KSU -Grant 19533 - Details

KENT Stark

Cisco 2960S Building A   Cisco 2960S Building B   Cisco 2960S Building C

Legacy AP

AP Wifi-6 802.11ax

Stark Campus has 200 AP's

Regional Stark Cisco ISR4431

KENT

Kent Campus, has over 4,000 AP's

AP Wifi-6 802.11ax

Cisco 2960S Building A

Cisco 2960S Building B

Legacy AP

2Gb/s   2Gb/s

KSU Border Router Cisco ASR

Fortinet Firewall

20Gb/s

20Gb/s

20Gb/s

Campus Core and Distribution Juniper 9208

OarNet

OarNet Network

200Gb/s

OarNet DWM

Campus OarNet DWM

KSU DTN

Expandable Ceph Cluster
Expandable PCIe & SAS

Researcher

100Gb/s

I2 Traffic only

100Gb/s

Arista 7600 Building C DMZ

1 PowerEdge R740XD
2 PowerEdge R640

Netwok

Part of this Design includes a partnership with OarNet to develop a best practice design.

A DTN best practice, is to extend layer 2 as far as possible.KSU has it own IP4 and IPV6 space.

The current plan is to have OarNet do the routing and supply us with a vlan that will allow us to Dual Stack the DTN node IP4/IPV6.

Security & Access

KSU follows best practices in locking down and securing network devices.
KSU automated ticketing system, will allow a researcher to open up a ticket specifying source, destination, protocol and duration of connection. Security Group approves request and Ansible will configure the switch ACL's automatically.