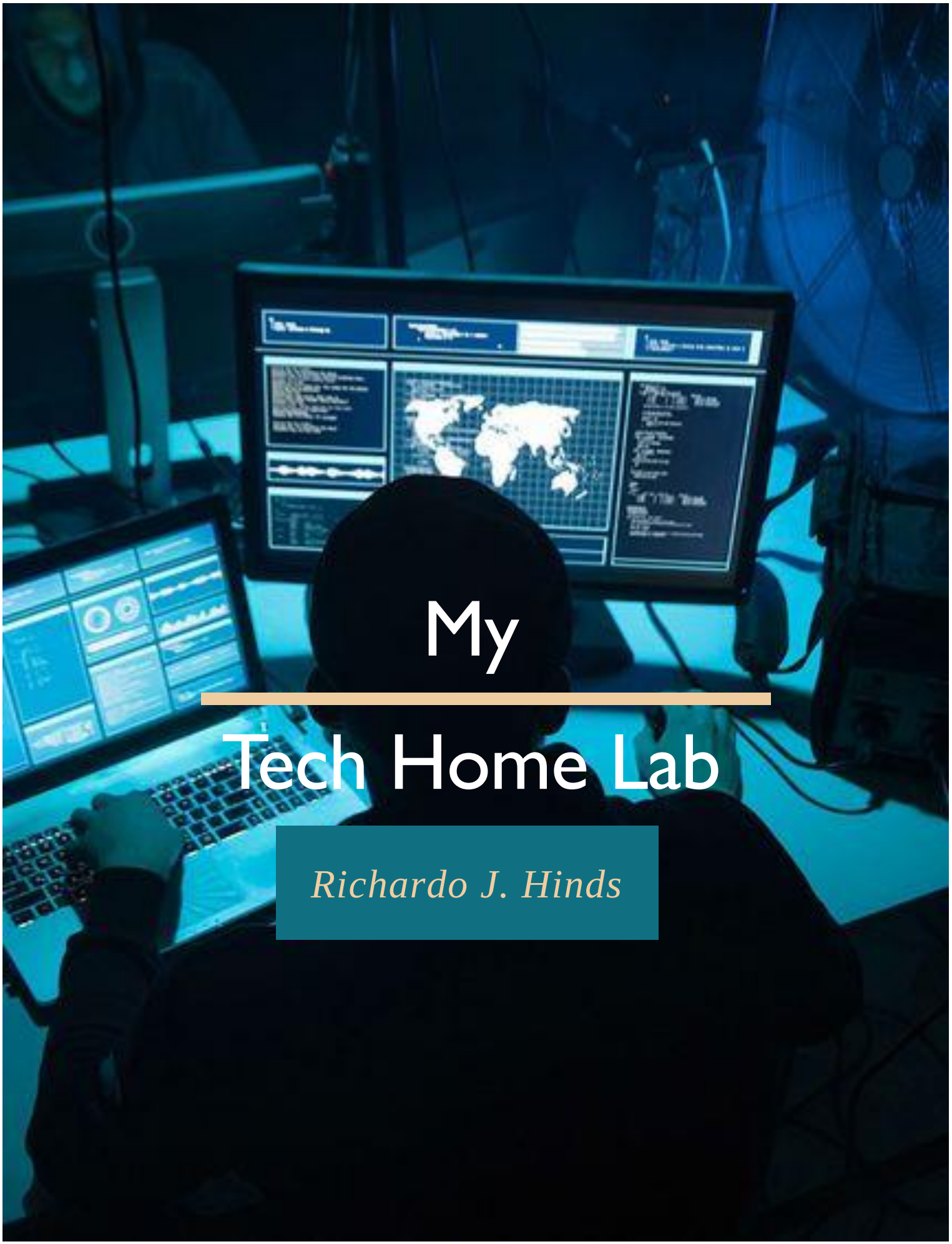


My Tech Home Lab

Richardo J. Hinds

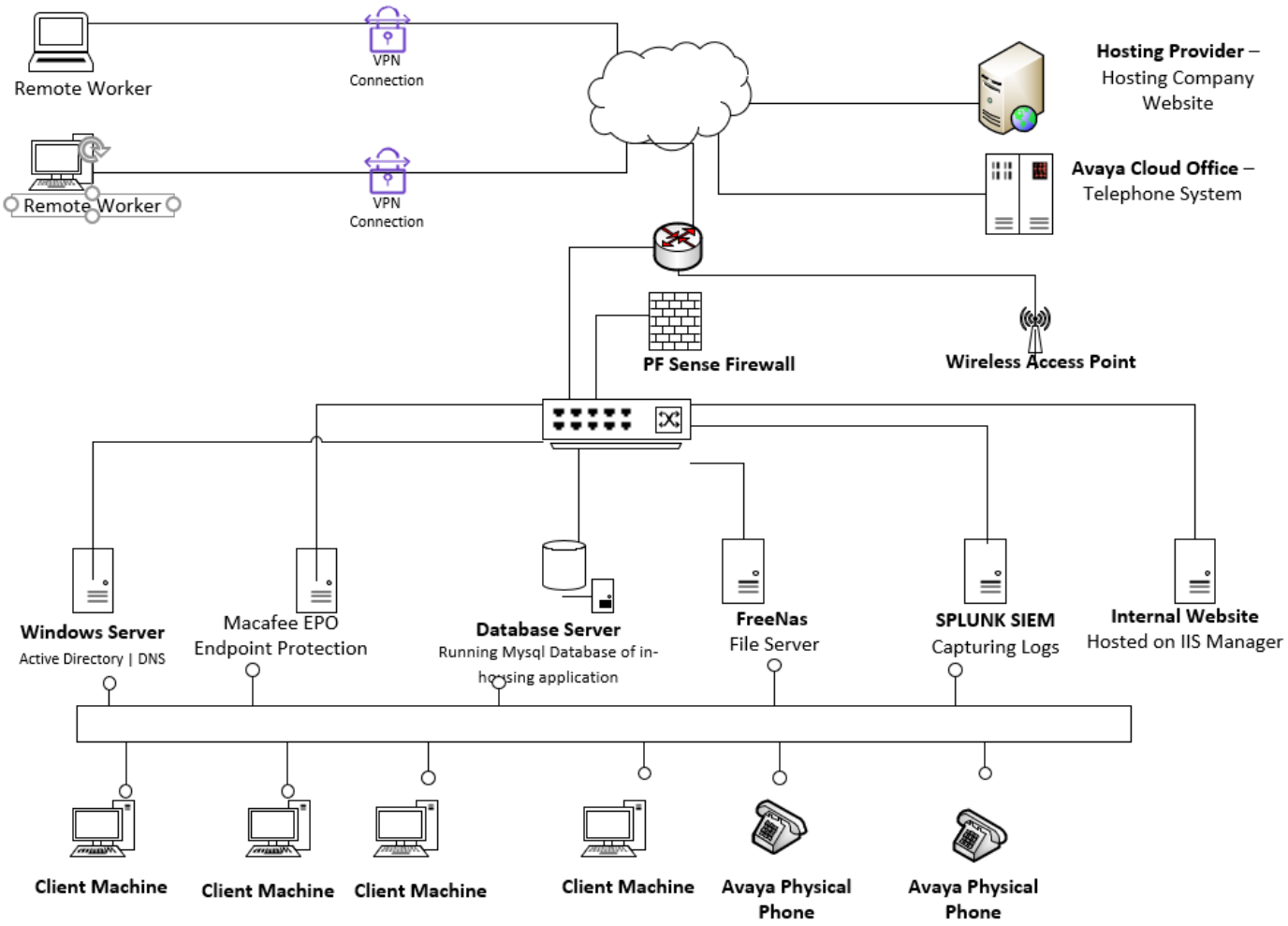
TABLE OF CONTENTS

Summary Of the Lab

Technologies / Tools

Technology / Tools	Category	Purpose
Remote server Administration Tools (RSAT)	**Administrating Active directory from Client Machine**	**Access the Server to perform IT administration**
Veem backup & Replication	**Backup Tool**	**Backup endpoints**
TrueNas	**File Server**	**File Server that will be used to stroe the organization's data. Access Control List gives certain users certain access to access and modify files.**
Spiceworks	**Tech Ticketing System**	**A customized spice work has been created to use as the Tech Ticketing System accessible to all clients**
Avaya Cloud Office	**Phone System**	**This is a cloud-based Technology telephony system**
Macafee EPO	**Endpoint Protection**	**Antivirus Tools that manage and protects endpoints from virus and Malware**
SoftEther VPN	**VPN**	**Allow Remote workers to access internal database and network resources on the network**
Bitlocker Encryption	**Drives Encryption**	**Encrypting client drive.**
IIS Manager on Windows Server 2016	**Website Hosting**	**Host a website via IIS Manager. This website is only accessible to remote users accessing the VPN.**

