



# Working from Home with Virtel's Browser-Based 3270 Terminal Emulation



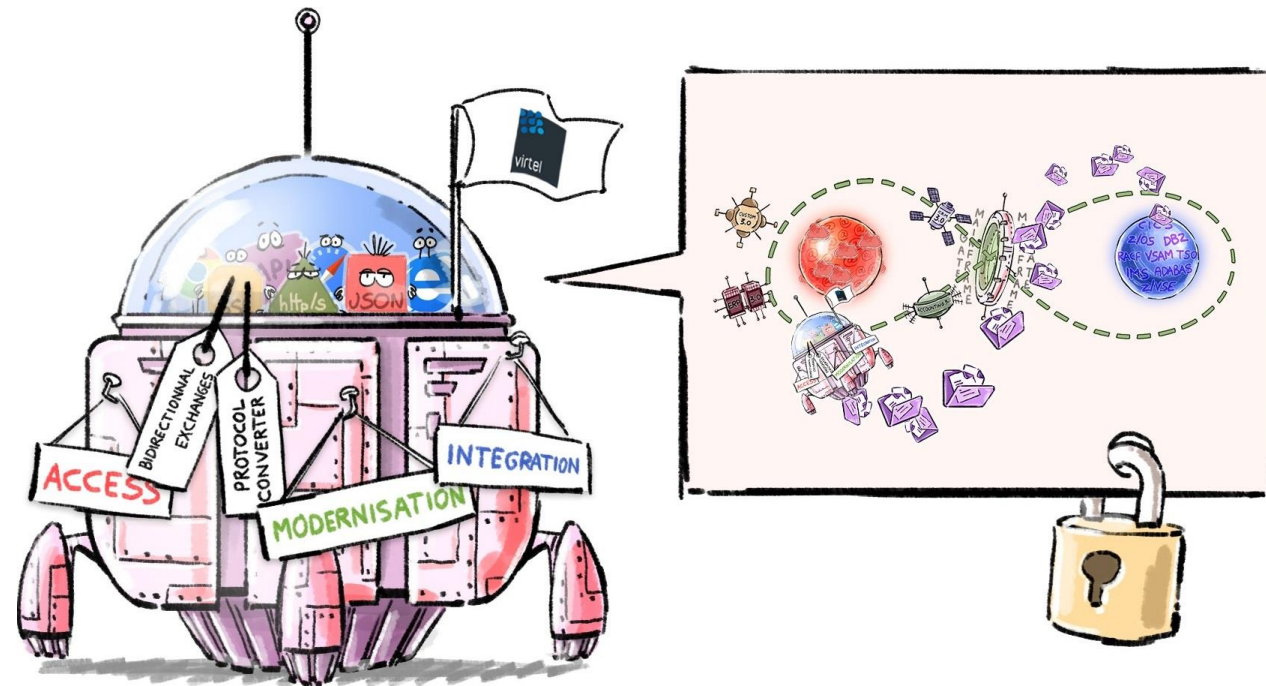
## Shelter-in-place Plan

- ▶ Everyone works from home
- ▶ Hackers have increased their activity
- ▶ Maintaining security during this time is very important
- ▶ Secure 3270 TE access from any device
  - PC, Mac, tablet ...

## Our Offer

- ▶ Virtel Web Access = browser-based 3270 TE
- ▶ Unlimited number of users
- ▶ Limited to first 50 customers
  
- ▶ Must accept offer by April 30, 2020
- ▶ Free to use until Sep 30, 2020
- ▶ Guaranteed price after Sep 30, 2020
- ▶ Cancel at no charge before Sep 30, 2020

# Virtel Web Suite



## Overview & Technology



Patrick Fournier  
Solution Architect

# Virtel Web Suite - Overview



Virtel Web Access ← Base Config.  
Thin-client (browser-based) 3270 TE



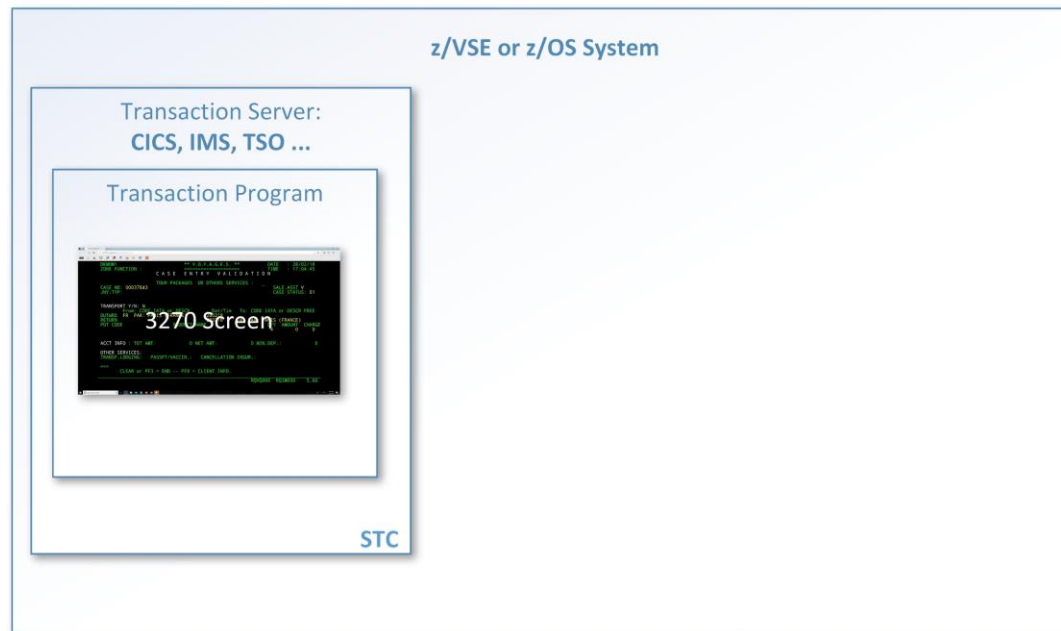
Virtel Web Modernization  
Replace 3270 screen UI with modern GUI



