 UNIVERSITY OF Baguio SCHOOL OF INFORMATION AND TECHNOLOGY		
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Section: IDC2	DATE SUBMITTED: 09/24/2024	

SYSADM1 – Monitoring Print Services in Windows Server 2019

Requirement:

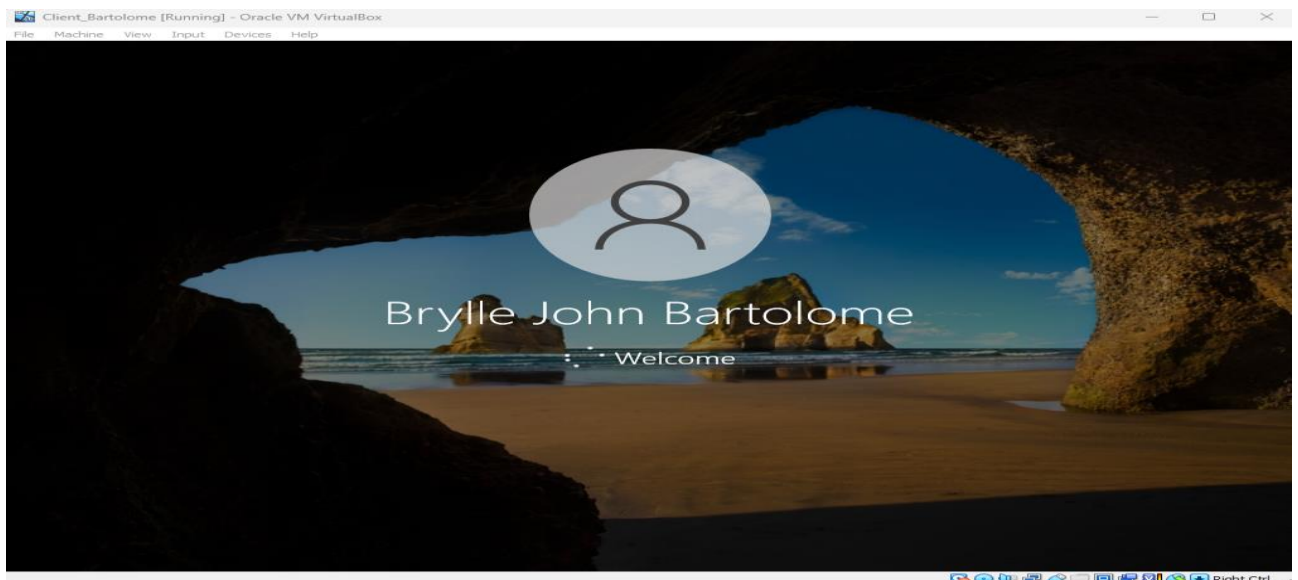
- A virtual machine running Linux and Windows OS

Part 1: Setting Up Print Services

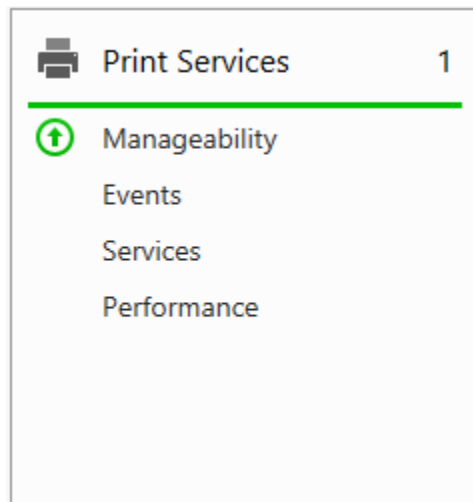
1. Install and configure **print.srv** domain

Computer name	WIN-1GQAF5DFGNG	Last installed updates	Never
Domain	print.srv	Windows Update	Not confi
		Last checked for updates	Never
Windows Firewall	Private: On	Windows Error Reporting	Off
Remote management	Enabled	Customer Experience Improvement Program	Not part
Remote Desktop	Disabled	IE Enhanced Security Configuration	On
NIC Teaming	Disabled	Time zone	(UTC-08:C
Ethernet	IPv4 address assigned by DHCP, IPv6 enabled	Product ID	Not activ
Operating system version	Microsoft Windows Server 2012 R2 Standard	Processors	12th Gen
Hardware information	innotek GmbH VirtualBox	Installed memory (RAM)	4 GB
		Total disk space	99.66 GB









