

**IE11 Support is Ending Soon!**

Replace your Legacy 3270  
Emulator with a Modern  
Solution

VWA: Secure 3270 Terminal Emulation



## Topics and Presenters

- ▶ Introduction and IE11 Support Ending Details
  - Lori Kettles, Sales Manager at SDS
  
- ▶ High-Level Overview of Vritel Web Access Architecture
  - Guillaume Fournier, Consultant at SysperTec
  
- ▶ Demonstration of Vritel's Application Tier Menu
  - Domenic Cifani, Systems Engineer at SysperTec



## Quality Mainframe Software since 1982

- ▶ Expert development & technical support teams based in Minneapolis, MN.
- ▶ 25+ products for z/OS, z/VM, z/VSE, and distributed platforms.
- ▶ Hundreds of organizations worldwide rely on SDS solutions.
- ▶ Focus on mainframe security and compliance.
- ▶ Cost savings and legacy tool replacements: **DO MORE WITH LESS!**
- ▶ Long-standing global partnerships complement SDS software.
- ▶ Recognized for providing highest quality technical support.





## End of IE11 Support: June 15, 2022

- ▶ Security, Security, Security!
- ▶ Continuing to run IE11 without security updates presents a major security risk





## Cost of a Data Breach Report 2021 - Ponemon

- ▶ Average cost of a data breach: \$4.24 million
  - 10% increase in average cost of a breach from 2020-21
- ▶ \$1.07 million – additional cost where remote work was factor in causing breach
- ▶ Average time it takes to identify and contain a data breach is 287 days!

[“2021 Cost of Data Breach Study: Global Overview”](#) – Ponemon Institute, IBM Security, July 2021



## End of IE11 Support: Additional Considerations

- ▶ You'll miss non-security updates, resulting in potential conflicts
- ▶ Will your customers be affected?
- ▶ Requiring users to continue using a less-than-optimal browser will negatively impact their productivity



## End of IE11 Support: Additional Considerations

- ▶ Modern browsers no longer support plugins
  - Edge, Chrome, Safari, Firefox
- ▶ Only IE11 still supports plugins
- ▶ Need to replace plugin-dependent solutions
  - Older versions of Reflection for the Web, HOD, etc.
  - Some web modernization and integration solutions
- ▶ Switch to thin-client, browser-based 3270 TE



