Open Zone Network

Architectural Review

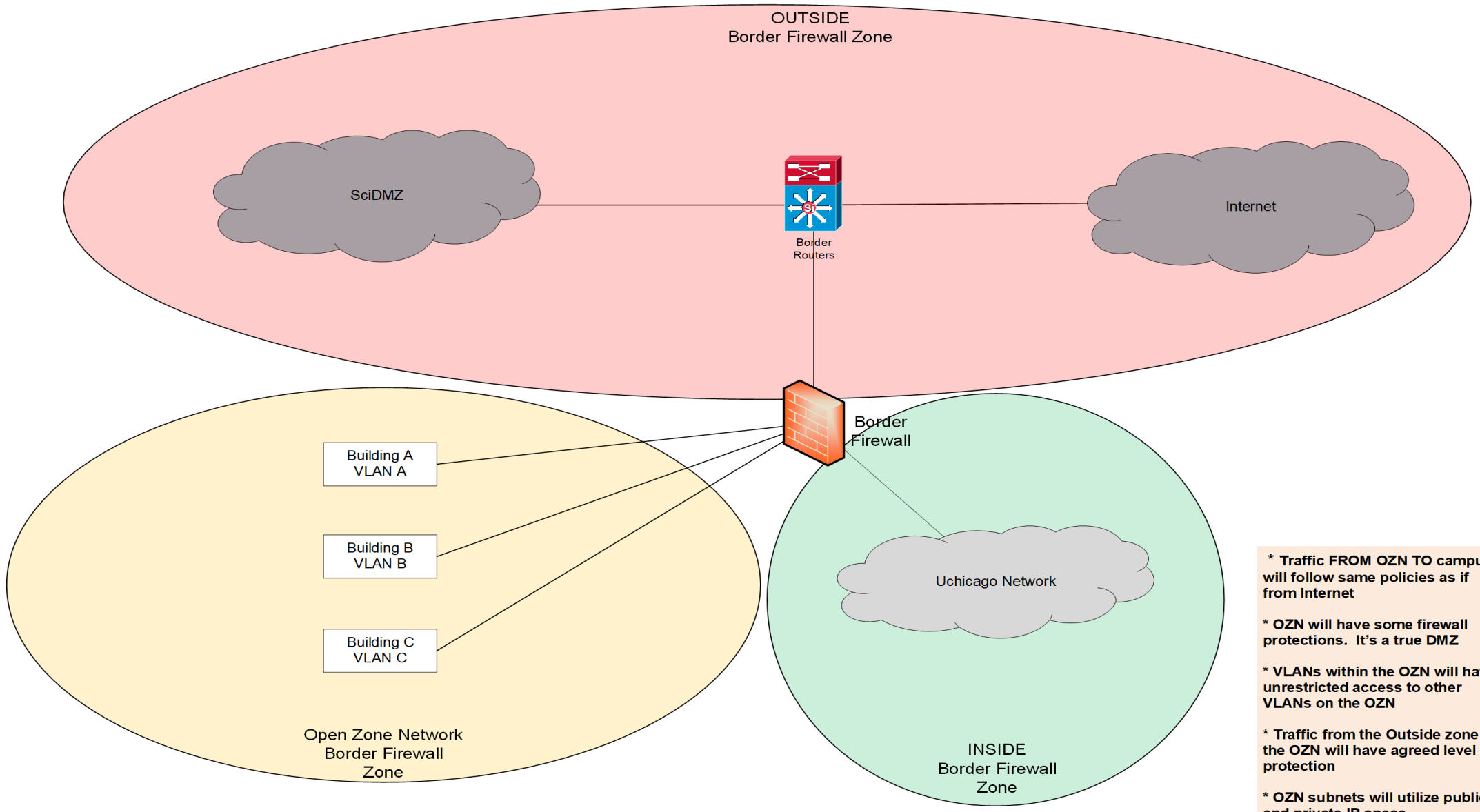
October 20, 2022

Problem Overview

- Modernized border protections were put in place
  - Faculty/Researchers have collaborative machines
    - Individuals outside the University's network require access to the machines
      - Not all of the individuals have credentials that permit VPN
    - The machines require access beyond standard "zone" access packages
      - SSH/SFTP
      - RDP
      - Etc.
    - The machines potentially increase attack vectors
    - The machines do not meet SciDMZ requirements

Logical Network Overview

Open Zone Network



*** Traffic FROM OZN TO campus will follow same policies as if from Internet**

*** OZN will have some firewall protections. It's a true DMZ**

*** VLANs within the OZN will have unrestricted access to other VLANs on the OZN**

*** Traffic from the Outside zone to the OZN will have agreed level of protection**

*** OZN subnets will utilize public and private IP space**

Open Zone Network	**Logical High Level**		Page 1 of 1	Updated by: David Jaremowicz Date: 08-24-2022	THE UNIVERSITY OF CHICAGO

Network and Security Design Notes

Open Zone Network

Network Design

- One zone on the border firewall for all OZN machines
- Building rollout will be as needed
- Onboarding will only be done after the approval process
- IP addressing – DHCP reservation, public and private subnets

Security Design

- There will be some basic protections in place for the OZN*
- Machines will have security measures in place
- There will be an onboarding approval process
- There will be connectivity requirements (similar to SciDMZ requirements)

Workflow Basics

- Detailed workflow will be available prior to rollout
- Request process starts with submitting onboarding packet to IT Security
- IT Security reviews request, approves, passes request to Networking
- Networking configures OZN VLAN in building if not pre-existing
- Networking assigns machine IP in OZN building subnet.
- Networking configures the machine's switch port with OZN VLAN

Additional Information Discussion

Open Zone Network

Questions?