2. Connect one client to the recently created domain



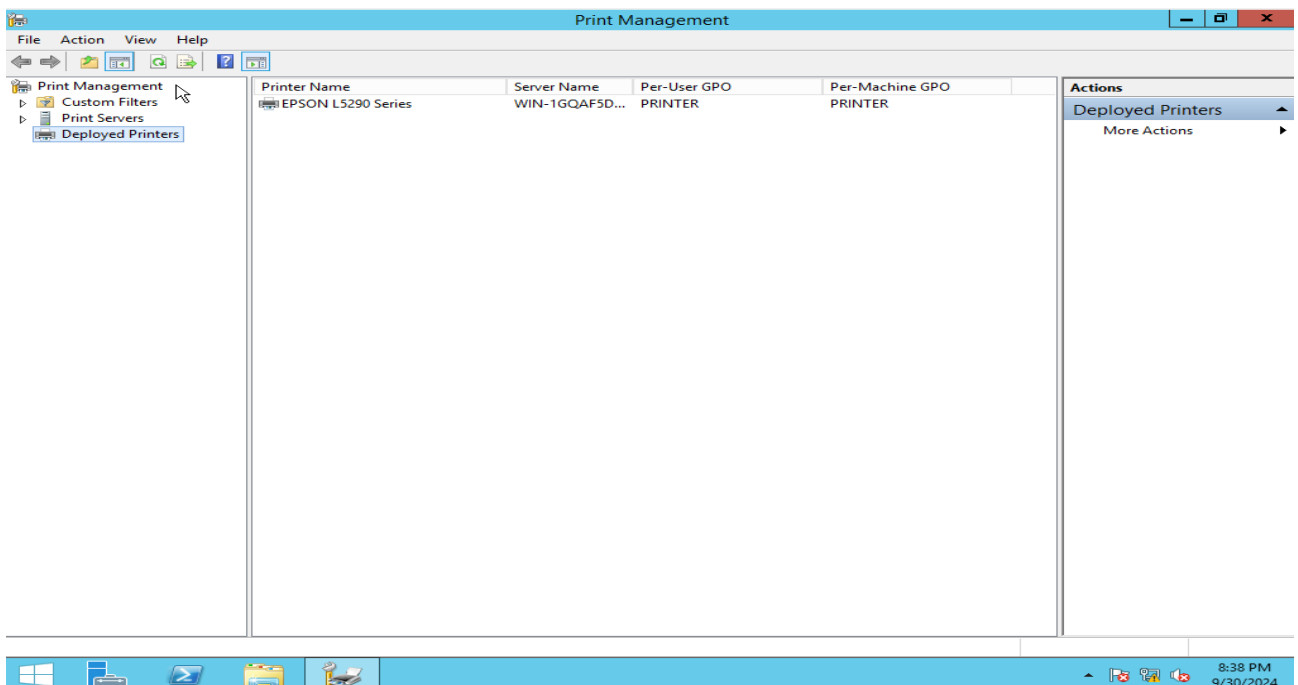
3. Install Print Services Role:



4. Search the internet for any printer installer and convert it to iso

	Canon G2000 series MP Drivers	Canon Inc.	9/30/2024
	Canon IJ Scan Utility	Canon Inc.	9/30/2024
	Canon Inkjet Printer/Scanner/Fax Extended Survey Pr...	Canon Inc.	9/30/2024
	EPSON L5290 Series Printer Uninstall	Seiko Epson Corporation	9/30/2024
	Epson Manuals	Seiko Epson Corporation	9/30/2024
	EPSON Scan OCR Component	Seiko Epson Corporation	9/30/2024
	EPSON Scan PDF Extensions	Seiko Epson Corporation	9/30/2024
	EpsonNet Print	Seiko Epson Corporation	9/30/2024

5. Install and deploy it as network printer



Part 2: Monitoring Print Services

Objective: Familiarize yourself with monitoring tools available in Windows Server 2019.

1. Event Viewer:

- Open Event Viewer (run eventvwr.msc).
- Navigate to Applications and Services Logs > Microsoft > Windows > PrintService.
- Review logs for print jobs, errors, and warnings.

2. Performance Monitor:

- Open Performance Monitor (run perfmon).
- In the left pane, expand Data Collector Sets > System.
- Right-click System Performance and select Start.
- Monitor performance metrics related to print services.

3. Using Print Management Console:

- Open Print Management from Server Manager.
- View active print jobs and their status.
- Use the Printers node to check the status of all printers.

Part 3: Exploring Third-Party Monitoring Tools

1. Research at least two third-party print monitoring tools

- Consider factors such as features, pricing, and compatibility with Windows Server 2019.

2. Install and Configure:

- Choose one of the tools to install in your environment.
- Follow the installation instructions provided by the tool's documentation.
- Configure it to monitor your print services.

3. Test and Report Findings:

- Generate a report or dashboard from the tool.
- Analyze the collected data (e.g., print volume, errors, user activity).

Rubric

Criteria	1 (Unsatisfactory)	2 (Needs Improvement)	3 (Satisfactory)	4 (Good)	5 (Excellent)	Score
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Part 1: Setting Up Print Services

Domain Installation	No domain created	Domain created with errors	Domain created correctly	Domain configured well	Domain configured and documented thoroughly
Client Connection	Client not connected	Connection attempt failed	Client connected but with issues	Client connected correctly	Client connected and documented well

Print Services Role Installation	Role not installed	Role installed with issues	Role installed correctly	Role installed and configured	Role installed, configured, and documented thoroughly
Printer Installer Conversion	No installer found	Installer conversion attempted but failed	Installer converted but not used	Installer converted and used	Installer converted, used, and documented well
Network Printer Deployment	Printer not deployed	Deployment failed	Printer deployed but not functional	Printer deployed correctly	Printer deployed, tested, and documented well

Part 2: Monitoring Print Services

Event Viewer Usage	Event Viewer not opened	Opened but no logs reviewed	Logs reviewed but superficial	Logs reviewed with some analysis	Logs reviewed with thorough analysis and documentation
Performance Monitor Usage	Performance Monitor not opened	Opened but no metrics monitored	Metrics monitored but not analyzed	Metrics monitored with some analysis	Metrics monitored, analyzed, and documented thoroughly
Print Management Console Usage	Console not opened	Opened but functionality not used	Active jobs viewed superficially	Active jobs viewed with some detail	Active jobs viewed and documented thoroughly

Part 3: Exploring Third-Party Tools

Research on Tools	No tools researched	Research incomplete	Research on one tool completed	Research on two tools with some analysis	Research on two tools, detailed analysis, and comparison
Installation and Configuration	Tool not installed	Installation failed	Tool installed but not configured	Tool installed and configured with issues	Tool installed, configured, and documented thoroughly
Reporting Findings	No report generated	Report lacks detail	Report generated but lacks analysis	Report generated with some analysis	Comprehensive report with thorough analysis and documentation