## Modern, Thin-Client Architecture & Familiar Look

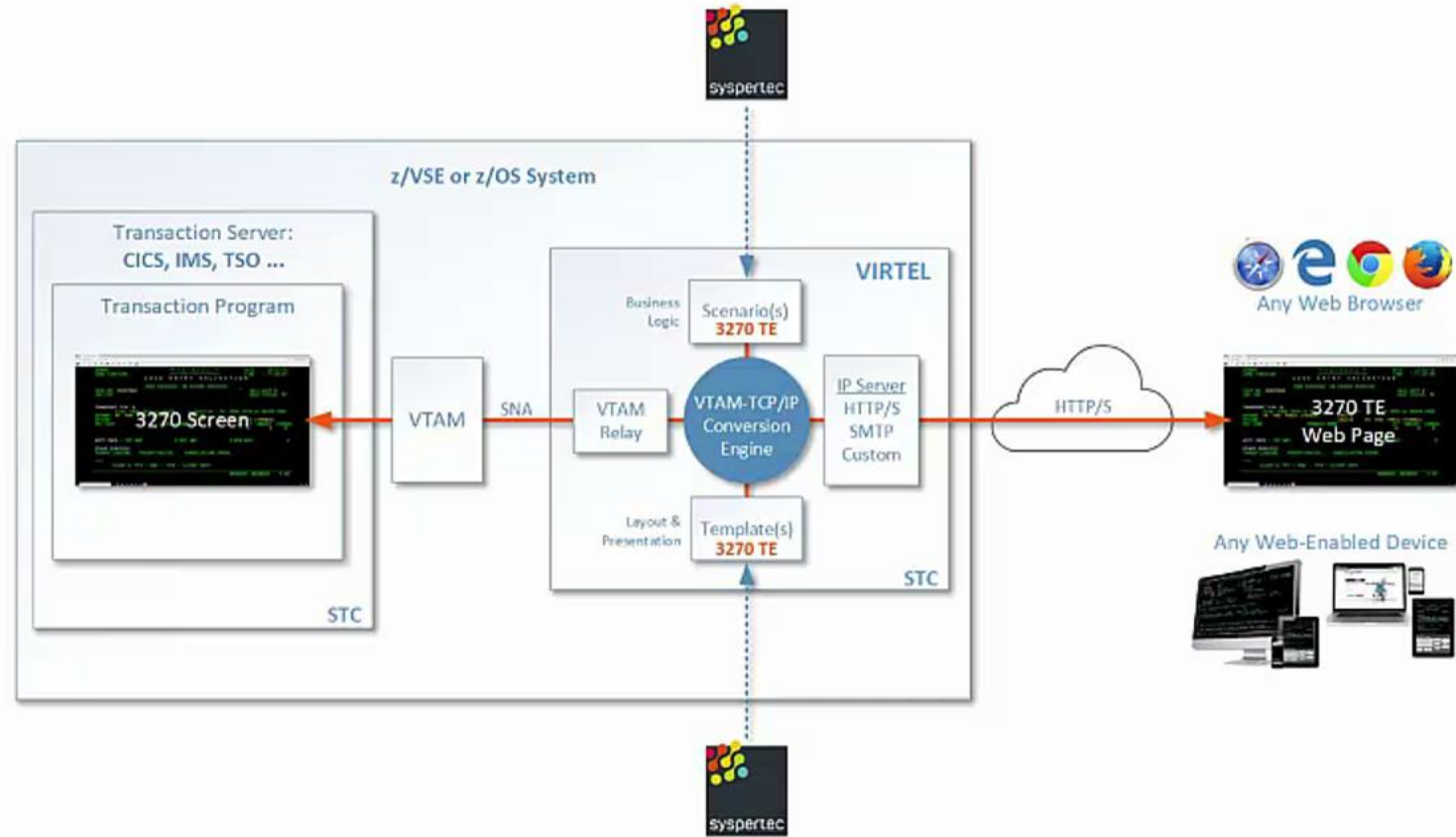
- ▶ Instant deployment
- ▶ Highly customizable
- ▶ Familiar 3270 screens
- ▶ Application Tier Menu



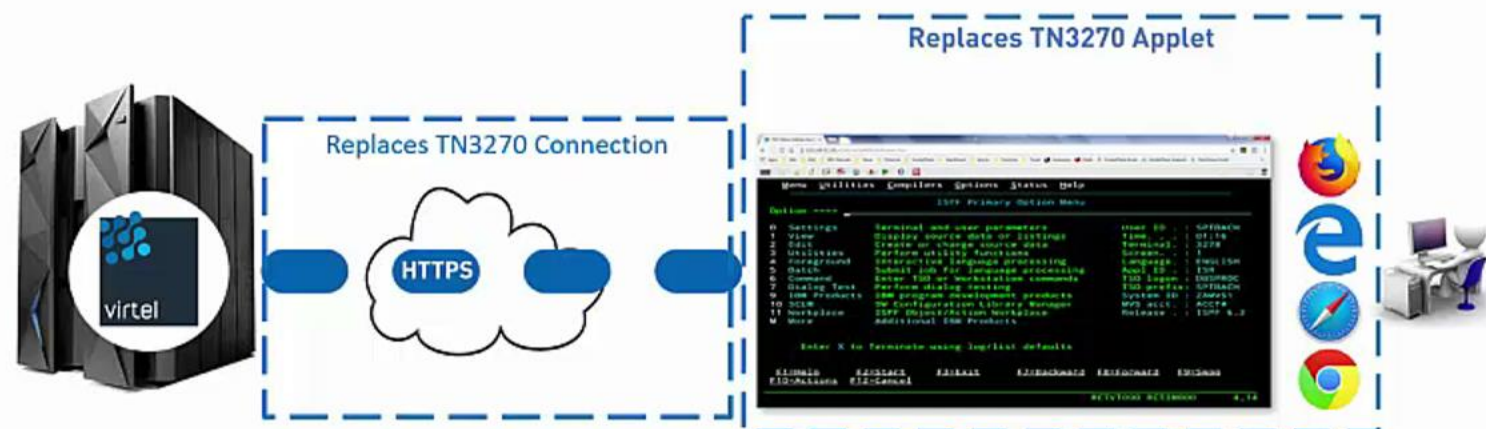
- 
- Delta Air Lines
- Flight 1234
- Aircraft: N12345
- Departure: 10:00 AM
- Arrival: 11:00 AM
- Status: ON TIME
- Flight Path: Atlanta to New York
- Airline: Delta Air Lines

