

Zscaler Faculty Senate

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Agenda

- Goals and Challenges
- Zscaler Overview
- HTTP Overview
- FAQ / Q&A

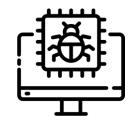
Business Aspirations



Security Challenges





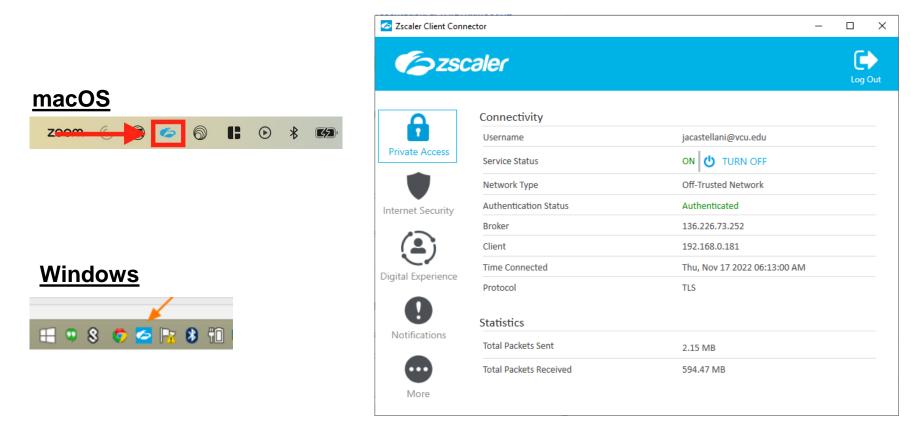






- VPN 2.0
- Security Features:
 - Firewall as a Service
 - Secure Web Gateway
 - Malware detonation chamber
 - Phishing site detection and prevention
 - Intrusion detection and prevention
 - Reverse Proxy Based always-on remote access
 - Device posture management
 - Application based access control
- Zscaler Agent Client (ZCC)
- ZScaler Internet Access and ZScaler Private Access

Zscaler Client Connector (ZCC)



Internet Access



Private Access



Consistent security policy for network and applications

Warning of potentially malicious and dangerous sites

File inspection and malware detonation

DLP capabilities

Risk-based classification of third party apps

Always-on access to internal university resources Reverse-proxy exposes access to application Device posture check

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Application health monitoring

Pre-authentication connection to internal resources

Risk-based access control

Zscaler - Warning Example



Are you sure you want to visit this site?

You tried to visit: http://pastebin.com/

Request method cautioned for category Anonymous Paste Sites

Proceeding to visit the site may be dangerous and/or may violate VCU's Computer and Network Resource Use policy. Press the "Continue" button to access the site anyway or press the "Back" button on your browser to go back

Continue

See our internet use policy.

Need help? Contact our support team at +1 (804) 828 - 2227, itsupport@vcu.edu

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Zscaler - Block Example



Ø We found a security threat.

The site you are trying to visit is not permitted. If you believe this site is blocked in error, then please contact the VCU IT Support Center at (804) 828-2227 or itsupport@vcu.edu

You tried to visit: http://example.com

Threat found:Virus

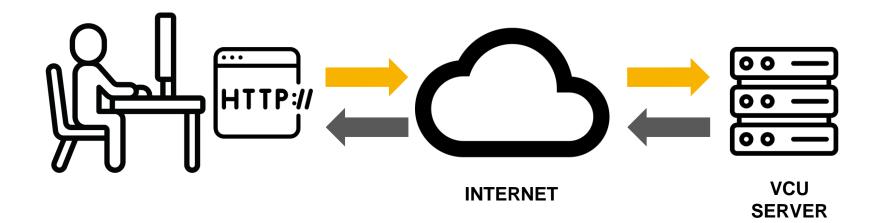
Click to request security review.

See our Internet use policy.

Need help? Contact our support team at +1 (804) 828 - 2227, itsupport@vcu.edu

How Does Zscaler Work?

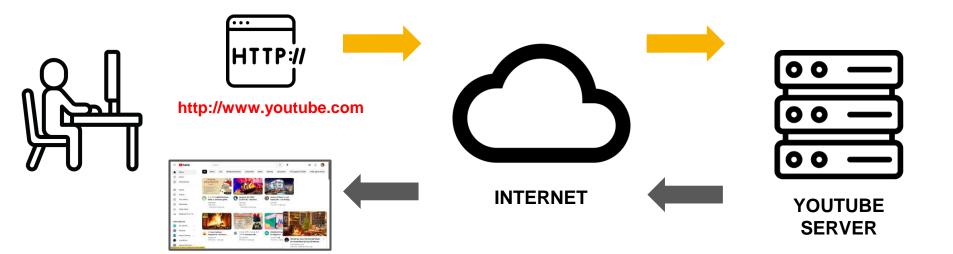
HTTP Overview



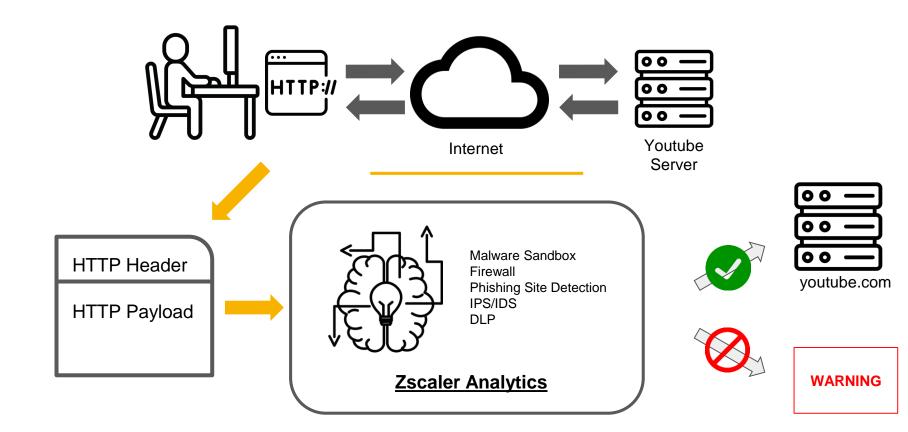
HTTP (Hyper-Text Transfer Protocol)