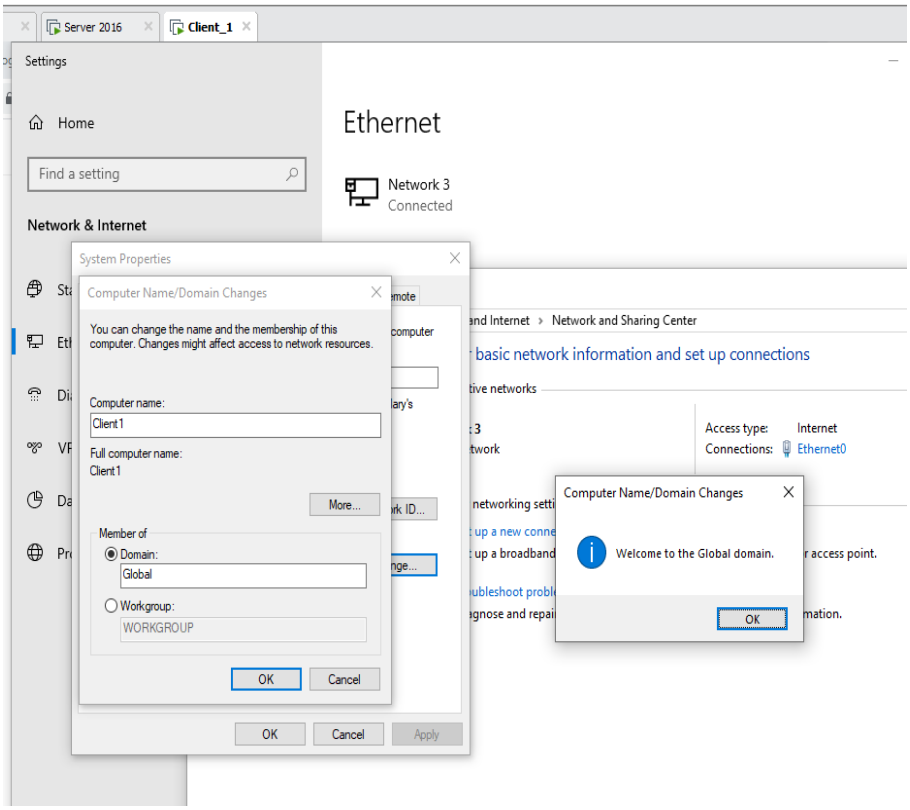
Networking Diagram



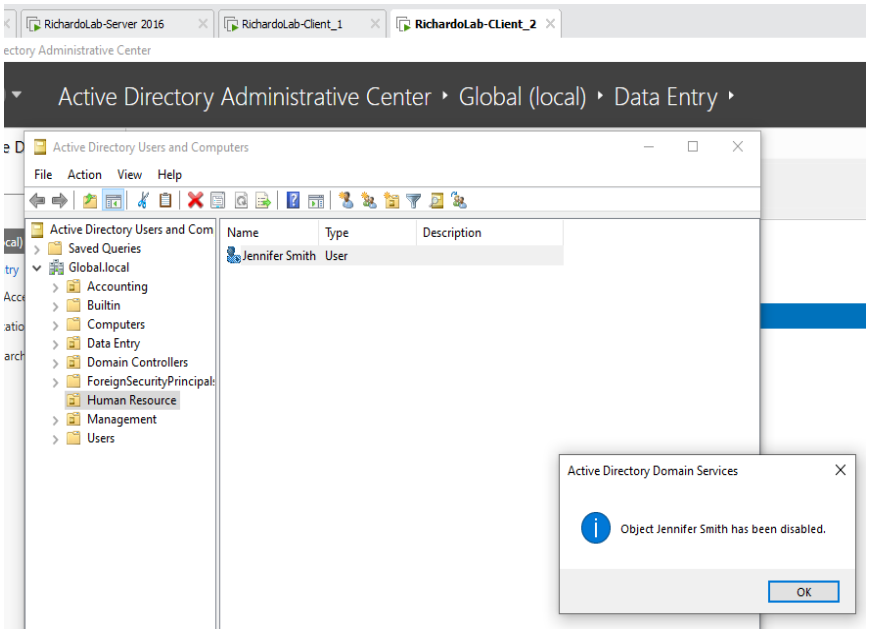
Maxine Campbell	**192.168.1.2**
Steve Campbell	**192.168.1.3**
Jennifer Smith	**192.168.1.4**
Matthew Samuels	**192.168.1.5**
Sarah Paul	**192.168.1.6**
John Paul	**192.168.1.7**