- ❖ Replaces legacy TN3270 emulators
  - PCOMM, HOD, Reflection, BlueZone, EXTRA! ...

# How Does VWA Work?



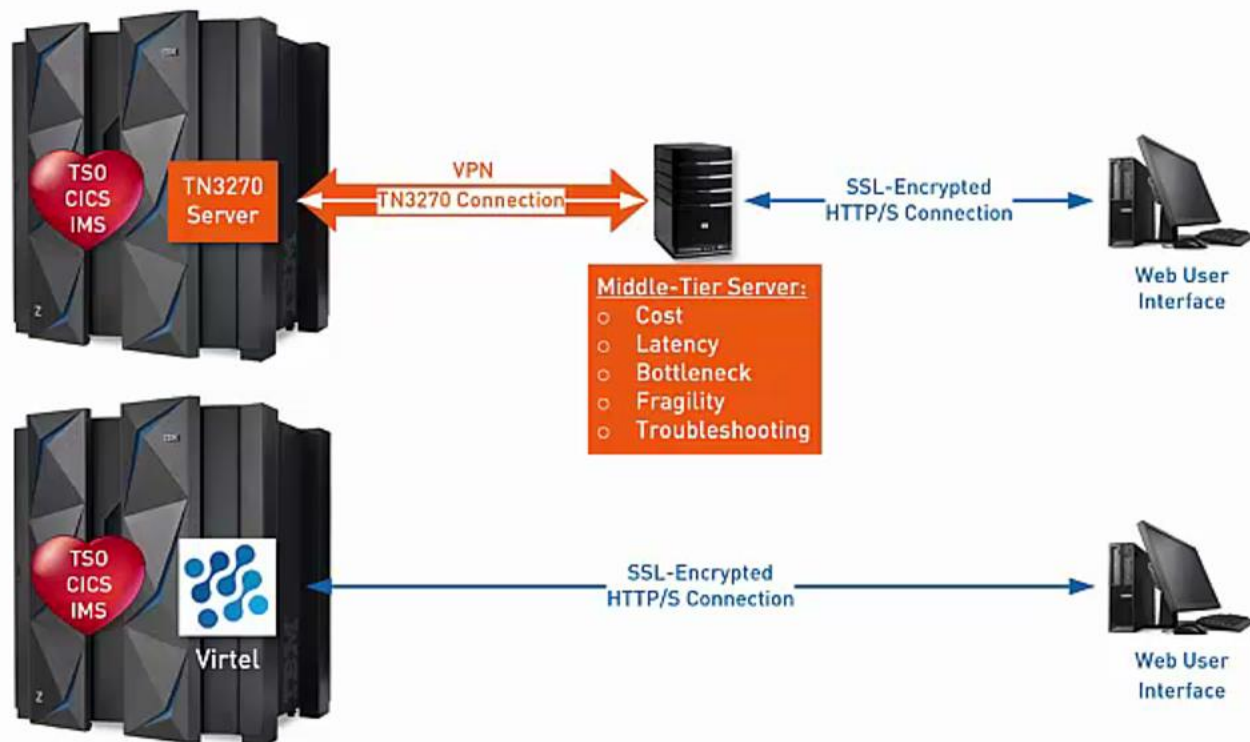
# 3270 TE Without TN3270 Technology



## ❖ Replaces:

- TN3270 connections with SSL-encrypted HTTP connections
- TN3270 Java applets/plugins with HTML5/JS webpages