Virtel Web Integration  
Connect host & web apps via web services

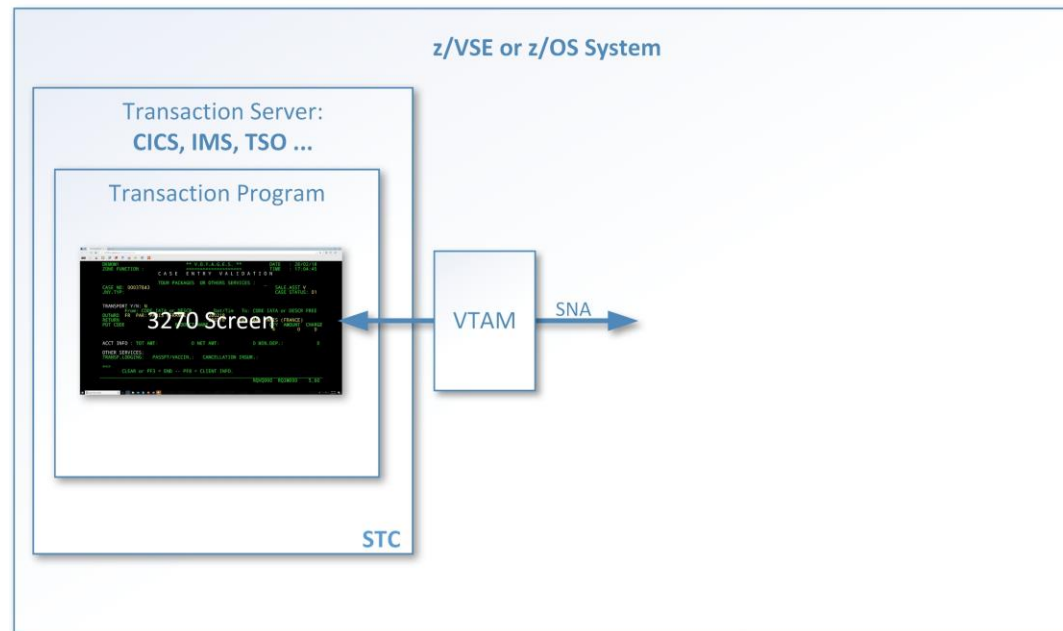
# How Does Virtel Work?

Digital Transformation  
**Virtel Web Suite**  
 Virtel Web Access  
 Virtel Web Modernization  
 Virtel Web Integration



