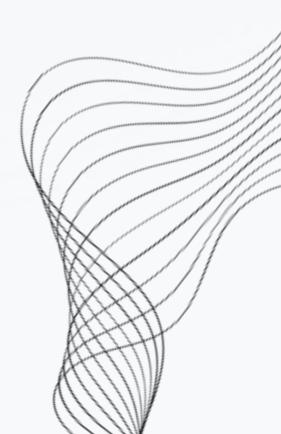
MY EXPERIENCE AT npNOG7 and SANOG39/bdNOG16

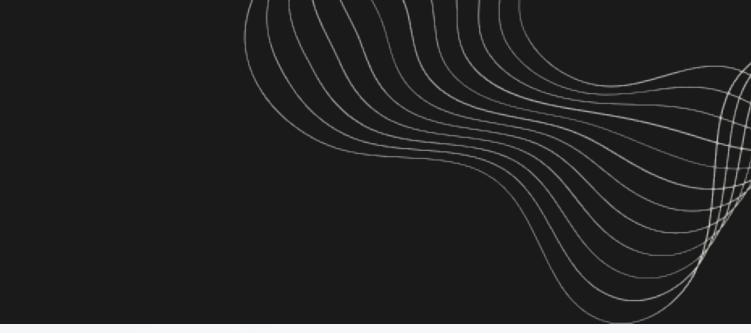


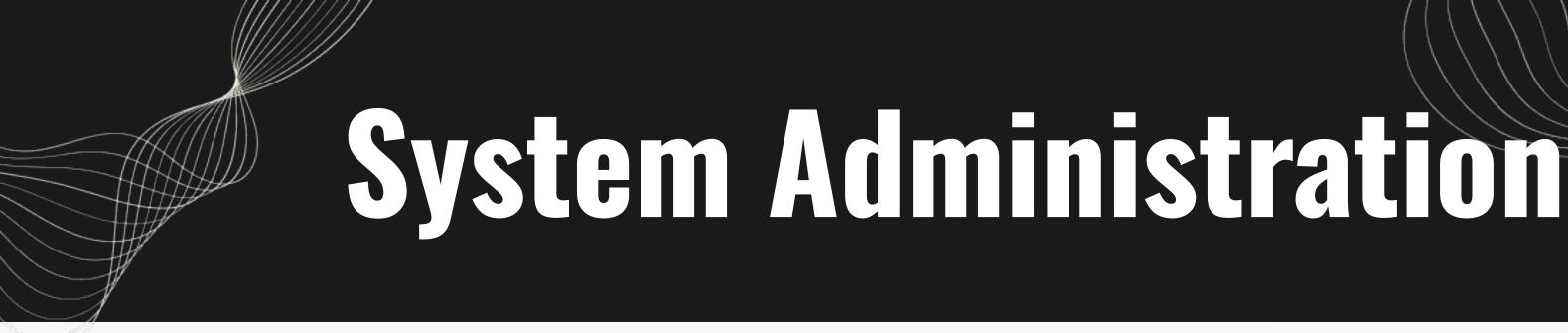
Puran Rai



npNUG7

- Network Operators Community, 7th edition
- Held on Jan 20th to 22nd, 2023 (3 days)
- At Hotel Barahi, Lakeside, Pokhara
- Tracks: Network Administration and System Administration
- System Track Instructors:
 - Chatur Shakya (PCH)
 - Rupesh Basnet (OM Network)
 - Ashish Shrestha (Sky Broadband)





What we learned?

- Efficient use of text editors
- Password less SSH
- DNS Tree Hierarchy
- Let's Encrypt
- Scripting
- System Monitoring Tools and Commands

Learning Implementations

Let's Encrypt:- Securing cacti graph website

<VirtualHost *:443>

ServerName graph.pokharainternet.com.np

DocumentRoot /var/www/html/cacti DocumentRoot /usr/share/cacti

SSLEngine on

SSLCertificateFile /etc/letsencrypt/live/graph.pokharainternet.com.np/cert.pem SSLCertificateKeyFile /etc/letsencrypt/live/graph.pokharainternet.com.np/privkey.pem SSLCertificateChainFile /etc/letsencrypt/live/graph.pokharainternet.com.np/chain.pem