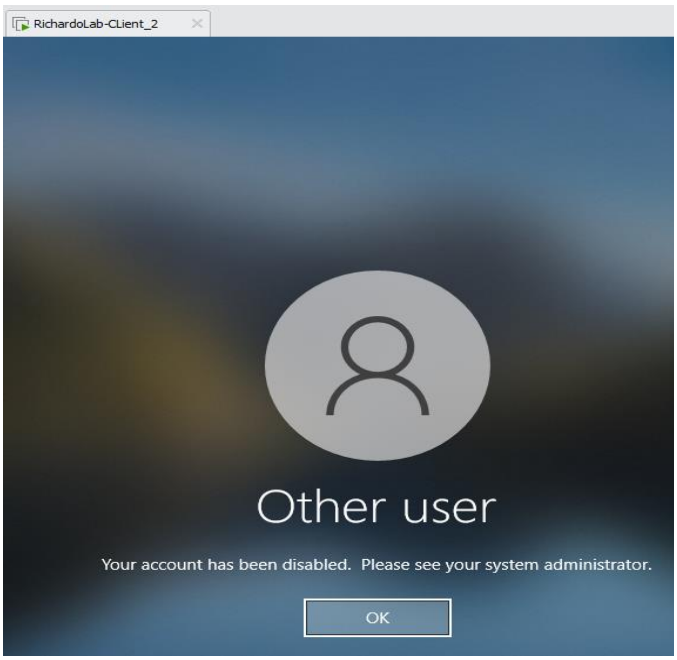
Active Directory and Administration

Joining machine to the Domain

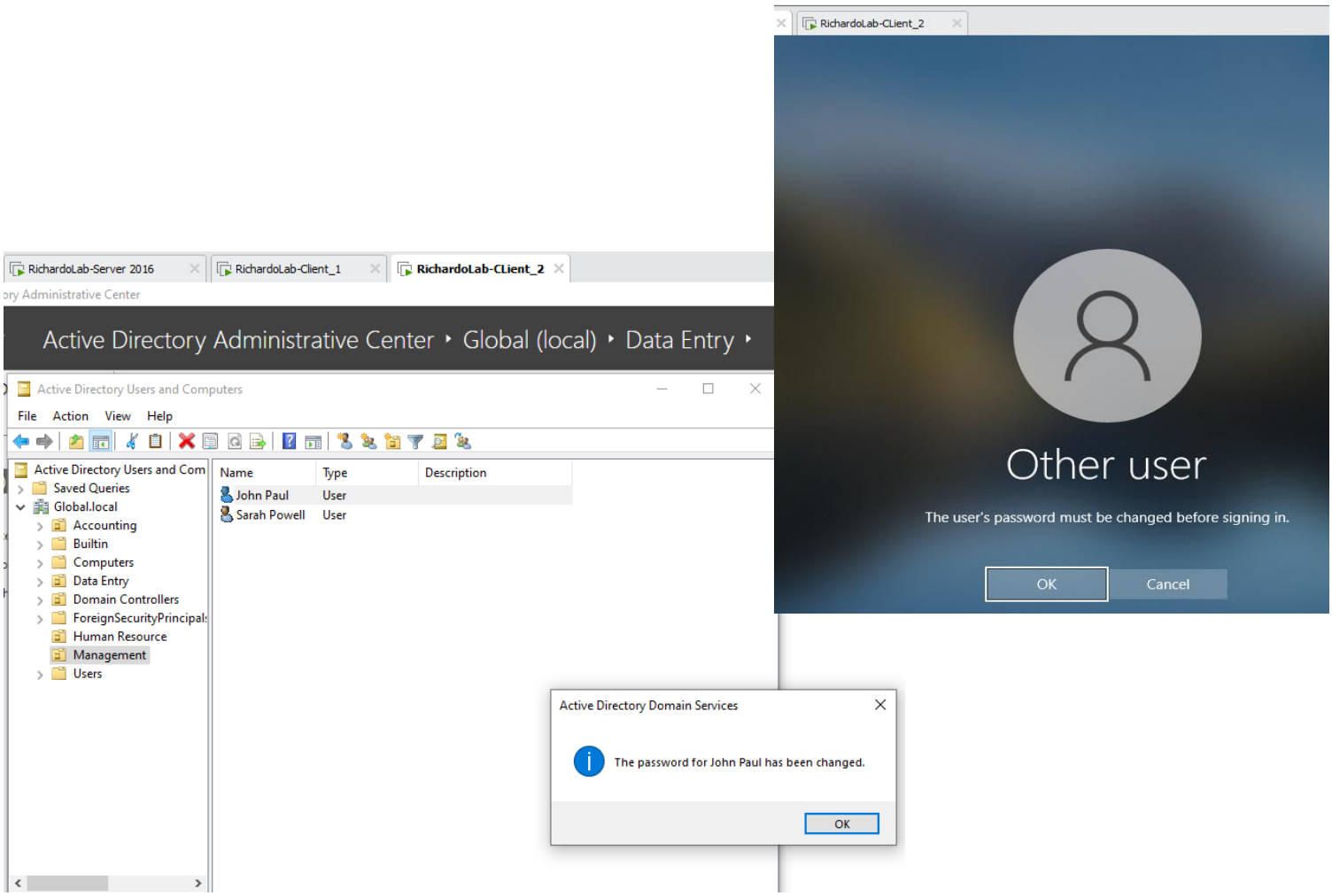


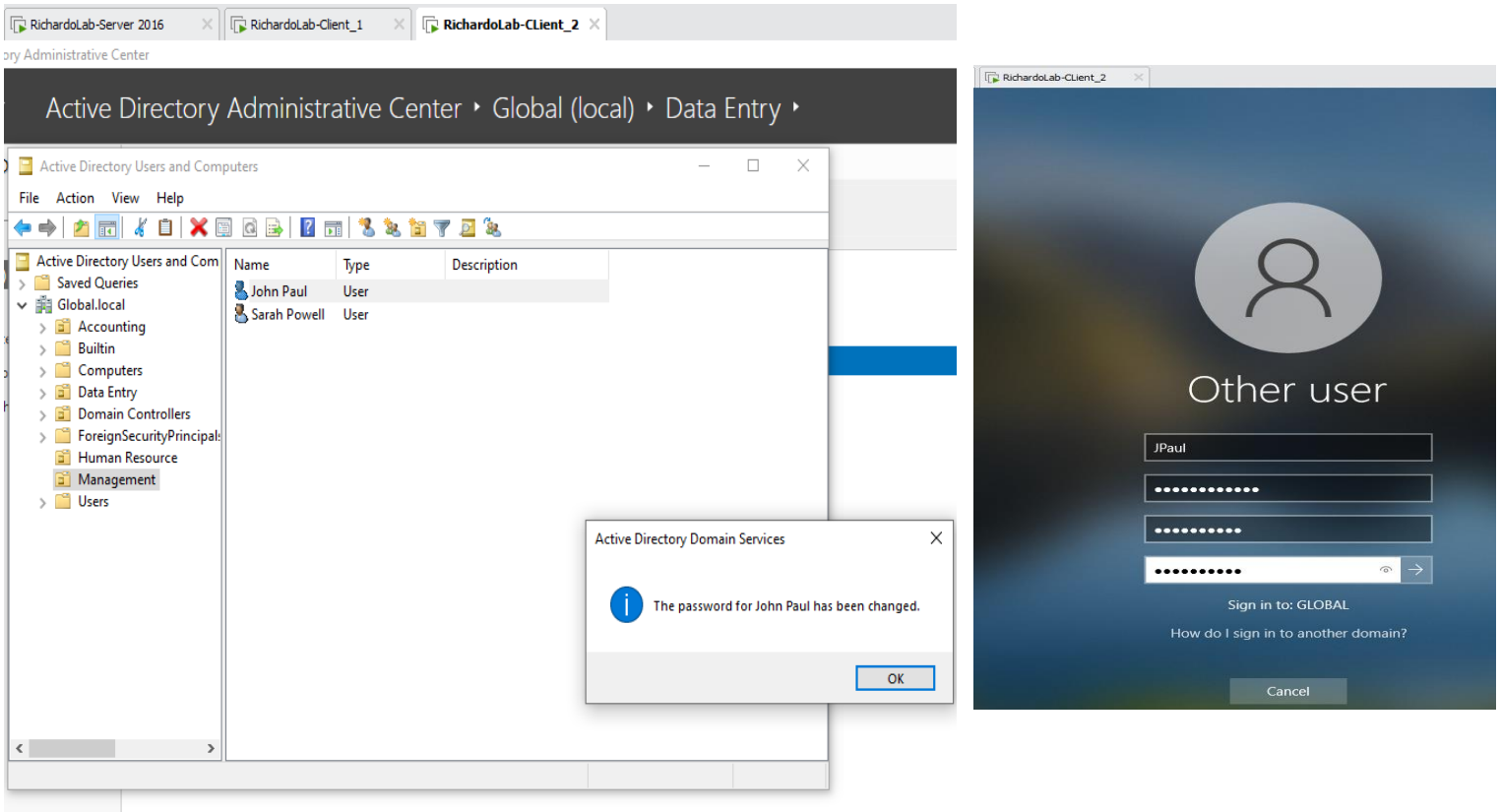
Disabling an User



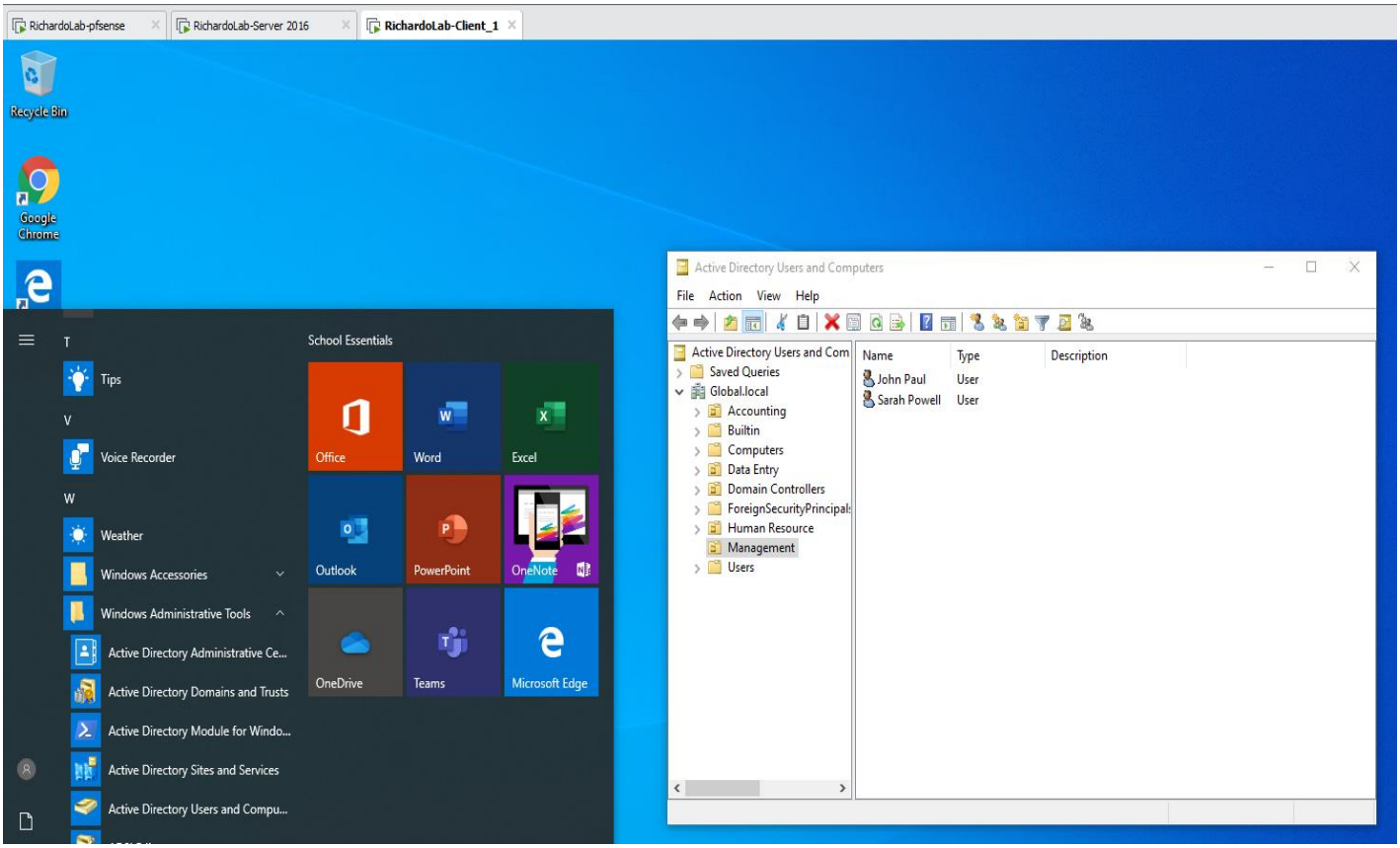


Reseting user Password



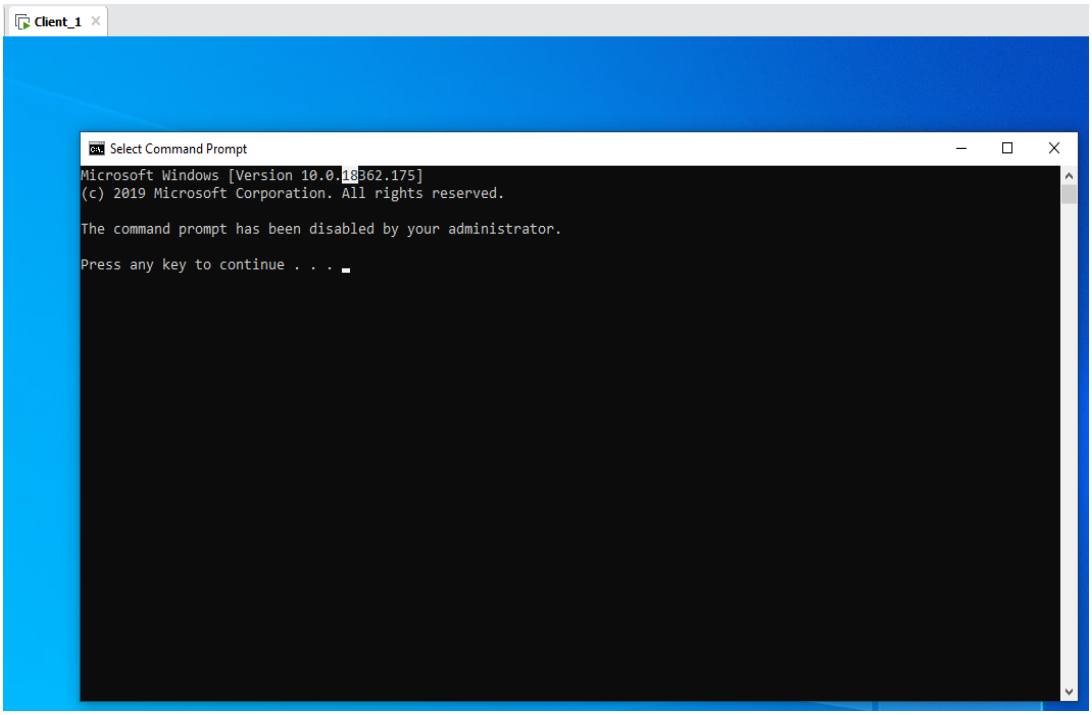


Remote Server Administration Tools (RSAT)