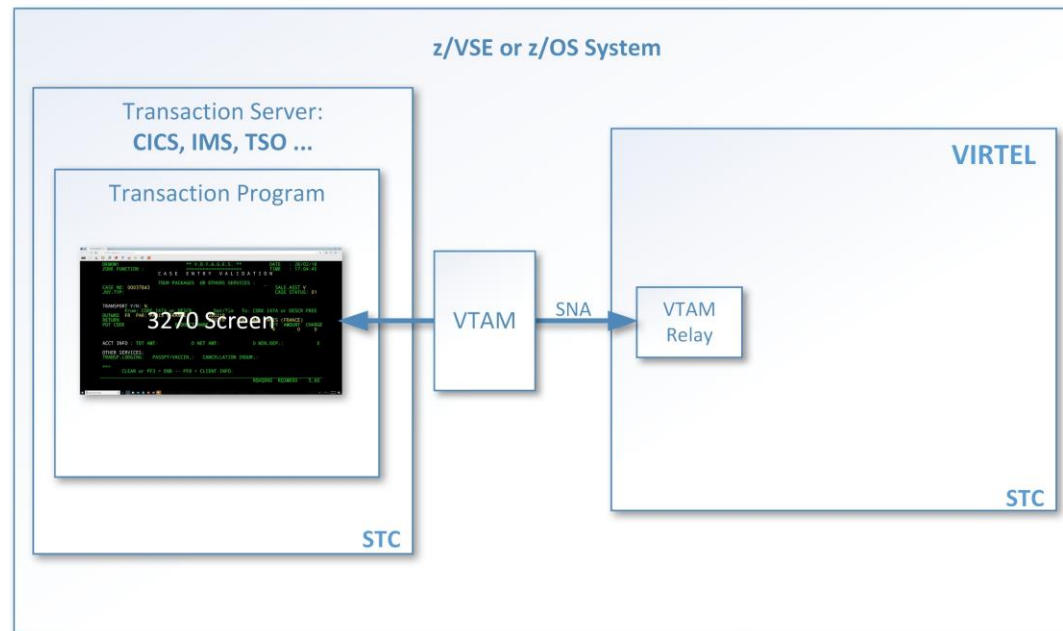
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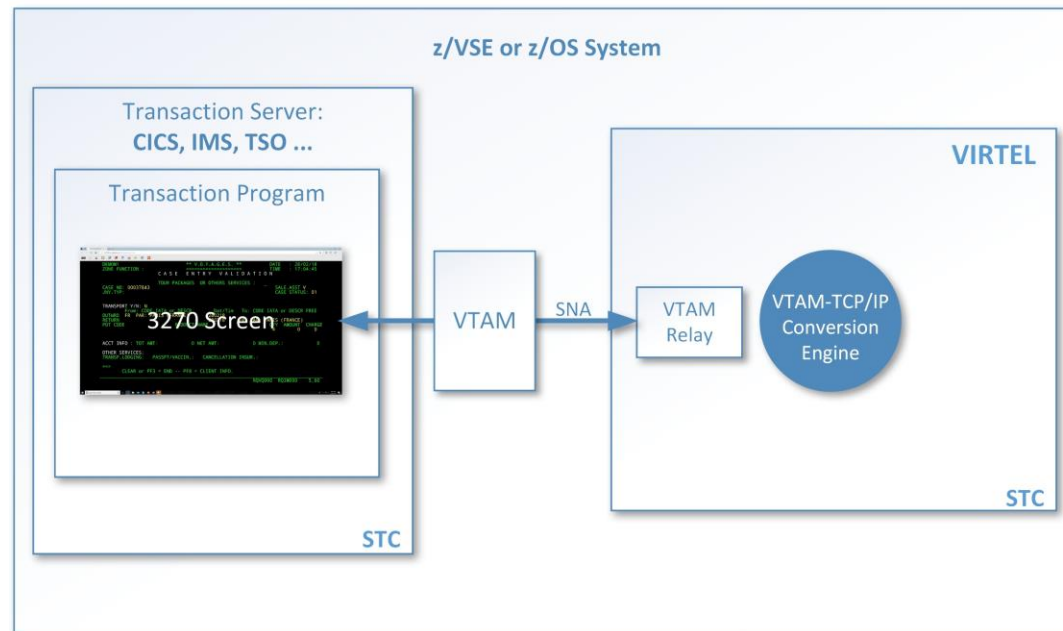
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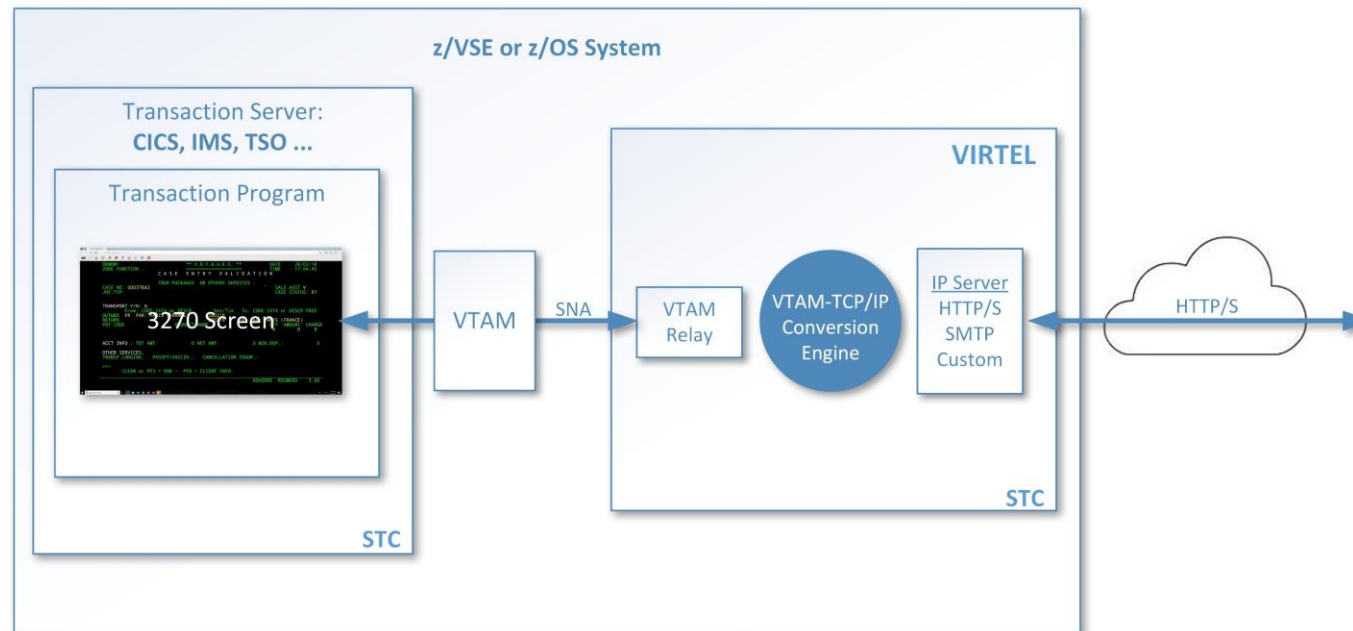
