SOMETHING? IT WASN'T JUST THE DESKTOP ENVIRONMENT, THOUGH. ALL ACROSS WGC, INFRASTRUCTURE SILOS CREATED NEW RISK FOR THE COMPANY.

WOW! THAT

WAS QUICK!

... AND THANKS TO OUR NEW AUTOMATED SCANNING TOOLS, WE'RE NO LONGER TWO YEARS BEHIND IN APPLYING CRITICAL FIRMWARE UPDATES TO OUR SERVERS.

> THERE ARE SO MANY OPPORTUNITIES FOR INFILTRATION. CONSTANT VIGILANCE INTERRUPTED BY JUST ONE MISSTEP CAN HAVE TRAGIC CONSEQUENCES.

NO KIDDING! JUST THIS MORNING, A BRAND NEW ZERO DAY VULNERABILITY WAS DISCOVERED ON THE OLD FIRMWARE VERSION THAT WAS IN ALL OF OUR SERVERS.

I CAN'T

BELIEVE WE'D NEVER

DONE FIRMWARE

UPDATES!

DANSA! HAPPY YOU'RE HERE. FOR THE LAST SIX HOURS, WE'VE BEEN STUDYING THE THROUGHPUT CHARACTERISTICS AND ARCHITECTURE SCHEMATICS FOR EVERY NAS SYSTEM ON THE MARKET AND WE'RE NO CLOSER TO A DECISION THAN WE WERE

WHEN WE STARTED.

I NEED TO GO

STORAGE TEAM.

THEY'RE REALLY

MOVE FORWARD WITH A

NAS CONSOLIDATION

PROJECT.

MEET WITH THE STRUGGLING WITH HOW WE

THAT ONE

IS EASY!

WE HAVE

ISLANDS OF NAS

EVERYWHERE. IT'S EXPENSIVE.

IT'S COMPLEX. SIMPLY PUT, IT'S INEFFICIENT.

WELL, WE NEED TO MAKE THIS WHOLE MESS SIMPLER. WE HAVE NAS SYSTEMS FROM EIGHT VENDORS ALL OVER THE PLACE RIGHT NOW.

HI NOAH! SURE, THOSE ARE IMPORTANT. BUT LET'S CUT TO THE CHASE, WHAT DO YOU WANT TO ACTUALLY GET DONE?

YES IT IS

FROM A SECURITY STANDPOINT, IT'S A TICKING TIMEBOMB.





ZERO TRUST PRINCIPLES MEAN THAT WE HAVE TO TAKE ACTIVE STEPS TO MAKE THESE SYSTEMS ACCESSIBLE.

WE APPROACH IT USING A PRINCIPLES OF LEAST PRIVILEGE STANCE SO THAT SYSTEMS HAVE ONLY WHAT THEY NEED TO OPERATE... AND NO MORE. YOU KNOW, AS WE CONSIDER NEW OPTIONS, WE REALLY NEED TO BE THINKING ABOUT HOW WE CAN BE MORE PROACTIVE IN IDENTIFYING POTENTIAL ATTACKS THAT WE MIGHT NOT EVEN KNOW ARE TAKING PLACE.

> EVEN BETTER, WE GET TO FIX THE BACKUP WINDOW PROBLEM WE'VE BEEN EXPERIENCING WITH OUR OLD SOLUTION. RUBRIK FULLY SUPPORTS NETAPP SNAPDIFF 3.0, WHICH TAKES BACKUPS BASED ON FULL-VOLUME DELTA SNAPSHOTS.

THAT WILL MAKE BACKUPS FASTER BY ORDERS OF MAGNITUDE SINCE SNAPDIFF'S FILE CHANGE API COMPARES JUST THE PREVIOUS BACKUP SNAPSHOT WITH THE CURRENT ONE AND ONLY BACKS UP WHAT'S CHANGED.

SHOULD I GET A COSTUME?

ABSOLUTELY, DANSA! WE NEED A TOOL THAT HELPS US IDENTIFY PATTERNS THAT COULD INDICATE THAT A COMPROMISE HAS ALREADY TAKEN PLACE AND THAT CAN IDENTIFY OTHER POTENTIALLY MALICIOUS ACTIVITY.