## 3270 TE Without Middle-Tier Server



*... when the majority of [us] switched to telework, we started taxing our VPN network. A lot of my colleagues prefer using Virtel as opposed to BlueZone since Virtel doesn't have to traverse across the network as much, so the response time is much faster.*

*(U.S. Federal Government)*



## Familiar 3270 TE User Experience

- ❖ Users retrieve instantly the 3270 screen look and behavior that they are familiar with
- ❖ Customizable toolbar for settings, macros ...



## Easy Implementation

- ❖ Easy to install-administer-support
  - Centralized
  - Nothing to install-admin-support on remote clients
  - No intermediate server
  - No VPN required (SSL-encrypted connections)
- ❖ Highly flexible configuration
- ❖ Instant deployment
  - Point browser to installation-defined URL/port
- ❖ Optional contracted implementation



# Works Instantly With Any Client Technology



PC Workstation



Mac Workstation



Laptop/Notebook



Tablet



Smartphone



# Thin Client = Secure Client

- ❖ Nothing but web browser on client device:



- ❖ Nothing to hack:
  - No Java/JVM
  - No applets
  - No browser plugins/extensions
  - No macros (macros stored on mainframe instead)



# Secure Connections

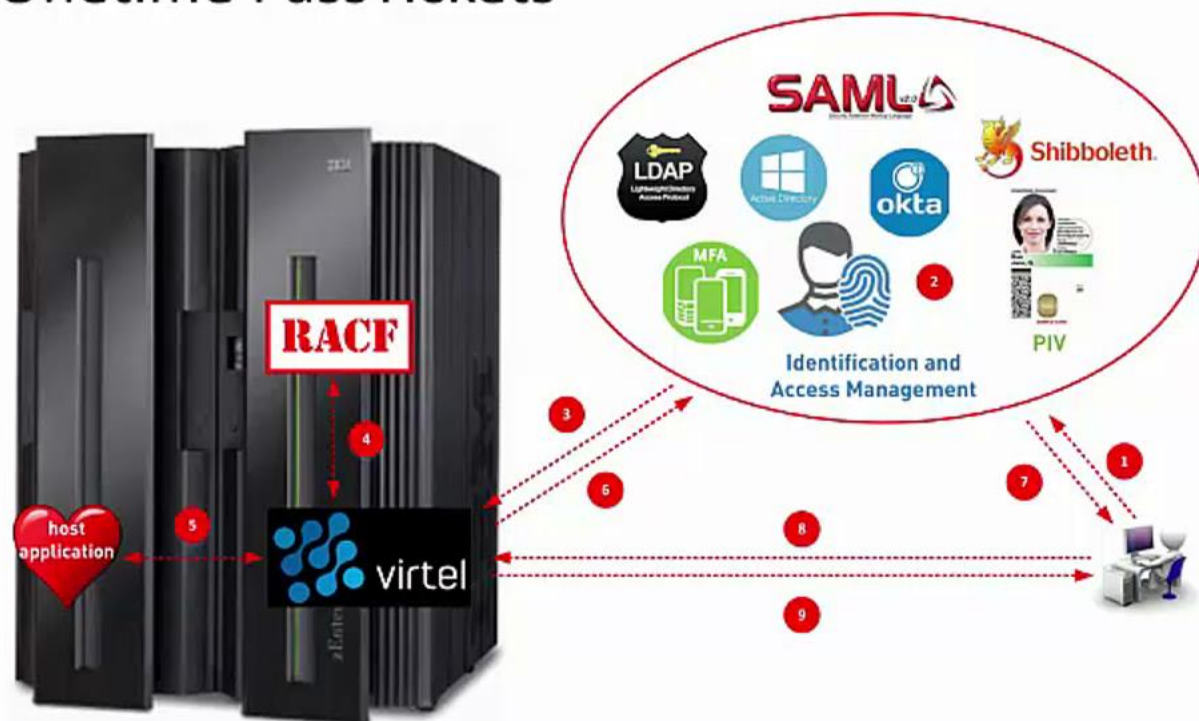
- ❖ SSL-encrypted HTTPS connections
  - Encryption by IBM AT-TLS or ICSF
  - FIPS 140.2 + TLS 1.2/1.3 compliant
- ❖ Unique session/exchange identifiers
- ❖ Concurrent IPv4 + IPv6 support
- ❖ VPN = optional