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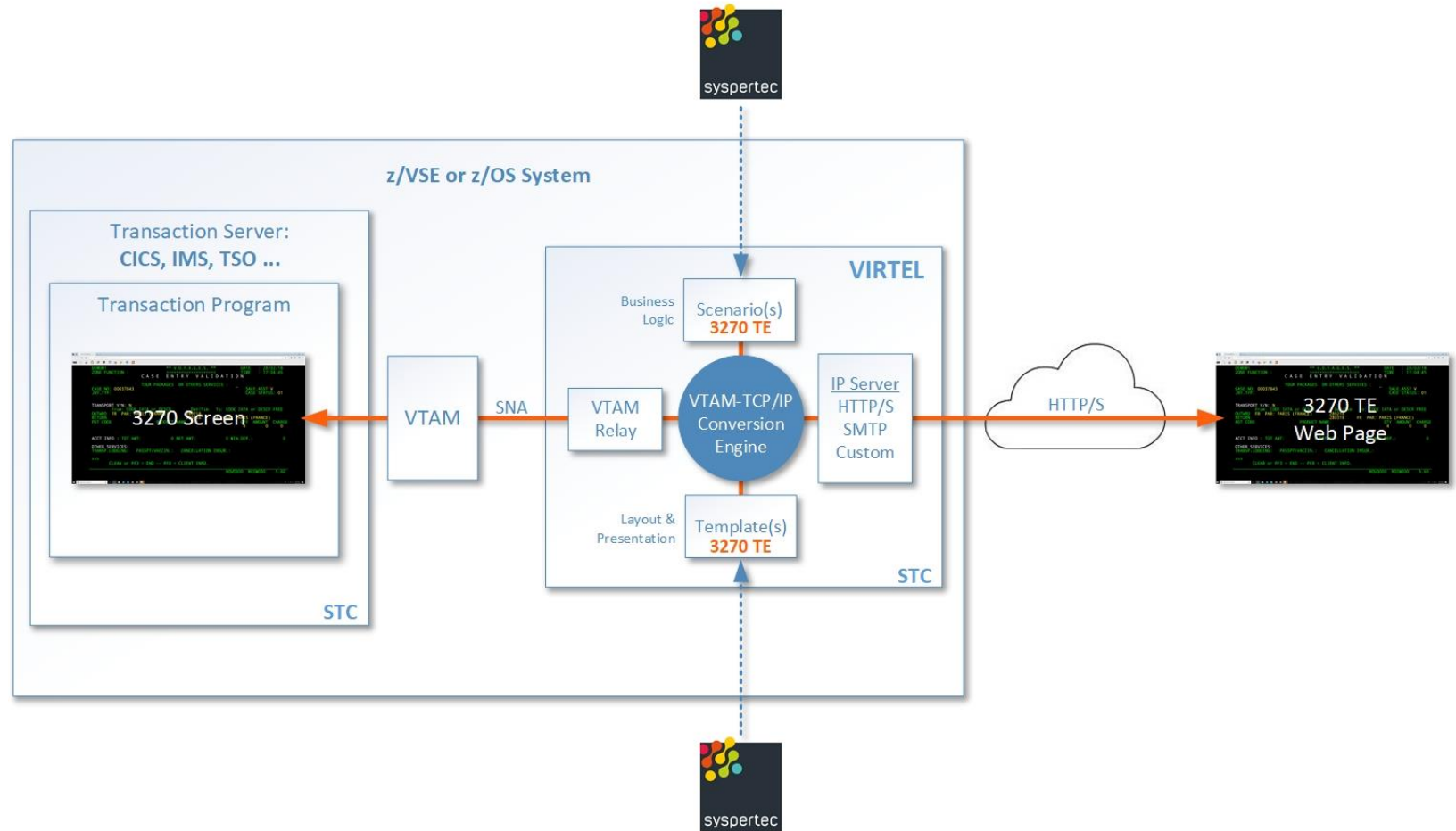
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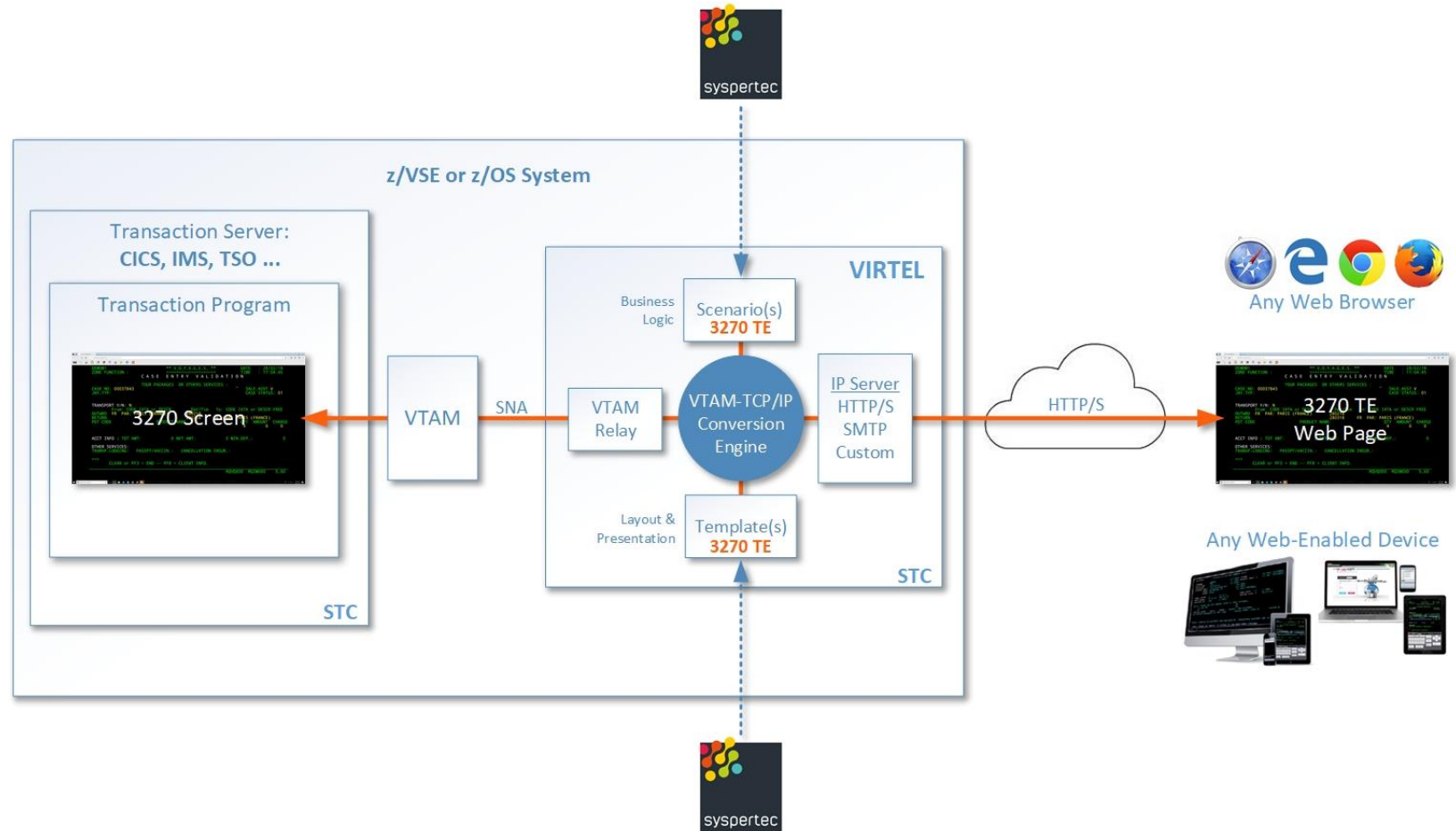
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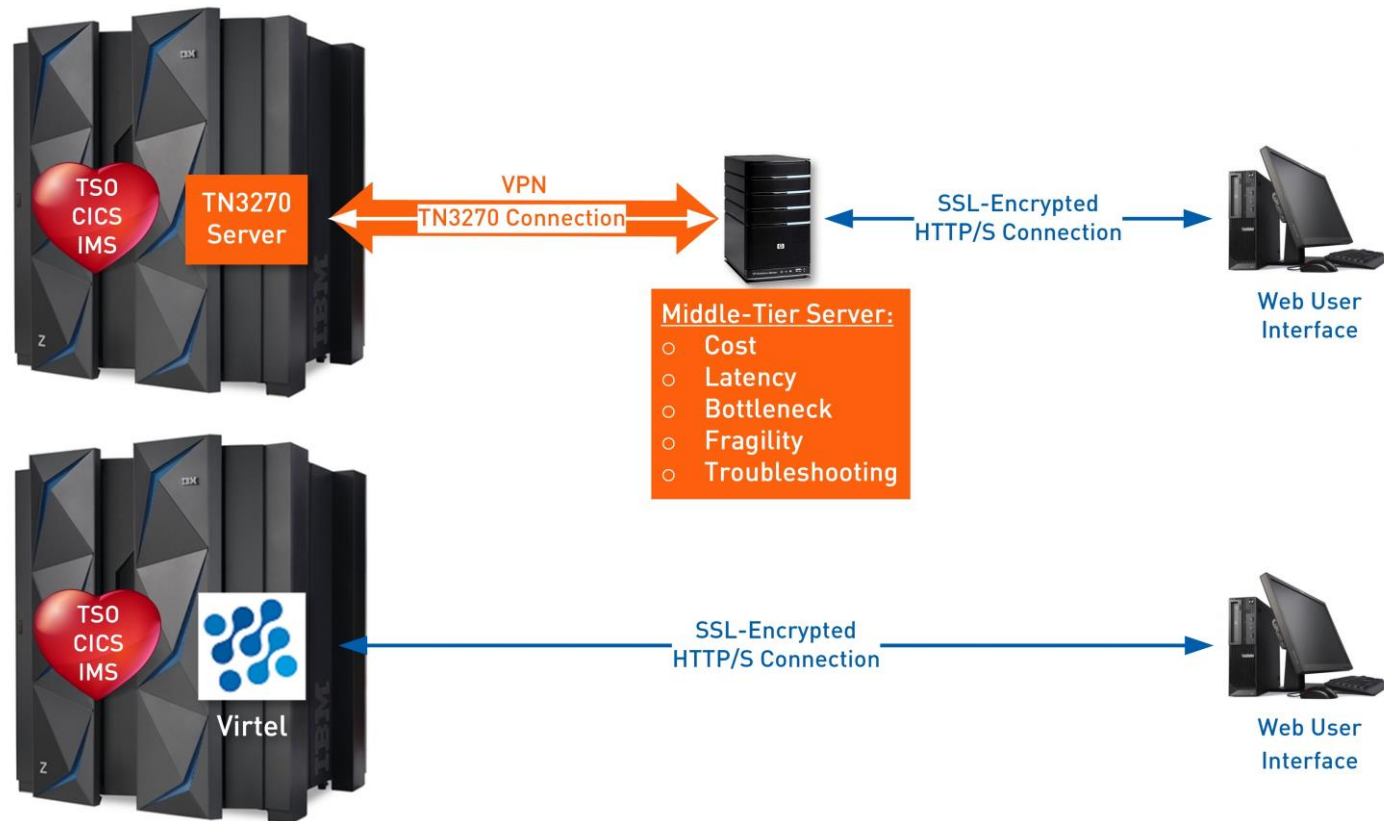