<VirtualHost *:80> ServerName graph.pokharainternet.com.np Redirect permanent / https://graph.pokharainternet.com.np/ </VirtualHost> O A
[™] https://graph.pokharainternet

t.com.np	4 公
User Log	Jin
Enter your Username and Password below	8
Username Username	
Password ********* Keep me signed in	
Login	

SANOG39/bdN0G16

- Network Operators Community for South Asian Region and Bangladesh.
- 09th to 13th May, 2023 (4 days workshop & 1day conference)
- Pan Pacific (conference) and Hotel Intercontinental (workshop), Dhaka
- Hosted by ISPAB in collaboration with bdNOG.
- Tracks:
 - BGP & IPv6 Deployment
 - Network Security
 - Network Automation



- gion and Bangladesh.
- Smerence)

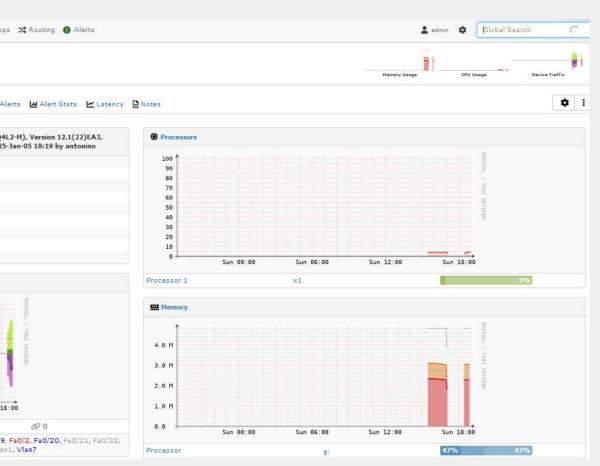
Network Security

What we learned?

- Network Security Fundamentals
- Packet Analysis
- Device & Infrastructure Security
- BGP route Leaks
- Security Operations & Monitoring
- Honeypots
- Log Management and Flow Monitoring