Performing Active Directory Administration From Clients Machines

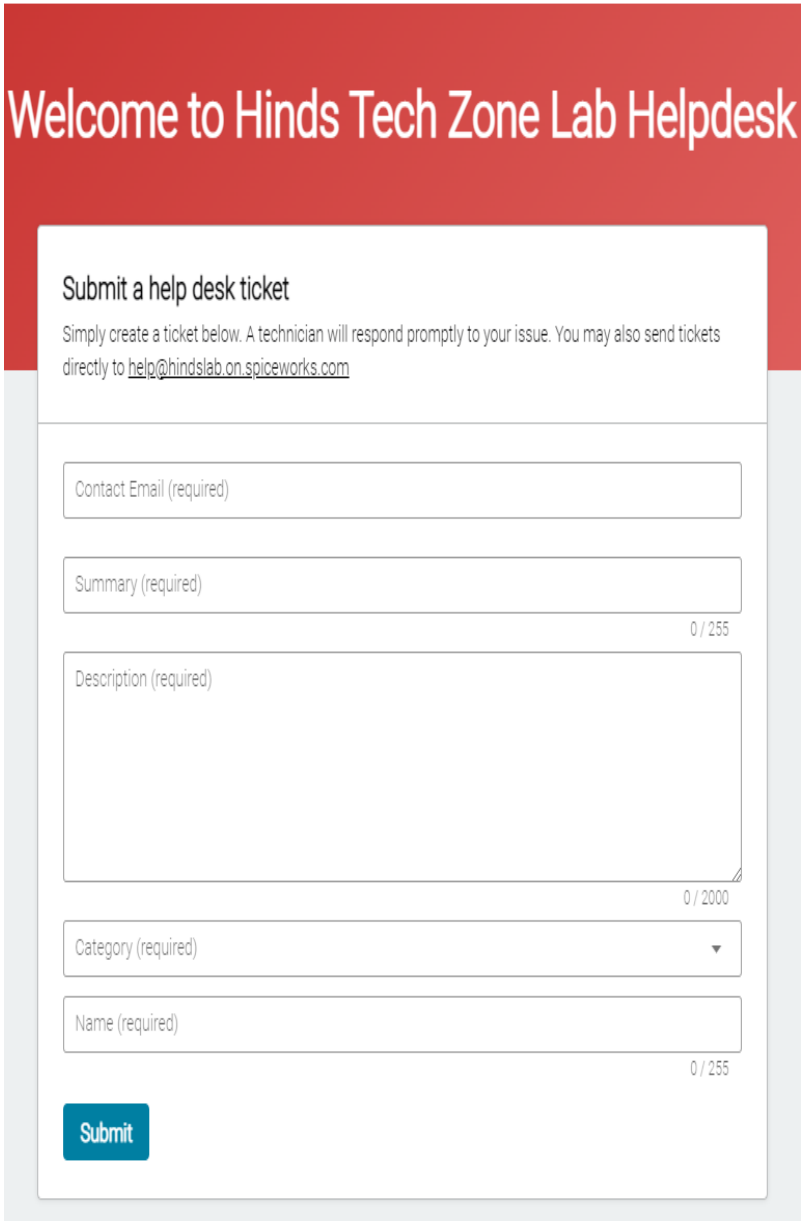
Group Policy



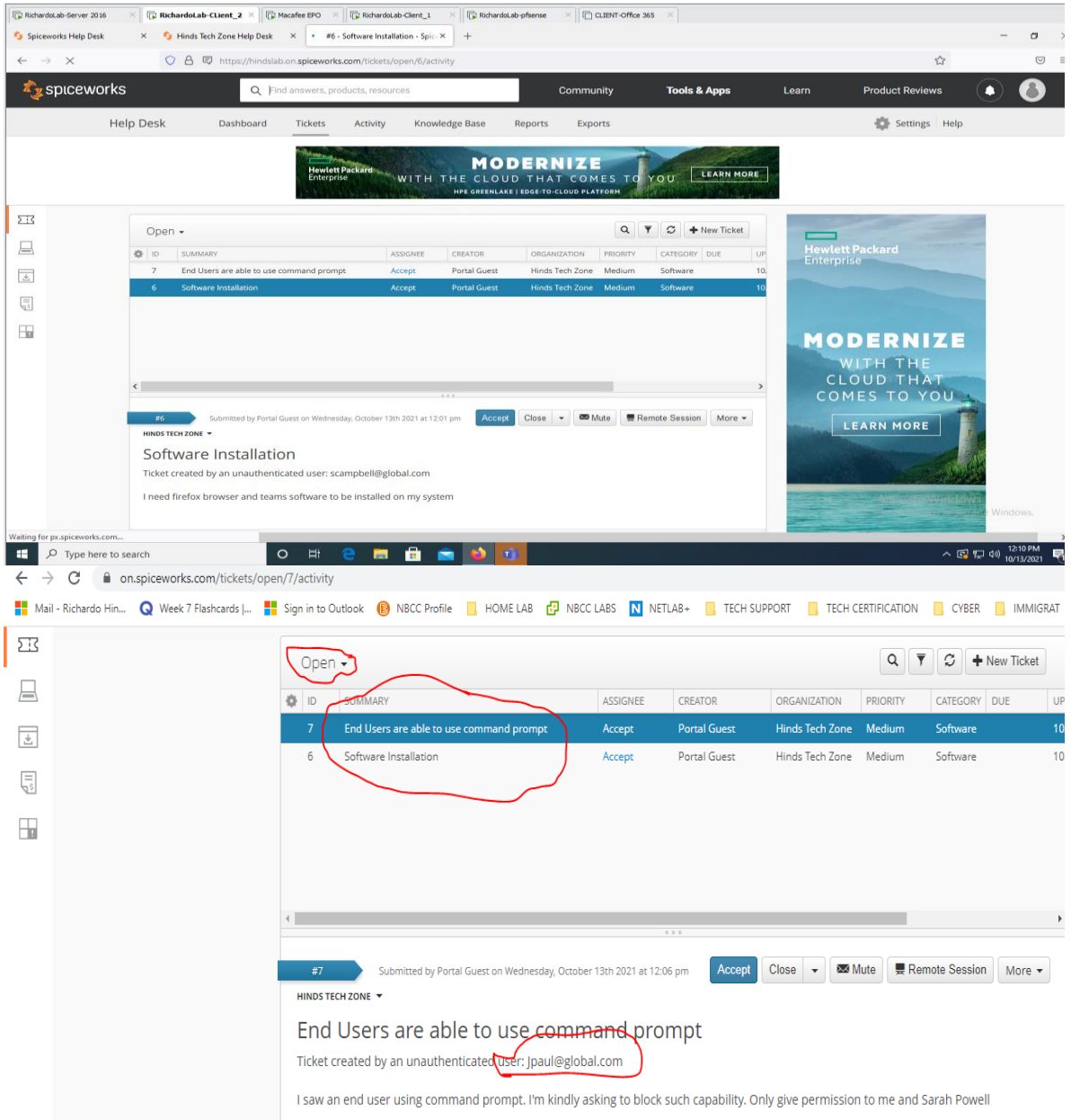
Preventing client users from accessing the command line.

Tech Ticketing System

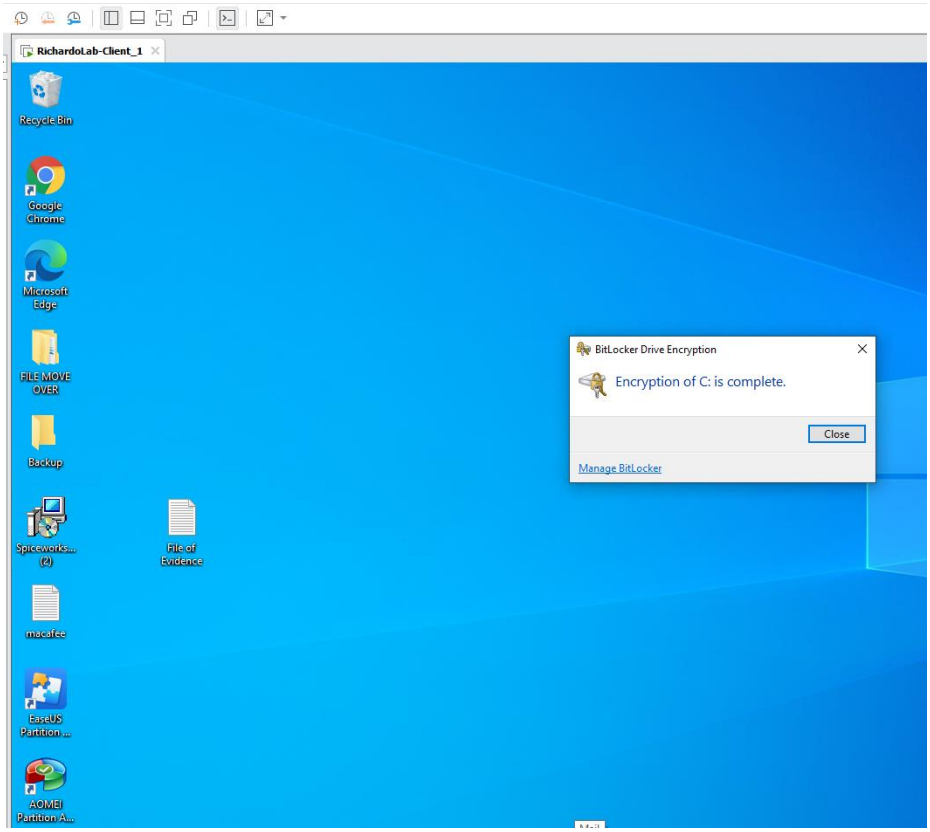
Client View -https://hindslab.on.spiceworks.com/portal