# Virtel Web Access

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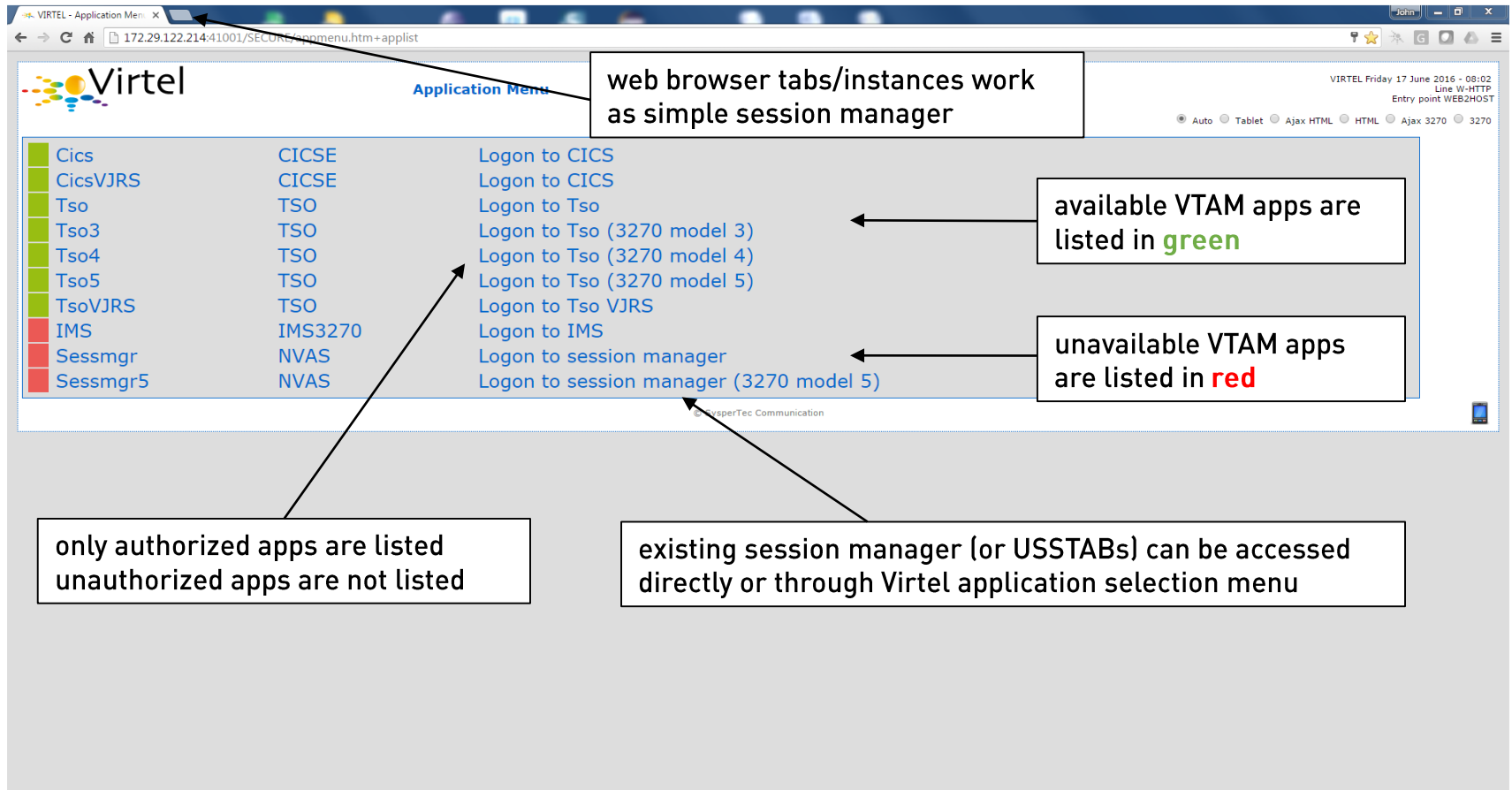
# No Middle-Tier Server