# Seamless IAM Integration

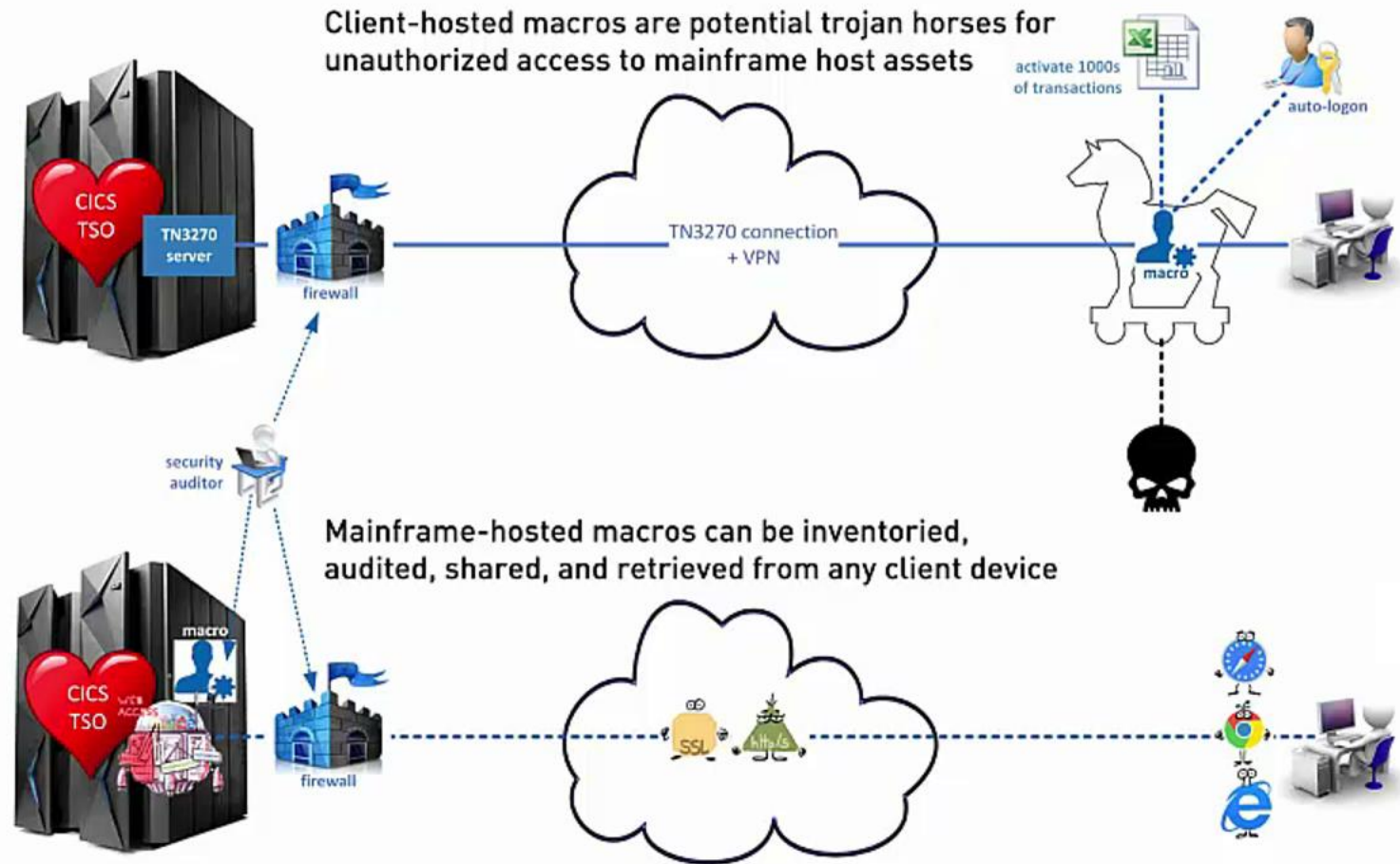
- ❖ No Xfer of credentials over Internet after
- ❖ Onetime PassTickets