Tech Support View

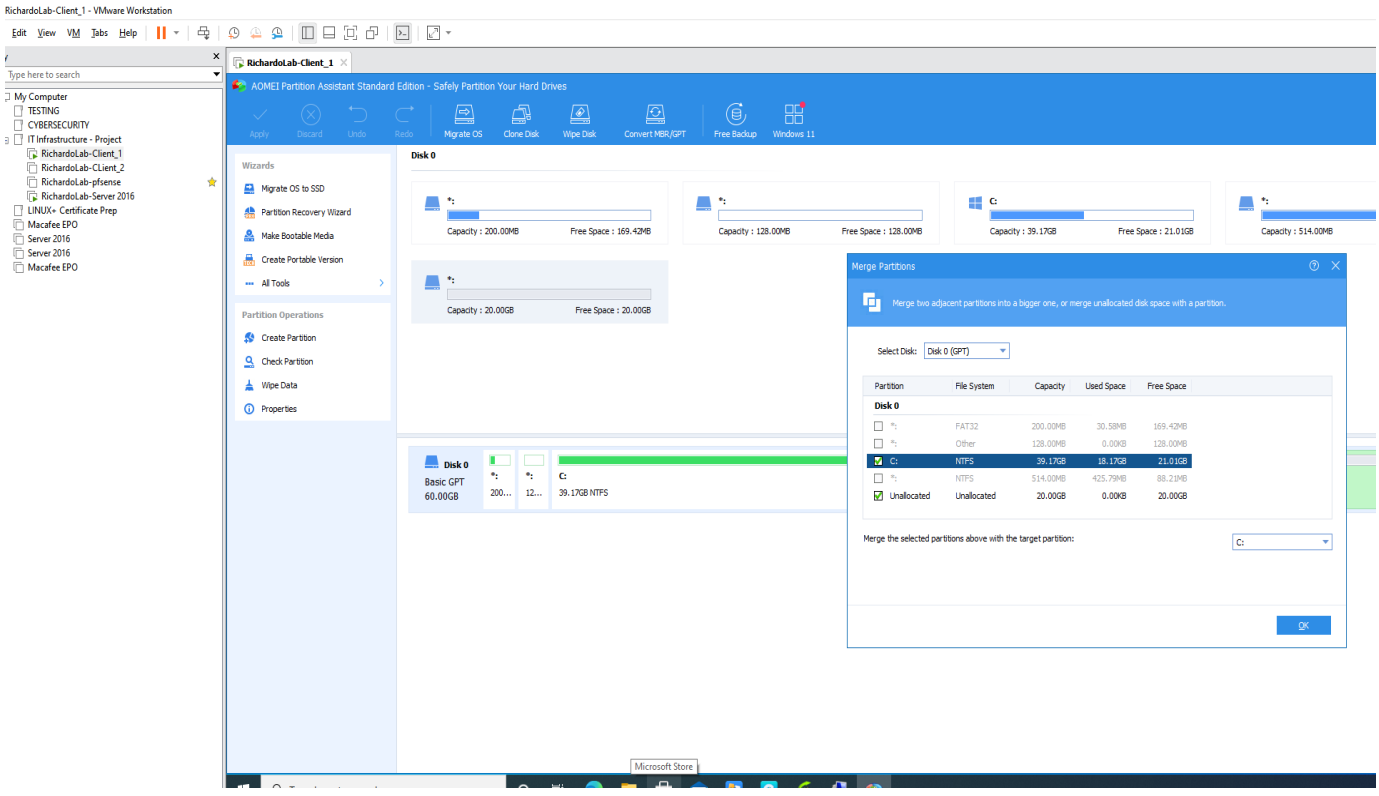


Drive Encryption

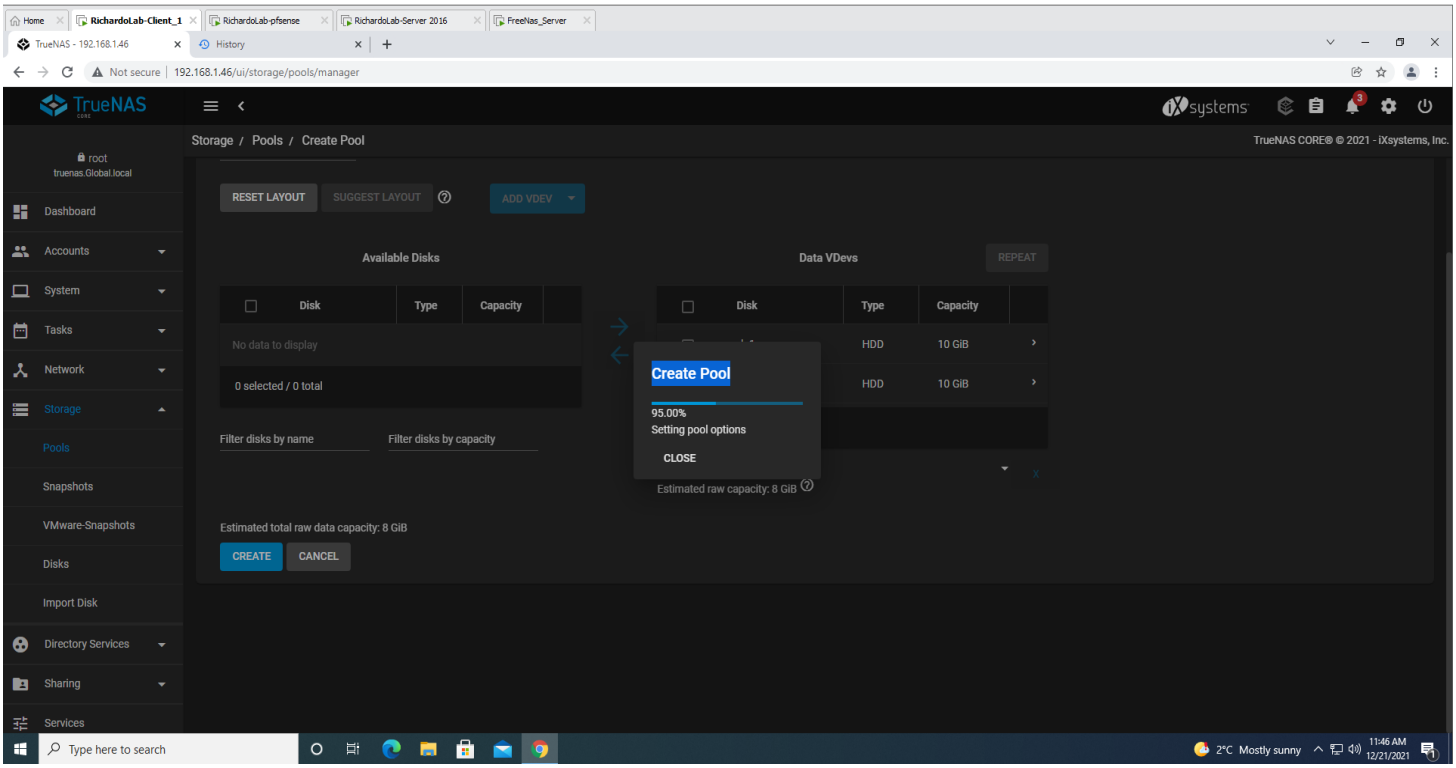


Hard Drive are encrypted using BitLocker

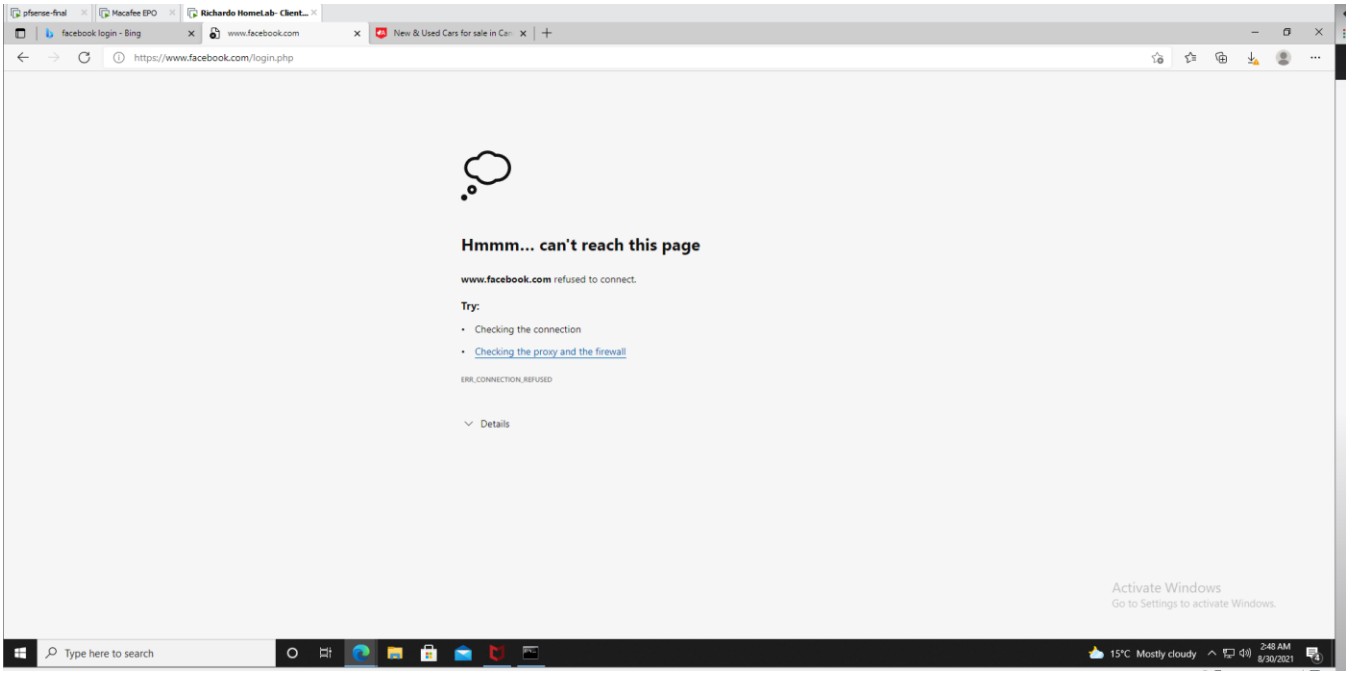
Merging two Partitions



Truenas File Server

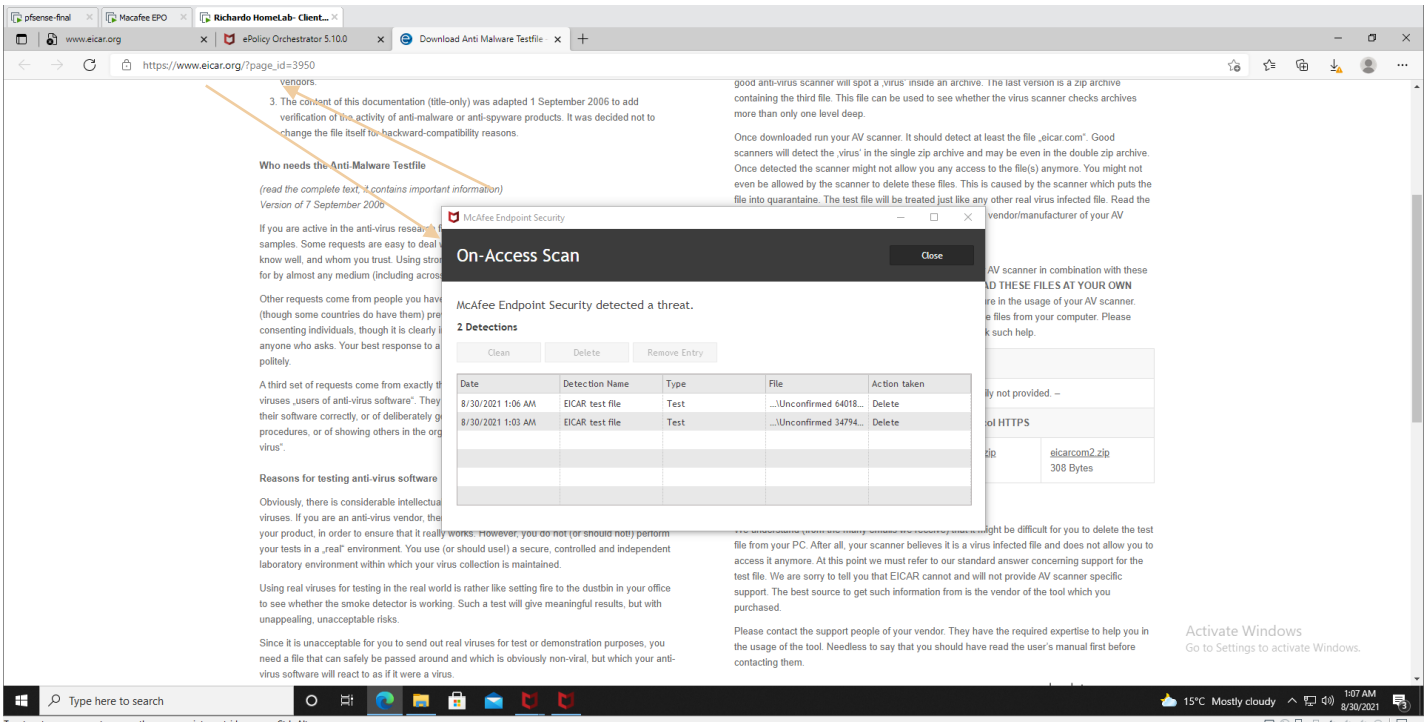


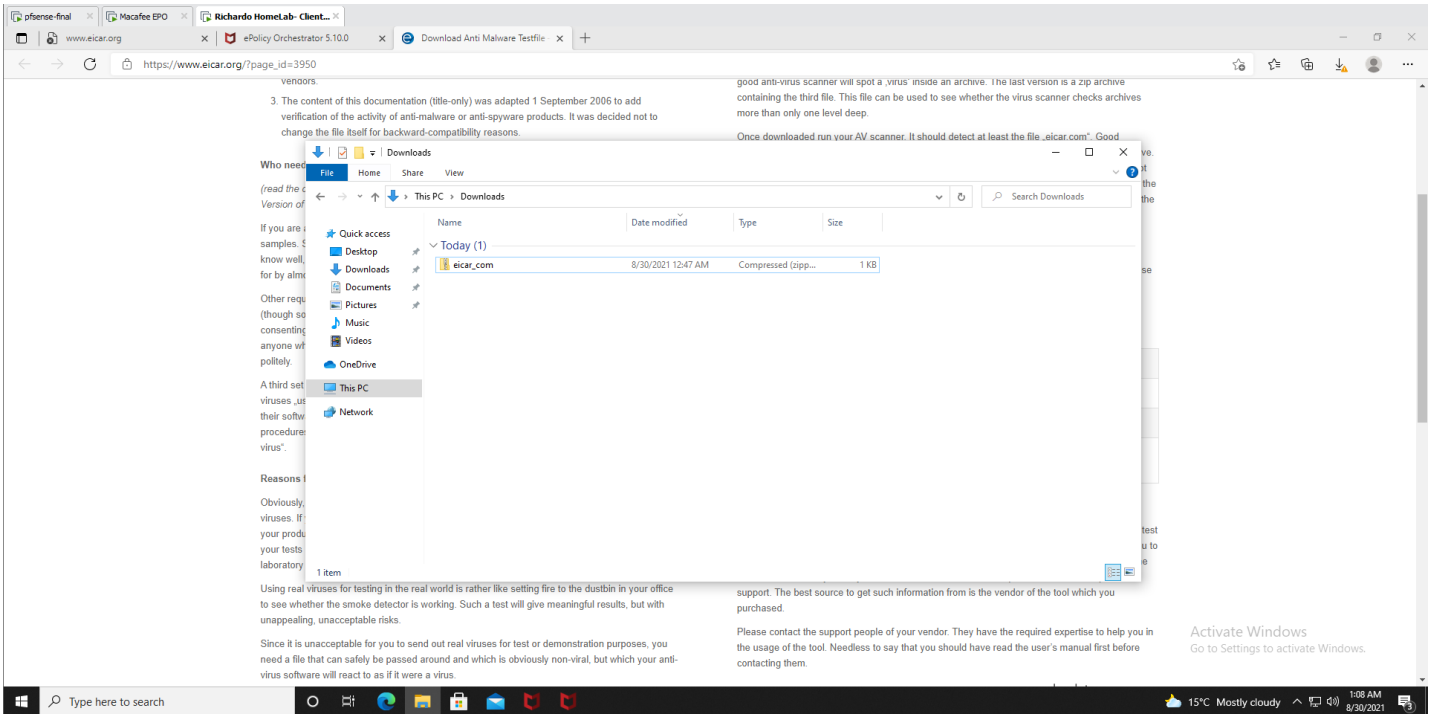
Applying Content Filtering Using Pf Sense Firewall



Macafee Endpoints