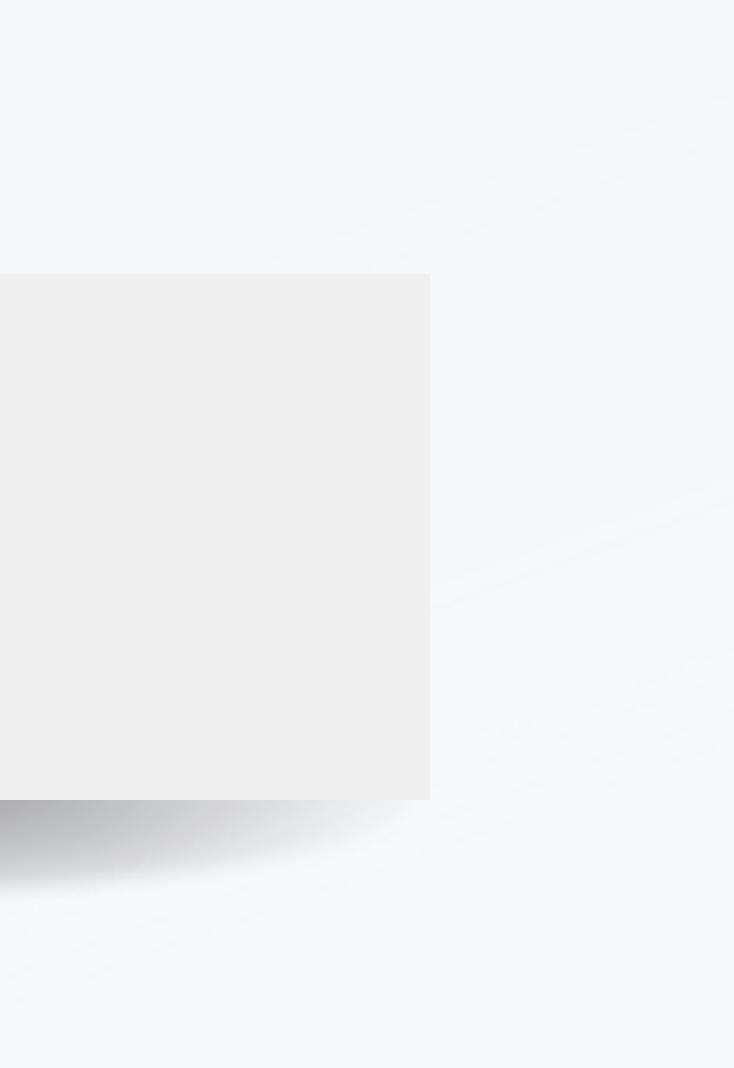
Learning Implementations

							LibreNMS A Overview Devices M Maps @ Ports & Health Apps				
								CISCO © Overview Graphs	🖗 Health 🛷 Ports 🚍 VLANs	s 📦 Inventory D	Logs 🕕 Alert
🔆 LibreNMS 🍙 Overview 🚍 Devices 🛍 Maps 🖉 Ports 😵 Health 🕿 Apps 🔀 Routing 🚯 Alerts 🔹 🛓 a								Cisco Internetwork Operating System Software IOS (tm) C2950 Software (C2950-16Q4L) RELEASE SOFTWARE (fc1) Copyright (c) 1986-2005 by cisco Systems, Inc. Compiled Tue 25-3			
								System Name	support-sw1.po	kharainternet.com.np	
								Resolved IP			
List	s: Basic I	Detail Gr	aphs: Bits CPU Load Men	nory Uptime 9	Storage Disk I/O Poll	er Ping Temperature		Hardware		(WS-C2950T-24)	
Agent					Operating System		(22)EA3 (I6Q4L2)				
								Serial	FOC0823W1NN		
								Object ID Device Added	.1.3.6.1.4.1.9.1		
								Last Discovered	3 hours 39 minutes 49 seconds ago 7 minutes 13 seconds ago		
6.0	Search All ~ All OS ~ All Versions ~ All Platforms ~ All Featuresets ~ All Locations ~ All Device Typ				Uptime	4 days 21 hours 36 minutes 26 seconds		inds			
30	anon			AII VEI SIOTIS		Air Locations	L All Device Typ		Overall Traffic		
							Up/ Down	20 M 1			
s.	Id M.	Vendor	Device	 Metrics 	Platform	Operating System	Time	10 M			
1	22		Damek-olt1	Ø 20	V4.0	cdata	2w 6d 8h				
		(ANDAMEN)	172.16.20.45	♥ 3	110	V1.5.1 200723	211 00 011	0			
											1
	5	Tan	Abcare-olt1	@ 110	P3608-2TE mother	BDCOM(tm) Software	6mos 5d	-10 M			1.1
			ab-care-olt1	* 39	card	10.1.0E Build 46085	2h				
P .	6	\$ \$\$	Amarsingh-olt1	@ 51	MA5603T	Huawei SmartAX	1mo 2w 6d	Sun	00:00 Sun 06:00	Sun 12:00	Sun 18:0
	1	HUAWEI	amarshing-olt1	S 261		MA5683V800R015C00B058	1110 211 00	@ 29	@ 13	Ø 7	
	7	ahaha	Amarsingh-sw1	Ø 27	Catalyst 2950 (WS-		1mo 2w 6d	Fa0/1, Fa0/10, Fa0/11, Fa0/12, Fa0/13, Fa0/14, Fa0/15, Fa0/16, Fa0/17, Fa0/18, Fa0/19,			
		cisco amarsing- 🐼 3 C2950-24) 12.1(19)EA1c (I6Q4L2)				2_ E V					
			sw1.pokharainternet.com.np		A CONTRACTOR OF A						
		Tim	Armala-olt1	2 400	P3608-2TE mother	BDCOM(tm) Software	36m 13s				
8	8		A STATUT OTCA	00 100		10.1.0E Build 46085	0011 100				
	8	Man	armalaolt-1	🤝 39	card	10.1.02 Daila 10000					
		Man		100 C			21.22				
	9	Van	Baghmara-olt1	@ 204	P3608-2TE mother	BDCOM(tm) Software	3h 32m				
		Vian		100 C			3h 32m 44s				



Benefits

- Networking and Collaboration
- Skill Development and Learning
- Career Growth and Recognition
- Community Building and Local Impact





Gratitude Mentions:

- Entire npNOG Committee
- SANOG Fellowship Committee
- npNOG Sponsors
- SANOG Fellowship Sponsors, esp.
 FLEXOPTIX
- SANOG Host ISPAB, bdNOG
- APNIC Foundation