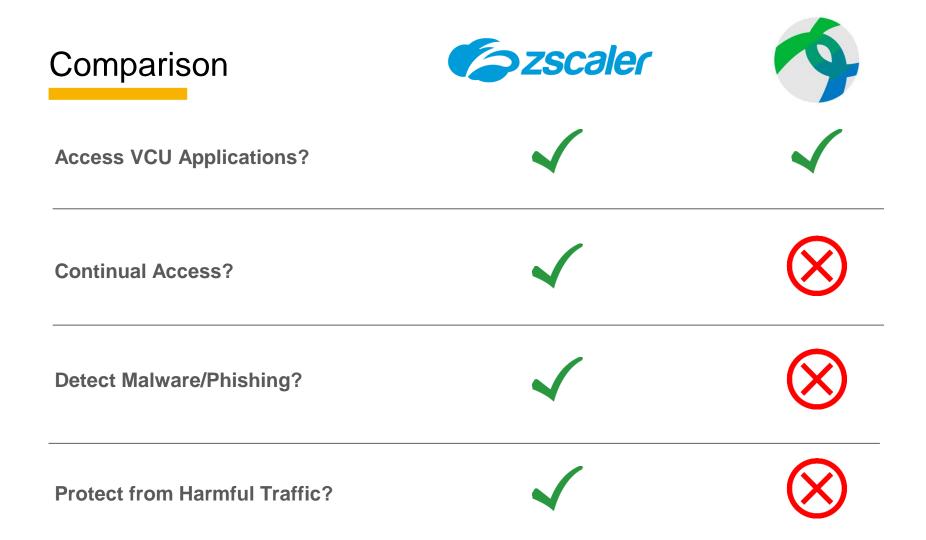
• How our computers request and load websites





How It Works with Zscaler

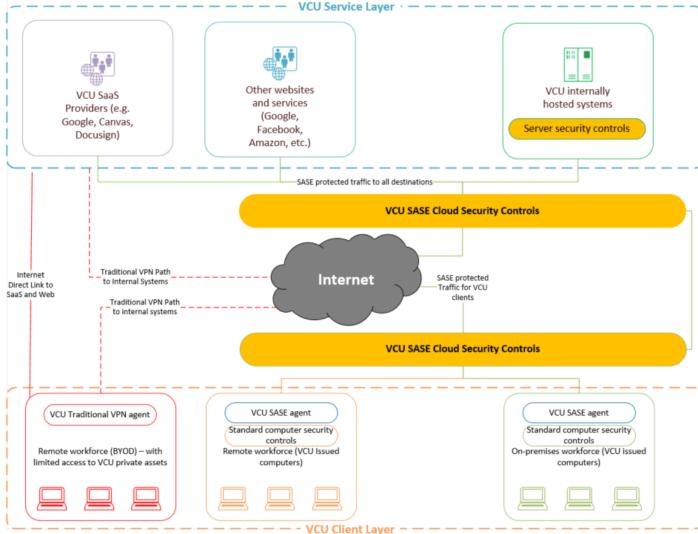








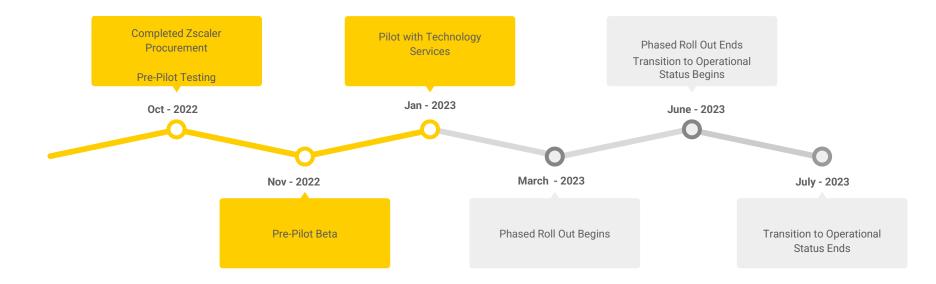






- Currently working with the vendor in designing and implementing the solution in our environment.
- Engaging all schools, colleges, and units in helping us test both the Internet protection and private access aspects.
- Need to build out access rules for private assets (e.g., SSH to a server, printing system, other unique access to assets).

Tentative Project Timeline



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Who is it intended for?

VCU Employees, Student Workers, Graduate Assistants, and Affiliates

What devices can install the Zscaler Application (ZCC)? VCU Managed Devices

What are the limitations of Zscaler? Server initiated connections through ZPA (e.g. Wake-on-lan) are not possible at this time.

What will students use?

Cisco AnyConnect VPN

Zscaler FAQ Con't

Will Zscaler replace Cisco Anyconnect?

No. Although in the future, sensitive applications would be limited to Zscaler.

Can I use Zscaler and Cisco Anyconnect at the same time? Yes. There are some limitations when using ZPA and Cisco Anyconnect.

Do I have to reconnect to Zscaler everyday? *No.*

What can VCU see when I use Zscaler?

While using Zscaler, VCU has access to logs and other metadata for network traffic while using Zscaler.

Q&A