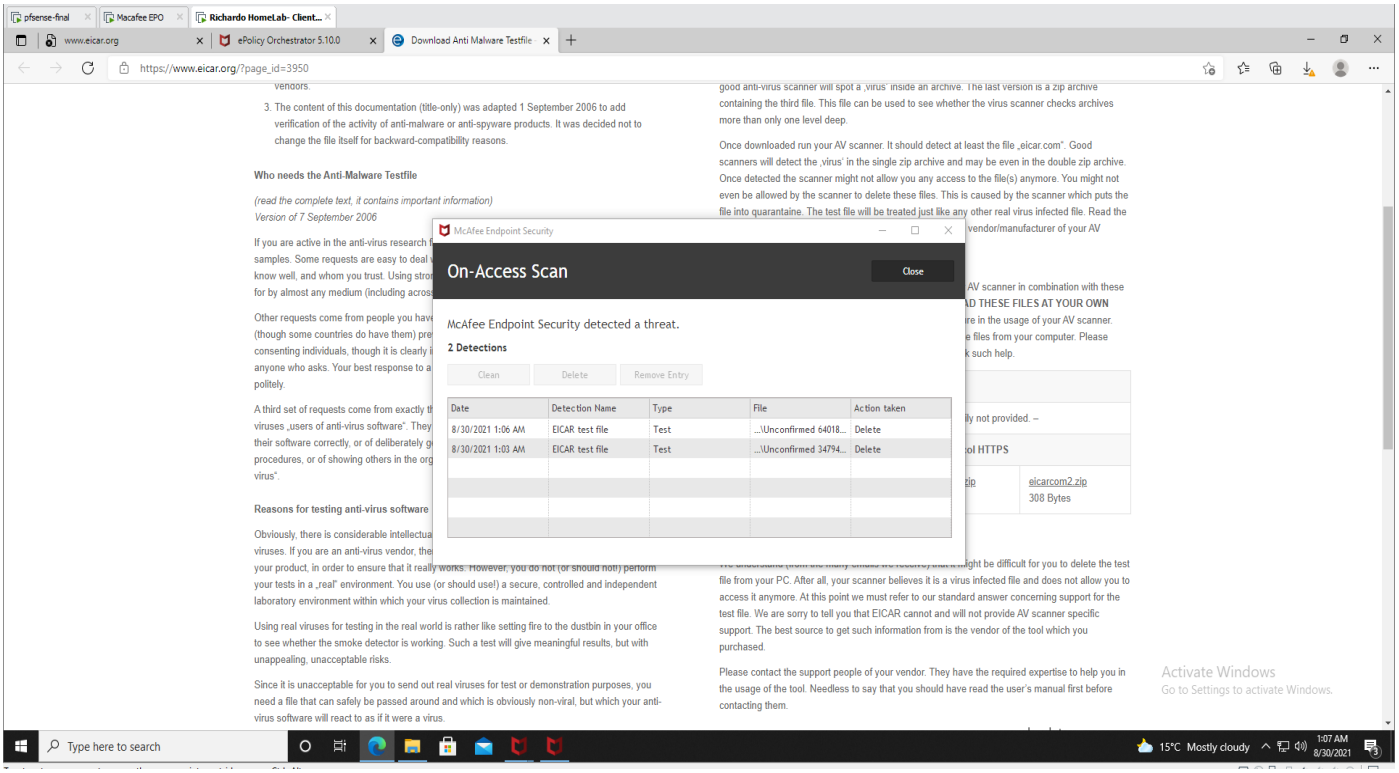
Visited a malicious website, and attempts to download a malicious file. On-Access Scan policy is being deployed to the endpoints, hence it was able to detect that the file was malicious and was able



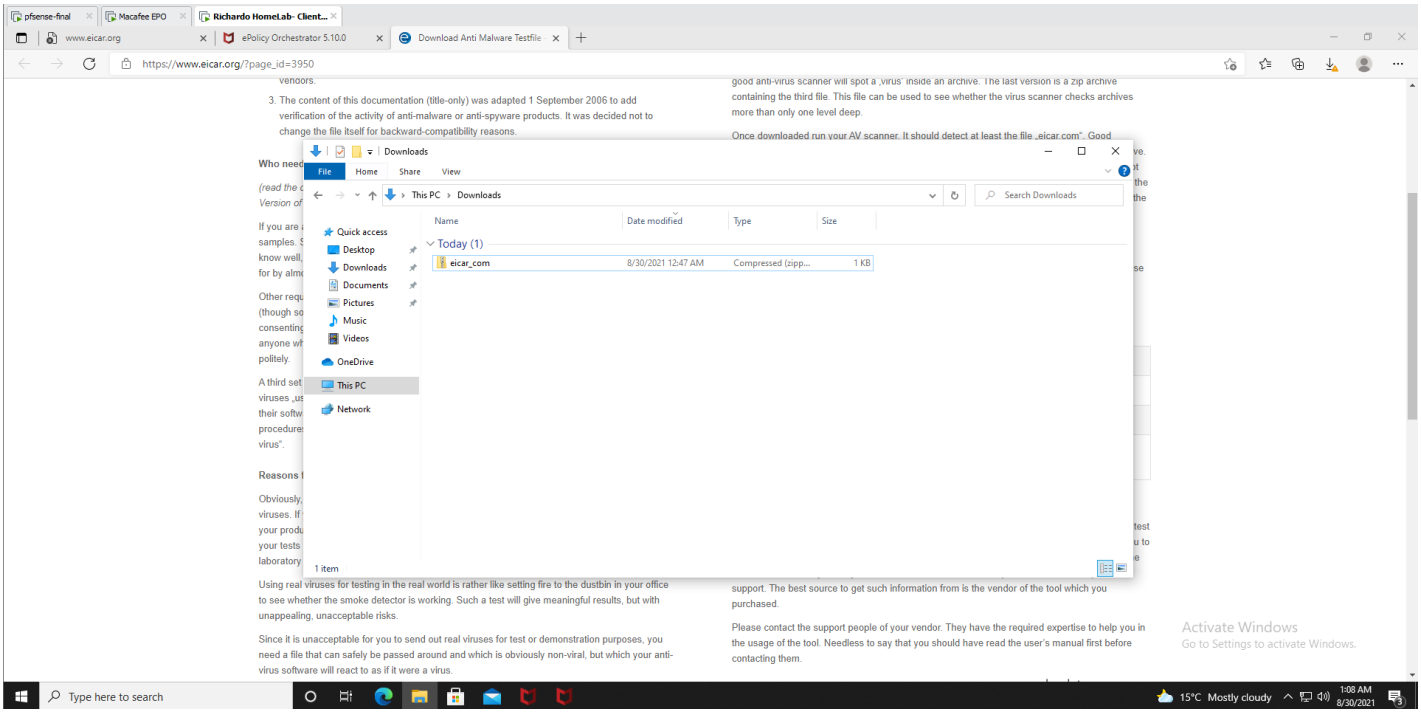


Scheduling an-demand Scan using Macafee on my Endpoint. A full scan will be scheduled to be conducted at 8:30 am every week.