*... since the majority of [us] have to telework, we started to tax our VPN network. A lot of my colleagues prefer using Virtel as opposed to BlueZone T.E. since Virtel doesn't have to traverse across the network as much, so the response time is much faster. (U.S. Federal Government Department)*

# Virtel Application Menu

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**Virtel Web Access**  
Virtel Web Modernization  
Virtel Web Integration



The screenshot shows the Virtel Application Menu interface. The menu is divided into two columns: available VTAM apps (green) and unavailable VTAM apps (red). The available apps include Cics, CicsVJRS, Tso, Tso3, Tso4, Tso5, and TsoVJRS. The unavailable apps include IMS, Sessmgr, and Sessmgr5. The interface also shows a list of logon options for each app, including direct logon and logon through session managers (USSTABs).

Annotations on the screenshot:

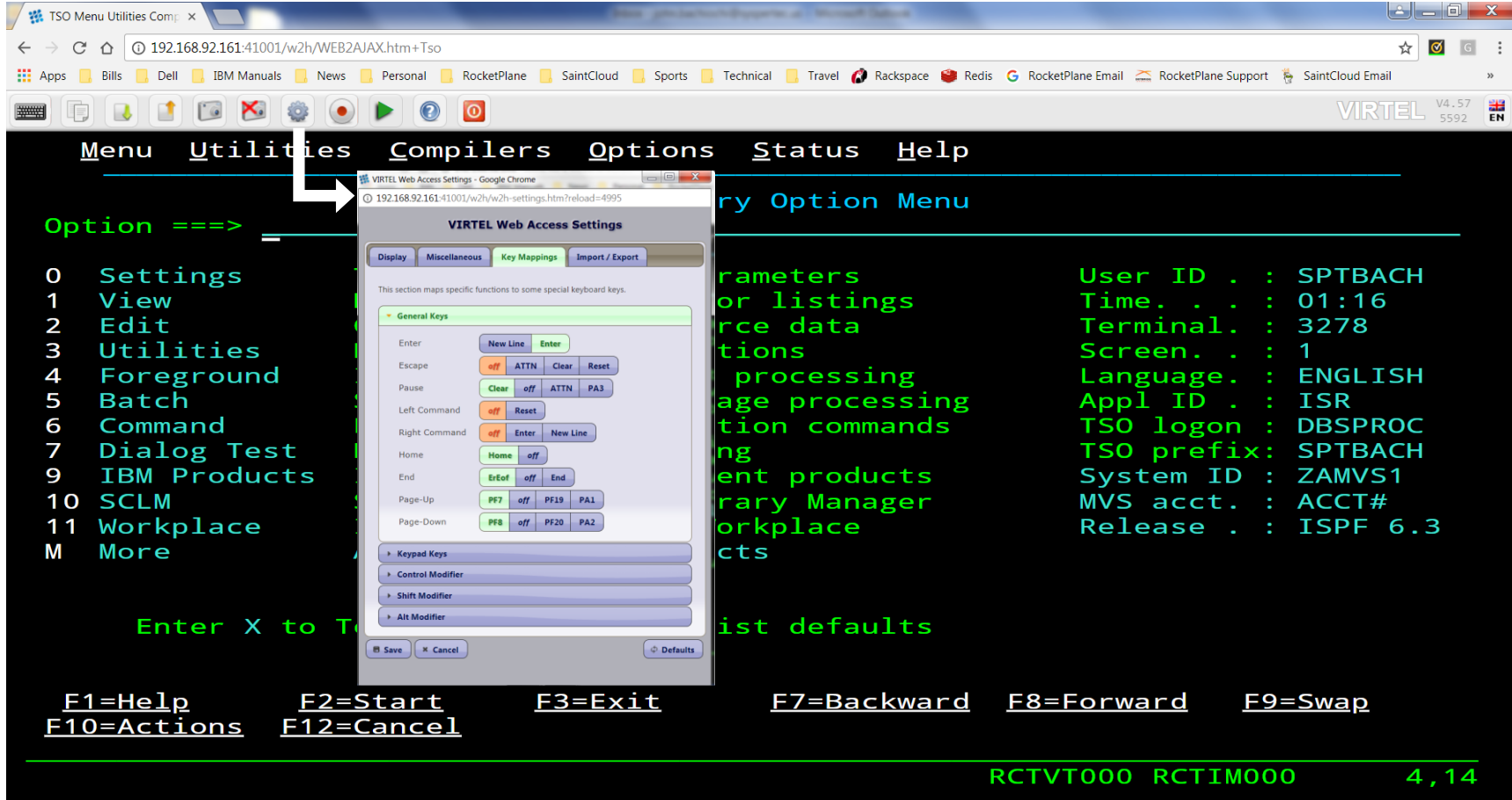
- web browser tabs/instances work as simple session manager
- available VTAM apps are listed in **green**
- unavailable VTAM apps are listed in **red**
- only authorized apps are listed  
unauthorized apps are not listed
- existing session manager (or USSTABs) can be accessed directly or through Virtel application selection menu

