



# **New Security Tech**

Presentation for ISPAB

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# Virtualization and Security

Virtualization has Helped Reinforce the  
Patchwork of Security Products in the  
Data Center and Embedded Worlds

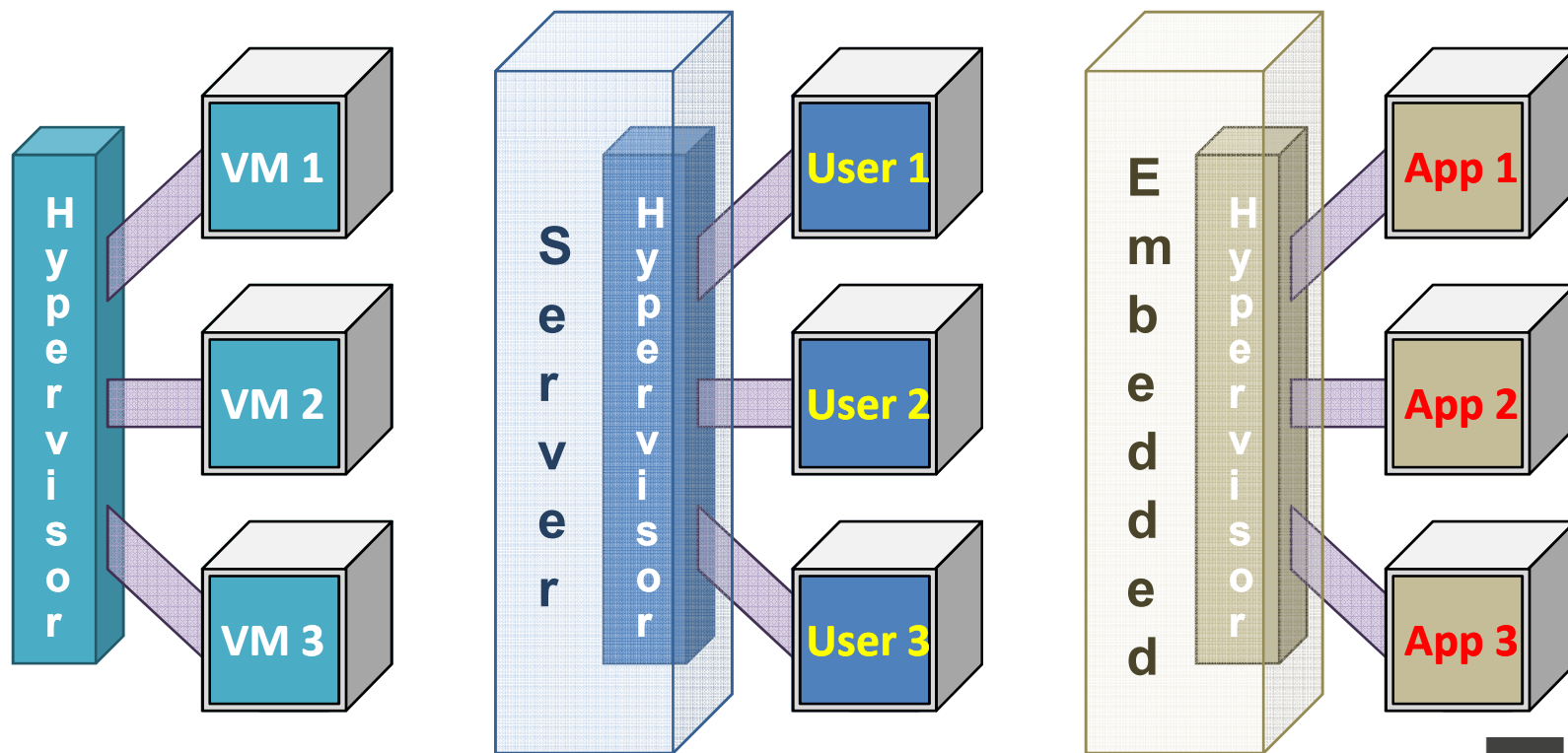
But

End User Systems Remain the Weakest Link