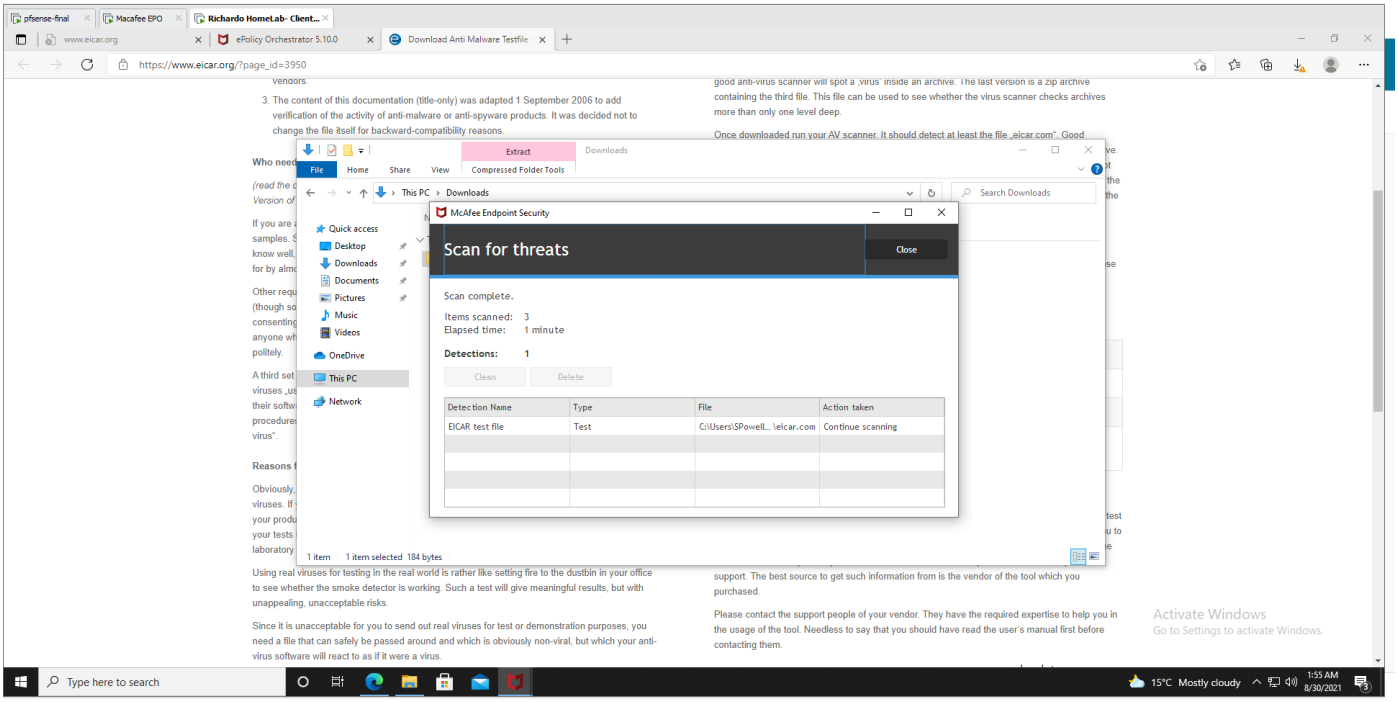
Macafee Endpoints



The Macafee Endpoint detected a downloaded malicious file and taken action to delete it.

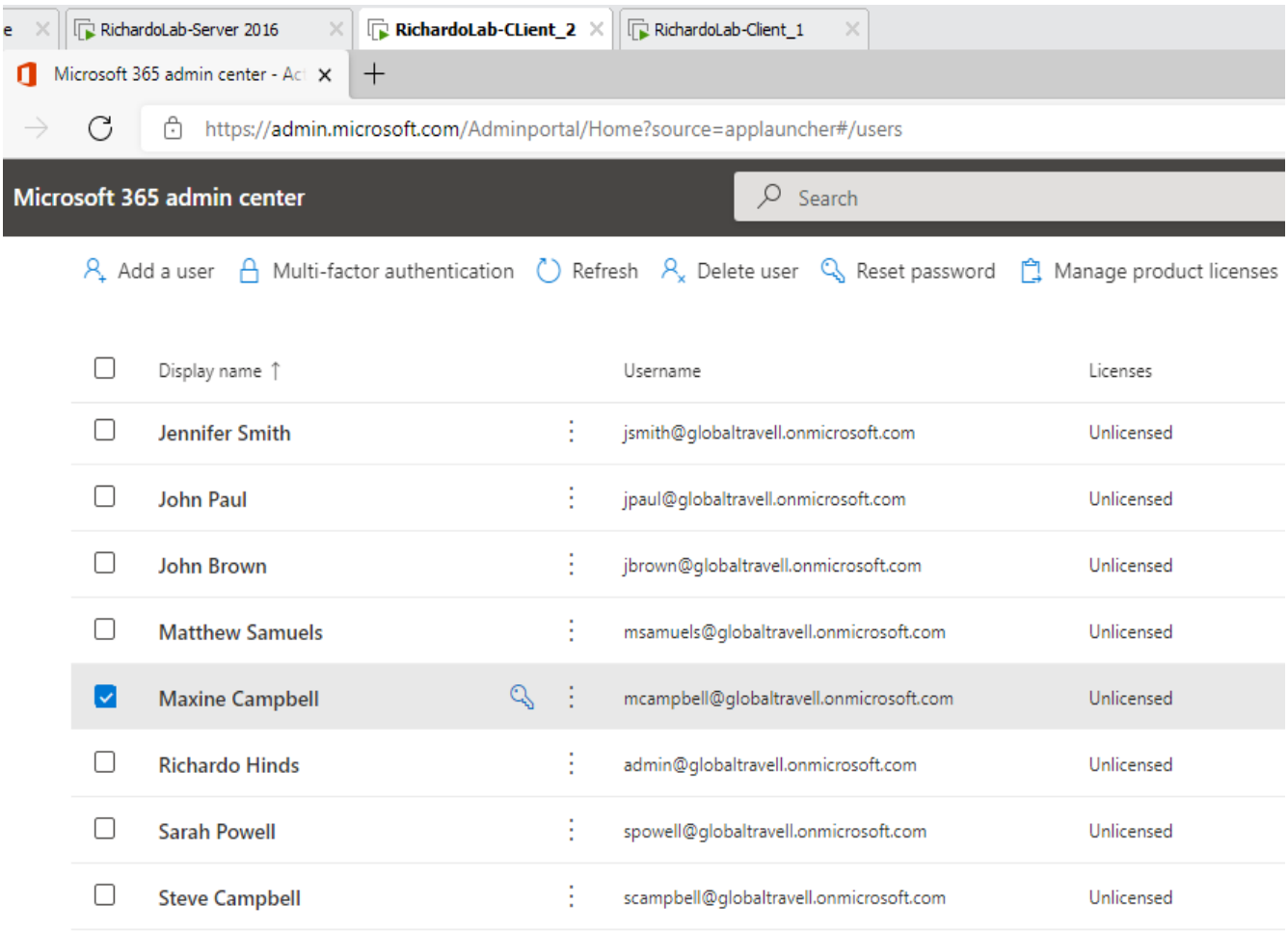


A folder was copied to an endpoint

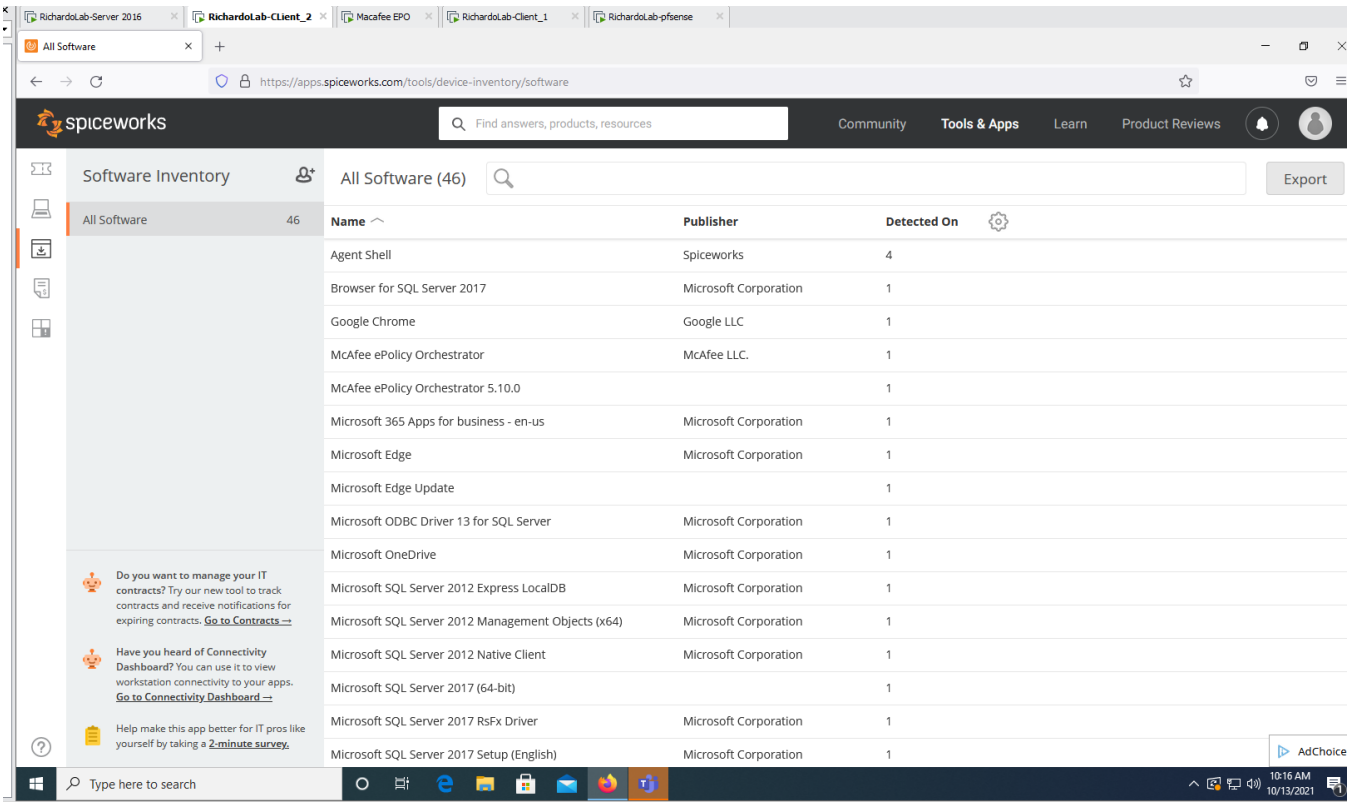


Macafee Endpoint protection was able to flag the above folder as threat.