> BUT THERE'S NO TOOL ON THE MARKET THAT CAN GUARANTEE THAT WE'LL NEVER FALL VICTIM TO A RANSOMWARE ATTACK.

HAI ALLY SO MANY LEGACY BACKUP TOOLS ARE SINGLE-MINDED AUTOMATONS THAT JUST MOVE DATA FROM PRODUCTION TO BACKUP WITHOUT REALLY CONSIDERING MUCH BEYOND THAT.

AND, IF THEY

DID, WELL ... I

DON'T THINK I'D

BELIEVE THEM.

OUR NEW TOOL NEEDS TO BE AN ACTIVE PARTICIPANT IN OUR SECURITY PROGRAM, HELPING US FLAG SUSPICIOUS ACTIVITY SO THAT WE CAN AVOID ATTACKS.

YOU'RE

ABSOLUTELY

RIGHT, SAM. NO

THAT IRONCLAD

GUARANTEE.

OOL CAN EVER GIVE

WITH RUBRIK AND NETAPP SUPPORTING US, WE'LL GET BEST-IN-CLASS STORAGE AND DATA PROTECTION.





DO EITHER OF YOU KNOW WHAT WE SHOULD SELECT TO REPLACE OUR OLD SYSTEMS?

WE'LL GET

AIR-GAPPED AND

IMMUTABLE BACKUPS

THAT CAN'T BE IMPACTED

IF WGC IS EVER HIT

BY RANSOMWARE.

EXACTLY! IF OUR DEFENSES FAIL AND WE'RE HIT WITH RANSOMWARE, HOW DO WE RECOVER?

> WE DO! WE'RE GOING TO DEPLOY RUBRIK AND NETAPP ONTAP AND STORAGEGRID!

IN OTHER WORDS, WHAT HAPPENS WHEN THE WORST HAPPENS?

THAT'S WHY IT'S CRITICAL THAT WE THINK ABOUT ALL OF THIS IN LAYERS AND IDENTIFY WHAT STEPS WE WOULD TAKE IN A WORST-CASE SCENARIO WHILE WE'RE DESIGNING THE SOLUTION.









TOP 5 TAKEAWAYS

1. DATA IS THE LIFEBLOOD OF EVERY MODERN ORGANIZATION.

2. IT'S NOT A QUESTION OF IF A RANSOMWARE ATTACK WILL HAPPEN, BUT WHEN. THE ONLY WAY THAT ORGANIZATIONS CAN SURVIVE ONE AND NOT PAY THE RANSOM IS TO HAVE CUTTING-EDGE SECURITY AT THE POINT OF DATA AND AN IMPENETRABLE LAST LINE OF DEFENSE BACKUP.

3. EVERY ORGANIZATION'S LAST LINE OF DEFENSE NEEDS TO BE BUILT ON A ZERO TRUST, IMMUTABLE ARCHITECTURE WITH DEFAULT SETTINGS AND FEATURES TO GUARANTEE THE AVAILABILITY OF DATA EVEN IN A FULLY COMPROMISED ENVIRONMENT.

4. STATE-OF-THE-ART DATA PROTECTION IS ABSOLUTELY CRITICAL, BUT IT DOES LITTLE GOOD WITHOUT STATE-OF-THE-ART RANSOMWARE REMEDIATION, THREAT HUNTING, SENSITIVE DATA DISCOVERY, AND ORCHESTRATED DATA RECOVERY BUILT IN.

5. CONSOLIDATION OF DISPARATE SILOED SYSTEMS FOR SUCH THINGS AS NAS AND DATA PROTECTION INTO INDUSTRY-LEADING, INTEGRATED SOLUTIONS PROVIDED BY JOINT PARTNERS WILL REDUCE RISK AND LOWER TCO. RUBRIK AND NETAPP TOGETHER CHECK ALL THE BOXES NEEDED FOR DATA MANAGEMENT, PROTECTION, VISIBILITY, AND RECOVERY.

