SOUL KATANA

IKBN Jitra Network Upgrade

Report Period of 26/04/2022 - 31/05/2022

Date	Description
26/04/2022	Being informed about project award by turnkey. Proceed with hardware
	sourcing/acquisition.
27/04/2022	Supplier returned back and informed about world-wide shortage on the item being
	earlier quoted. Finally sourced for TP-Link that have same capacity of deliverables:
	- Core Switch TL-SX3016F
	- Management Switch TL-SG3428X
29/04/2022	Retrieve a site/floor HPE switch (model JE068A - A5120-24G) from project site
	(Bengkel Automotif) for the purpose of sampling upgrading workflow:
	- to reset current configuration
	- to configure interfaces and VLAN
	- to save configuration as template
30/04/2022	Learned that the floor/site switch that was brought back is faulty. Some of the cooling
	fans (there're 4 of them) working intermittently. Informed site owner about it. Sourced

g ed fans (there're 4 of them) working intermittently. Informed site owner about it. Sour for replacement fan. Specs of the following:

- Size: 40x40x20mm
- Connector: 3 Pin
- Power: 12V 0.15A
- Rate: 8200RPM

01/05/2022 Contacted Mr Azmi from GiTN in order to retrieve the delegated subnet from their network.

- Network Number 10.140.128.0
- Subnet Mask 255.255.248.0
- GiTN Router IP Address 10.140.128.6/27
- IKBN Router IP Address 10.140.128.2/27



Date Description

03/05/2022 Prepare a small server for the purpose of installing and configuring the following:

- Ubiquiti Controller

- TP-Link Omada Controller

08/05/2022 Came up with a high level network diagram to finally determine the following:

- Specs of connectors - SFP/SFP+

- Specs of Switches

- Final VLAN configurations with concerning subnets

09/05/2022 The following is the determined design as of date:

10.140.129.0/25 - Admin - VLAN 11 10.140.129.128/25 - HEP - VLAN 12 10.140.130.0/26 - Elektrikal - VLAN 13 10.140.130.64/26 - Automotif - VLAN 14 10.140.130.128/26 - Mekanikal - VLAN 15 10.140.130.192/27 - Tekstil - VLAN 16 10.140.130.224/27 - Lukisan - VLAN 17

10.140.132.0/25 - Lab HEP - VLAN 21 10.140.131.0/24 - Lab Lukisan - VLAN 22 10.140.132.128/25 - Lab Elektrikal - VLAN 23 10.140.133.0/25 - Lab Mekanikal - VLAN 24 10.140.133.128/25 - Lab Auto - VLAN 25 10.140.134.0/25 - Lab Tekstil - VLAN 26

172.16.125.0/24 - WIFI Tetamu - VLAN 31 172.16.132.0/22 - WIFI Staff - VLAN 32 172.16.128.0/22 - WIFI Pelajar - VLAN 33



Date Description

10/05/2022 Brought the following to project site:

- Controller Server
- HPE5120-24G for workflow samping
- Firewall

Did not manage to do anything since maintenance is attending air-conditioning problem. Visit again day after.

- 11/05/2022 Reset HPE switches at Mechanical Department.
 - IKBN-MEKANIKAL-01
 - IKBN-MEKANIKAL-02
 - IKBN-MEKANIKAL-03
 - IKBN-MEKANIKAL-04

Reset Cisco switch and leave it be as default as the uplink port being untagged VLAN 23 (Lab Elektrikal).

Whilst at the department, found a pair of Ubiquiti US-8-150W and UAC-AP-HD. Reset both switch the AP and and configured to join the network. Can find the configured devices at Ubiquiti configured https://172.16.126.2:8443

12/05/2022 Reset HPE switches at the rest of any other departments:

- IKBN-ELEKTRIKAL-01
- IKBN-ELEKTRIKAL-02
- IKBN-ELEKTRIKAL-03





Date Description

13/05/2022 Reset HPE switches at the rest of any other departments:

- IKBN-HEP-01
- IKBN-HEP-02

- IKBN-HEP-03 (Cisco reset as default, uplink port being untagged VLAN 12)

- IKBN-HEP-04
- IKBN-HEP-05
- IKBN-AUTOMOTIF-01
- IKBN-MOTOR-01
- IKBN-JAHITAN-01

Whilst at Automotive department, found Ubiquiti UAC-AP-PRO. Reset the AP and and configured to join the network.

14/05/2022 Reset HPE switches at the rest of any other departments:

- IKBN-ASRAMA-01

- IKBN-TEKSTIL-01

- IKBN-MOTOR-01

Whilst at the hostel and Textile department, found a pair of Ubiquiti US-8-150W and UAC-AP-HD each at both locations. Reset both switch the AP and and configured to join the network. Can find the configured devices at Ubiquiti configured https://172.16.126.2:8443

15/05/2022 Revisit Mechanical Department

- reconfigure WIFI bridge from Mechanical Department to Dewan Baru

- reconfigure Ubiquiti UAP-AC-HD to join the network. Device discoverable in Ubiquiti Controller at https://172.16.126.2:8443

19/05/2022 Credentials as follows:

TM UNIFI







Firewall

host: 172.16.126.1 username: admin password: @adminIKBN123

Ubiquiti Controller

host: 172.16.126.2:8443 username: admin

Omada Controller

password: admin123

host: 172.16.126.2:8443 username: admin password: admin123

HPE Switches:

host: respective IPs / port 80 (please refer to diagram) username: admin password: ikbn1234

WIFI

T: +60 4736 4736 E: info@aloqstaq.com W: www.aloqstaq.com I: aloqstaqcom