Microsoft 365

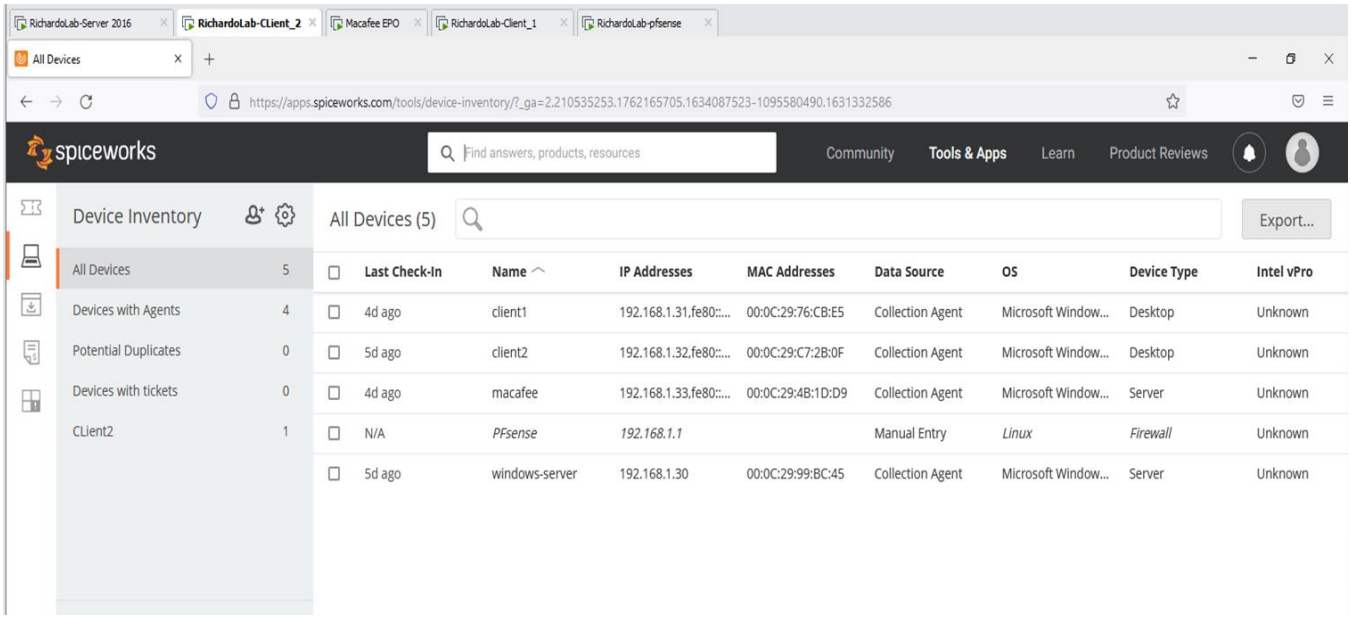


Software Inventory Using Spiceworks

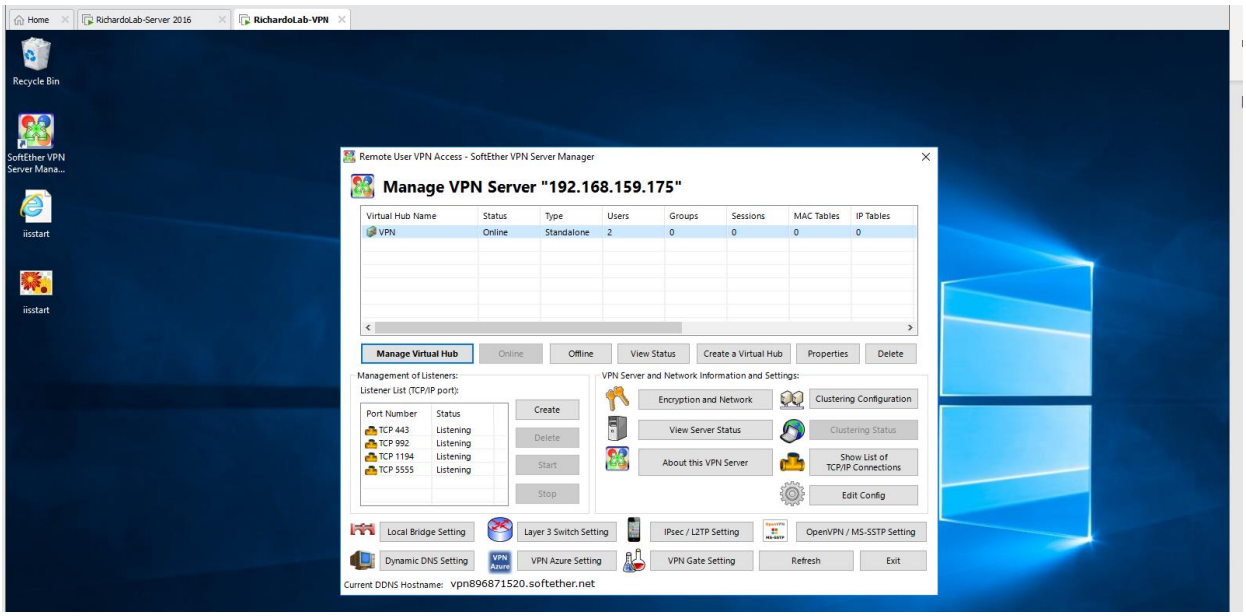


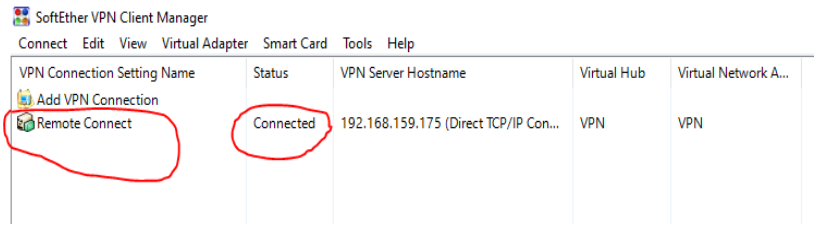
Microsoft Visual C++ 2019 X64 Minimum Runtime - 14.20.27508	Microsoft Corporation	3
Microsoft Visual C++ 2019 X86 Additional Runtime - 14.20.27508	Microsoft Corporation	3
Microsoft Visual C++ 2019 X86 Minimum Runtime - 14.20.27508	Microsoft Corporation	3
Microsoft VSS Writer for SQL Server 2017	Microsoft Corporation	1
Mozilla Firefox (x64 en-CA)	Mozilla	1
Mozilla Maintenance Service	Mozilla	1
SQL Server 2017 Batch Parser	Microsoft Corporation	1
SQL Server 2017 Common Files	Microsoft Corporation	1
SQL Server 2017 Connection Info	Microsoft Corporation	1
SQL Server 2017 Database Engine Services	Microsoft Corporation	1
SQL Server 2017 Database Engine Shared	Microsoft Corporation	1
SQL Server 2017 DMF	Microsoft Corporation	1
SQL Server 2017 Shared Management Objects	Microsoft Corporation	1
SQL Server 2017 Shared Management Objects Extensions	Microsoft Corporation	1
SQL Server 2017 SQL Diagnostics	Microsoft Corporation	1
SQL Server 2017 XEvent	Microsoft Corporation	1
Veeam Agent for Microsoft Windows	Veeam Software Group GmbH	1
VMware Tools	VMware, Inc.	3

Inventory Management - Spiceworks

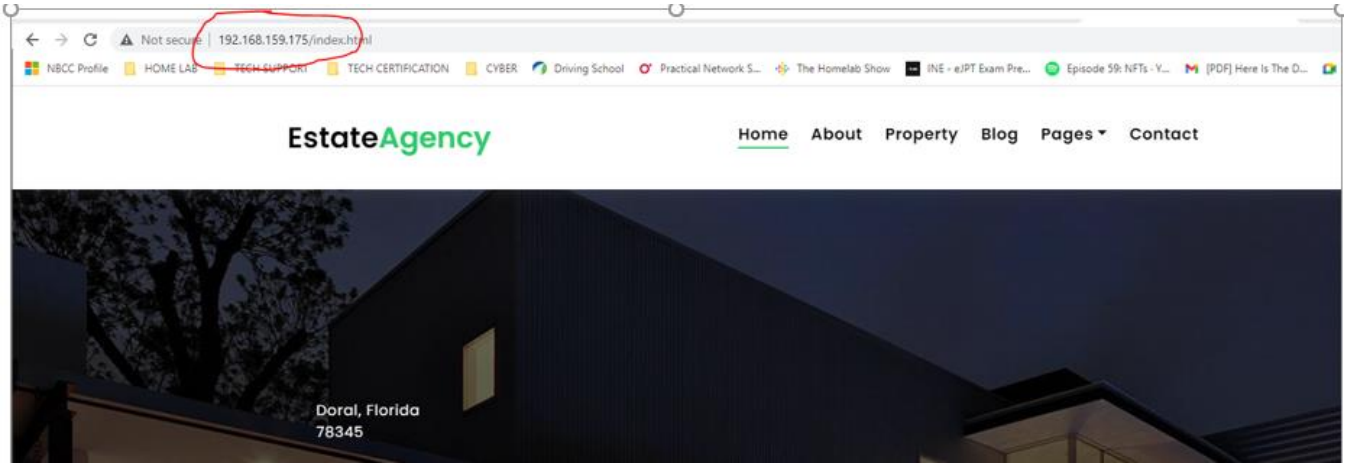


VPN – Remote Access





Setup and configured Ethersoft VPN for remote access to the network. As a result, network resources can be shared to only users that the VPN Server will have to authenticate.



End user can access internal website when connected to VPN

Hosting Website on IIS Manager