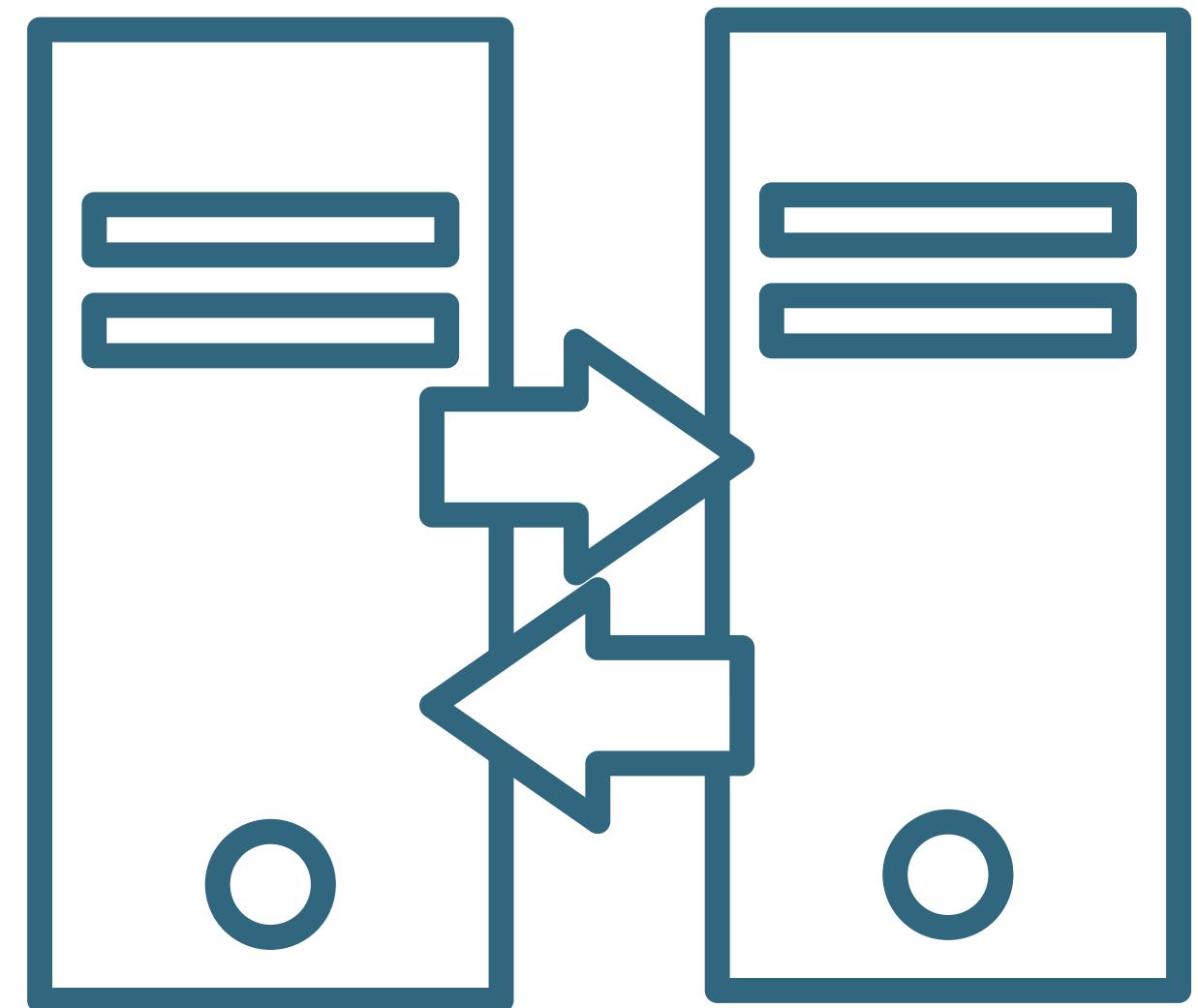


GNS3 FORTIGATE

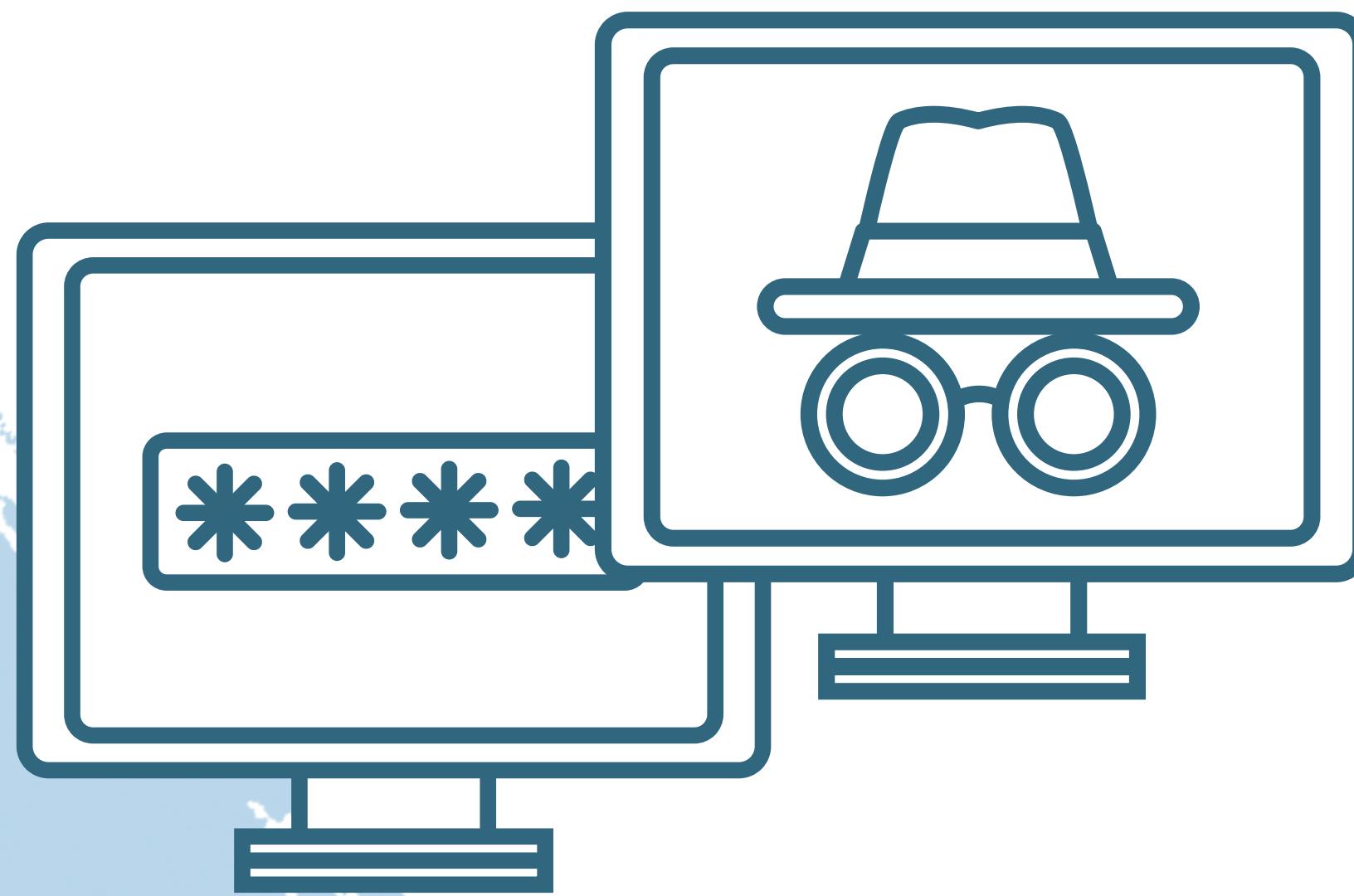


PROJECT OVERVIEW

- The goal was to build a secure segmented network for HR and IT.
- Tools used: GNS3, FortiGate, L3 Switch, Router, Endpoints



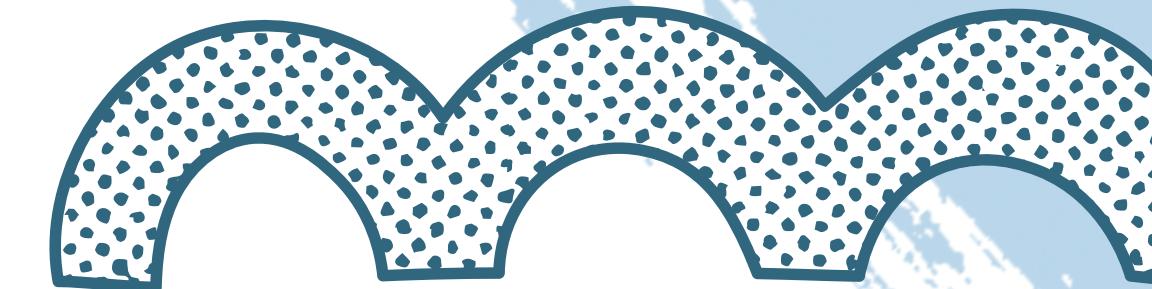
PROJECT FLOW



- Installation
- Topology
- VLAN Setup
- FortiGate
- Policies
- Testing

INSTALLATION

- Install GNS3
- Import ISOs
- Access via CLI and GUI



NETWORK TOPOLOGY

- FortiGate as firewall
- L3 switch for VLANs
- Router branch link