**Vir2us is Endeavoring to Solve  
the End-Point Problem**

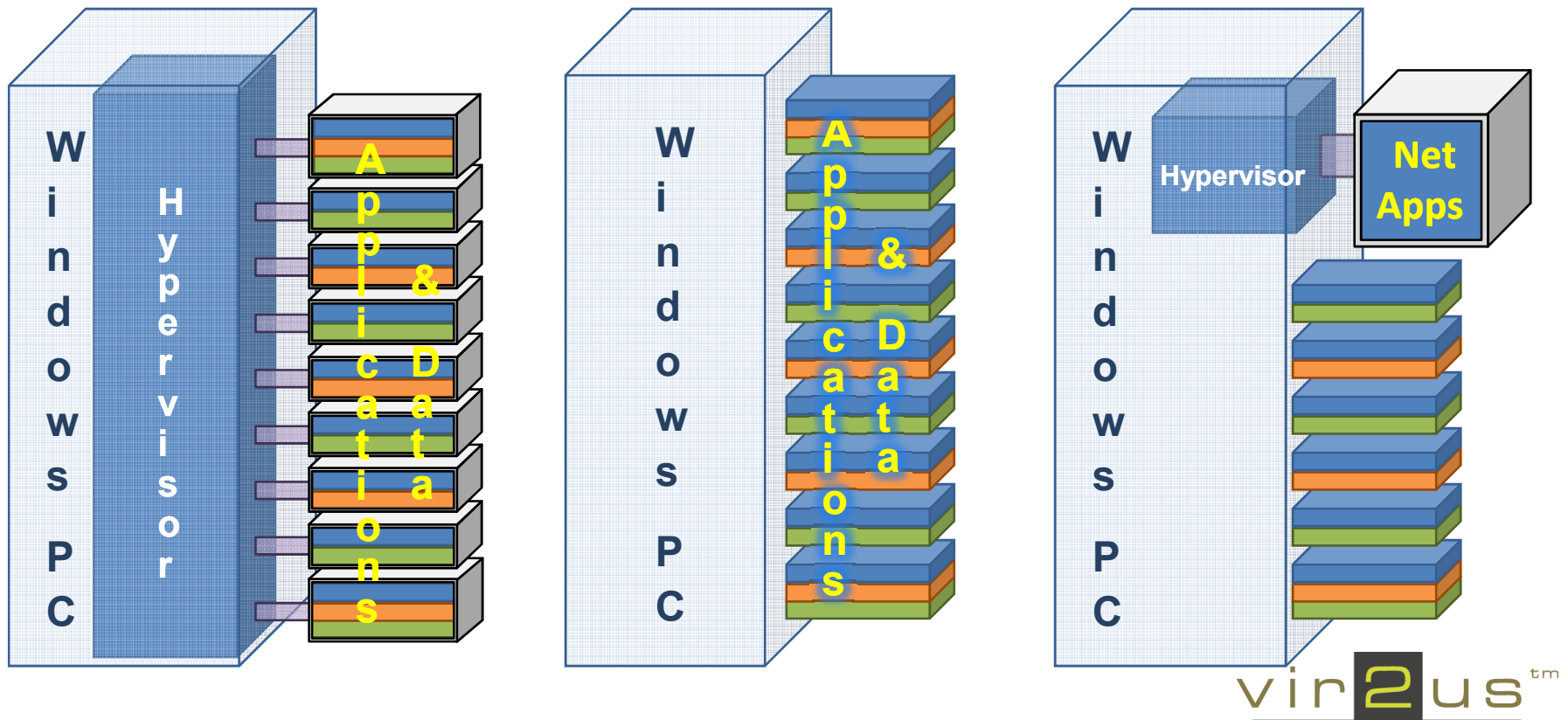
# Virtualization Enables Risk Isolation

- **Virtual Machines: Isolated from Each Other**
- **Virtualization on a Server** (remote hosted / thin client / cloud / etc.)
- **Virtualization in Embedded Systems**