1



IAM will eventually require access from web browser and deprecate access from client-running code

# Mainframe-Hosted Macros



# Session Manager Replacement

❖ Replaces TPX, SuperSession, Tubes, etc.

virtel			Virtel Demo Application Tier Menu Session Manager	VIRTEL version 4.60	VIRTEL6A S0W1
			SYSPERTEC Virtel V4.60 Application Menu	Line C-HTTP	Entry point CLIWHOST
> CICS Production Regions					
●	CICSPTCK	CICSTS54	Logon to CICS with RACF Passticket		
●	CICSPAUT	CICSTS54	Logon to CICS (Auto signon to CICS)		
> CICS Development Regions					
●	CICSD	CICSTS54	Logon to CICS Development Region		
> CICS Test Regions					
●	CICST	CICSTS54	Logon to CICS Test Region		
> TSO Production Systems					
●	TSOP5	TSO	Logon to TSO (Model 5)		
●	TSOPAUTO	TSO	Logon to TSO (Auto signon to TSO)		
●	TSOP4	TSO	Logon to TSO with SEC=4		
> TSO Development Systems					
●	TSODOM	TSO	Logon to TSO (model 2) test		
●	TSODCST0	TSO	Logon to TSO (Add ICON URL on the Toolbar)		
> VTAM USSTAB Sessions					
●	VTAM	VIR0021U	Logon to VTAM application		
●	VTAMUSS	VIR0021W	Logon using VTAM USSTAB		
> Other Sessions					
●	Netview	NETVS	Logon to Netview		
●	NetvPASS	NETVS	Logon to Netview with a RACF passticket		
●	MULTI	MULTI	Logon to Multiterm Session Manager		
●	TSO	TSO	Logon to TSO (model 2)		



## Cost Savings Opportunities

- ▶ Competitive SLA pricing
- ▶ Reduced implementation (SE) costs
- ▶ No intermediate servers
- ▶ No VPN requirement
- ▶ Session Manager replacement
- ▶ Premium Support offerings

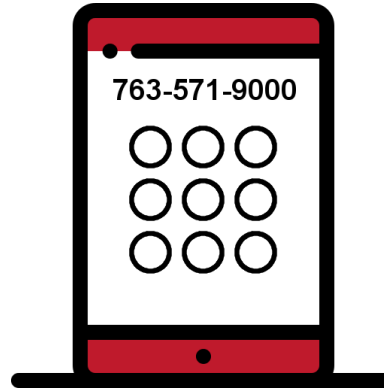




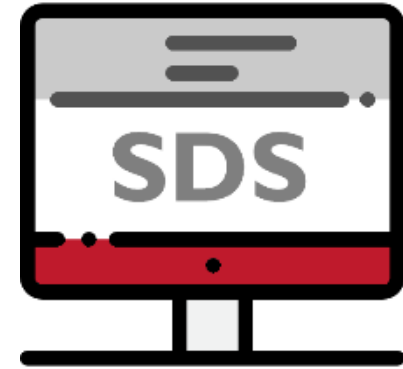
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