App Name	Session Manager	Logon Options
Cics	CICSE	Logon to CICS
CicsVJRS	CICSE	Logon to CICS
Tso	TSO	Logon to Tso
Tso3	TSO	Logon to Tso (3270 model 3)
Tso4	TSO	Logon to Tso (3270 model 4)
Tso5	TSO	Logon to Tso (3270 model 5)
TsoVJRS	TSO	Logon to Tso VJRS
IMS	IMS3270	Logon to IMS
Sessmgr	NVAS	Logon to session manager
Sessmgr5	NVAS	Logon to session manager (3270 model 5)

# 3270 TE Webpage

- ❖ Looks & behaves as a 3270 screen
- ❖ Toolbar for user settings, macros ...

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The screenshot displays the 3270 TE Webpage interface. At the top, a menu bar includes **Menu**, **Utilities**, **Compilers**, **Options**, **Status**, and **Help**. Below the menu, a list of options is shown: **Option ==>**, **0 Settings**, **1 View**, **2 Edit**, **3 Utilities**, **4 Foreground**, **5 Batch**, **6 Command**, **7 Dialog Test**, **9 IBM Products**, **10 SCLM**, **11 Workplace**, and **M More**. A settings dialog box titled "VIRTEL Web Access Settings" is open, showing the "Key Mappings" tab. The dialog contains sections for "General Keys" (with buttons for Enter, Escape, Pause, Left Command, Right Command, Home, End, Page-Up, Page-Down) and "Keypad Keys" (with buttons for Control Modifier, Shift Modifier, Alt Modifier). The status bar at the bottom displays **F1=Help**, **F2=Start**, **F3=Exit**, **F7=Backward**, **F8=Forward**, **F9=Swap**, **F10=Actions**, and **F12=Cancel**. The bottom right corner shows **RCTVT000 RCTIM000** and **4, 14**.

# Simpler Admin/Support

- ❖ Simpler installation-administration-support
  - Fully centralized (z/OS or z/VSE running) solution
  - Nothing to install-admin-support on remote clients
    - No Java
    - No applets or plugins
- ❖ Simpler deployment
  - Point browser to installation-defined URL/port
- ❖ Reduced support costs → reduced TCO

*Particularly well suited  
to work from home*



# BYOD Compatibility



❖ Supports any 3270 TE client technology

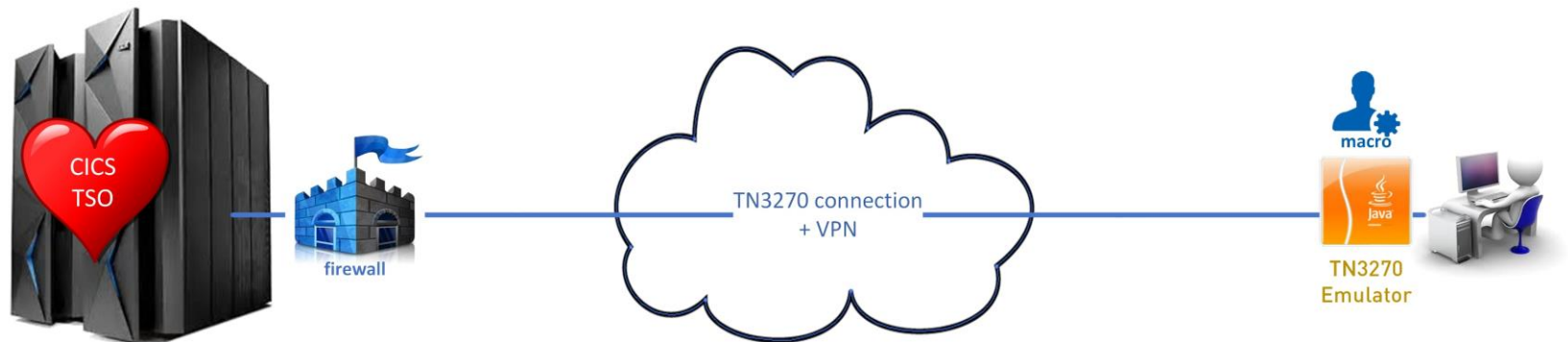
- Including mobile devices

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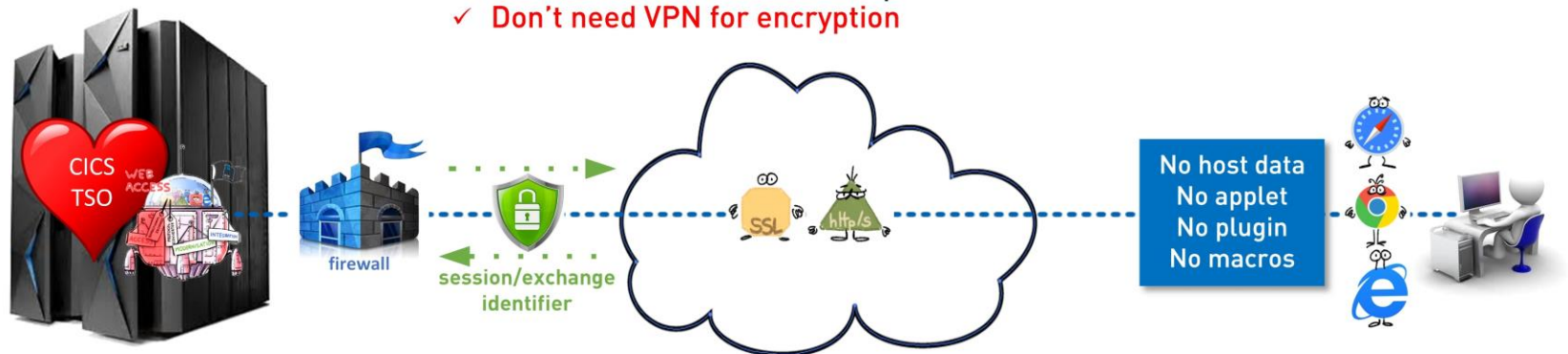
# SSL-Encrypted HTTPS Connections