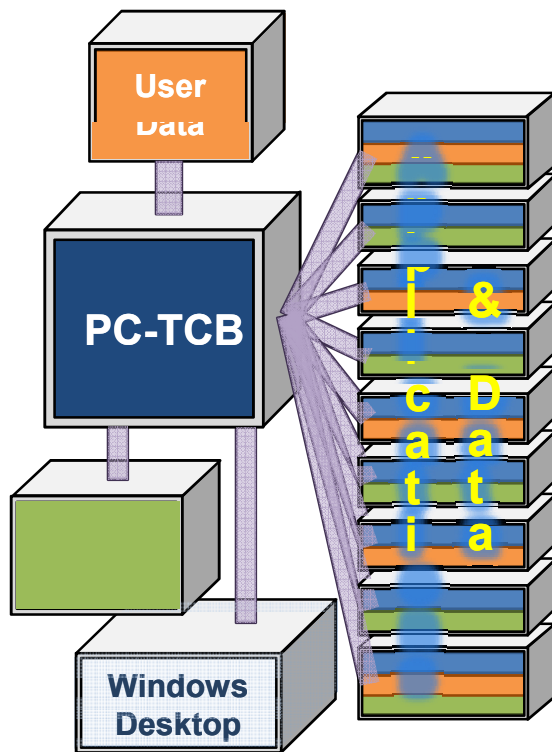
# Desktop Virtualization: the Next Wave?

- **Functionality not as easily partitioned on User PCs**
- **Virtualized “Sandboxes” Disrupt User for Minimal Benefit**
- **Ideal: Each User File Processed in Isolated Containment**



# A Discrete, Intelligent PC-Resident TCB

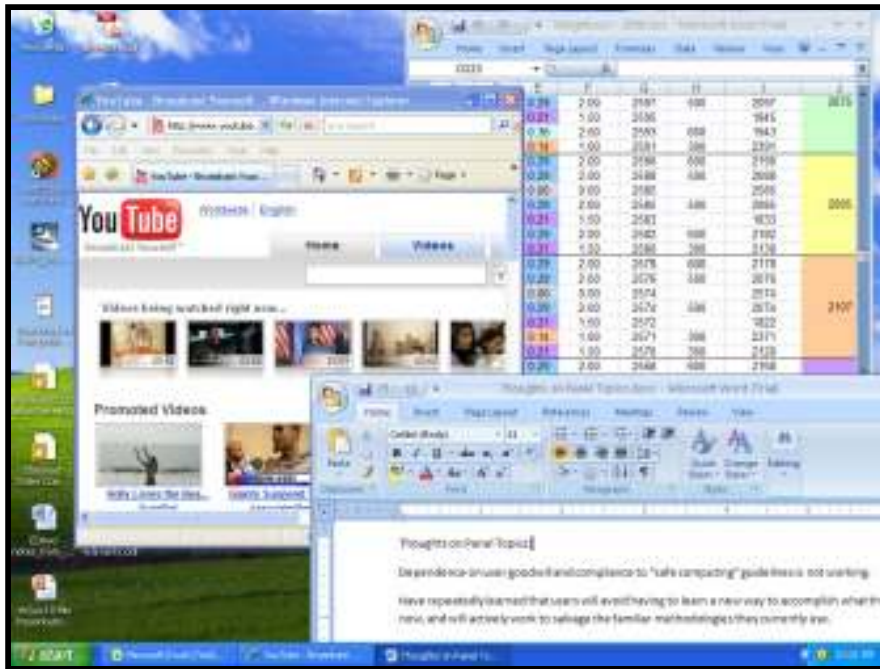
- **Known-Good Intelligence, Outside Processing Flow**



- **Enforce Access Policies / Permissions for All Interactions**
- **Preserves a Stable of Pristine Application Code**
- **System Stability Improved and Performance Anchors Eliminated**
- **A Seamless Retrofit for Existing Operating Systems**

# Real-World Desktop Virtualization Challenges

- **Must Preserve the Normal User Operating Experience**



- **Isolation and Containment by Local Virtualization will Only be Effective:**
  - **If the User is Unaware of its Existence, and**
  - **If System Administrators Can Do their Jobs**

- **Vir2us has a Significant Portfolio of Patents**

# Inherent Delivery of Security & Reliability

- **Virtualization Helps with Patchwork of Security Solutions**
- **Challenges to Effective Virtualization on a Real-World PC**
- **Vir2us Expands the Notions of Virtualization & Security**
  - Reduces target size to a single file at a time
  - Ensures PC is always pristine and reliable
  - A way to retrofit security onto insecure OS

vir2us<sup>tm</sup>

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***Enabling Safe & Sound Computing***