- Endpoints (HR, IT)



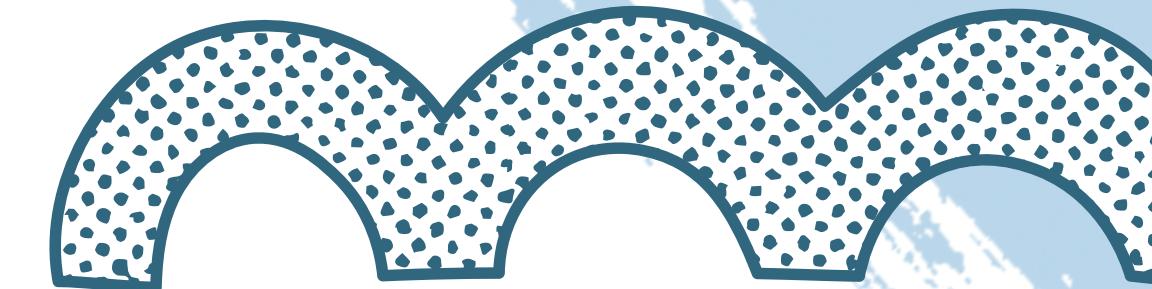
VLAN SETUP



- Create VLANs
- Assign Ports
- Set Trunk
- Configure SVIs
- DHCP Setup

FORTIGATE INTEGRATION

- Trunk on port3
- Sub-interfaces
- Address Objects
- Router Link on port4 (other branch)
- WAN on port2



FIREWALL POLICIES

- Inter-VLAN Rules
- Internet Access
- Router Tests
- NAT Pool



TESTING & TROUBLESHOOTING



- Ping Tests
- Routing Fix
- NAT Correction

RESULTS & FUTURE WORK

- Segmentation Complete
- Security Improved
- Future Upgrades





THANKS