TN3270 connections + VPN



SSL-encrypted HTTPS connections:

- ✓ IBM AT-TLS (PAGENT) or ICSF
- ✓ FIPS 140.2 + TLS 1.2/1.3 compliant
- ✓ **Don't need VPN for encryption**



# VWA – Customer Story

## ❖ Financial Services

- Serves investment clients in U.S. and Canada
- More than 14,000 branch locations
- Nearly 8 million clients and \$1 trillion in assets

## ❖ Most employees must work from home

## ❖ Accelerated implementation

- |                                   |                 |
|-----------------------------------|-----------------|
| ○ First contact                   | Tuesday         |
| ○ Installation                    | Wednesday       |
| ○ Configuration                   | Thursday        |
| ○ Browser/network/security holdup | Friday + Monday |
| ○ Deployment + POC start          | Tuesday         |
| ○ Production rollout              | TBD             |

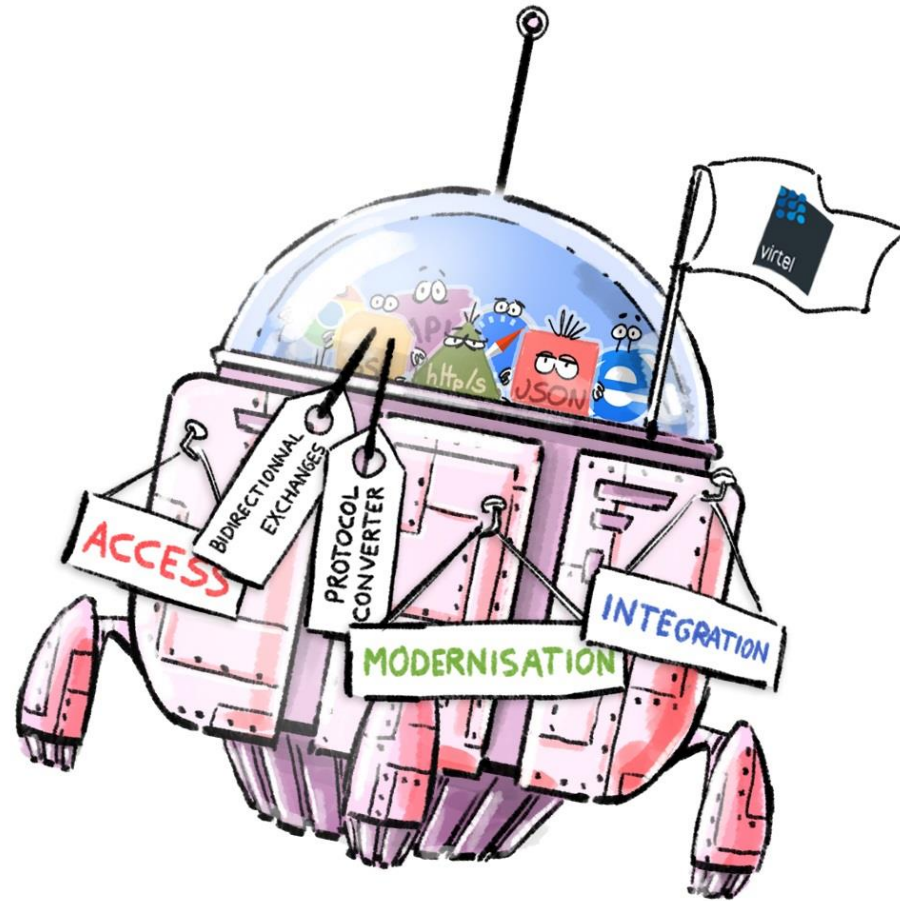
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# Virtel Web Access Implementation

- ❖ Installation Day 1
  - Orientation
  - Download product (FTP) + receive product key (email)
  - Install product
- ❖ Configuration Day 2
  - Define lines, applications, etc.
  - Logon
    - Authentication and authorization
    - Start-up: application menu, session manager, or USSTAB
- ❖ Network + Security + Browser Day 3
- ❖ Deployment Day 4
  - Trial = technical vetting
    - z/OS technical support team
    - Small “power” users group
  - Phased production rollout
    - All users



Domenic Cifani  
Systems Engineer



# Any Questions?

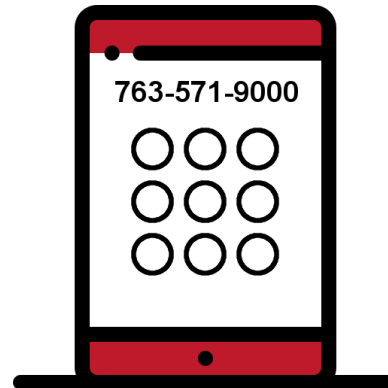
[info@syspertec.com](mailto:info@syspertec.com)



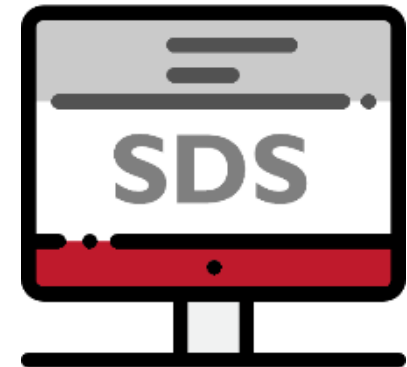
## Would you like additional information?



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