Lampiran Hasil Pengujian Modul 7.4.7 Di Proxmox

- 🕙 Menu
- 1. Jalankan Devasc Virtual Machine.

2. Jalankan CSR1000v Virtual Machine

Membuka directory ansible di visual studio code, Bukalah pada direktori devasc/labs/devnet-src/ansible/ansible-csr1000v, lalu pilih open 🔹 QEMU (DEVASC) - noVNC - Mozilla Firefo

0	8	https:// 192.168. 1	1.10:80	006/?console=k	/m&nov	/nc=18zvmid=	101&vmn	ame=DE	VASC&node	=server&resize	=off8	kcmc
in	stall_	apache_optio	ns_pl	aybook.yaml -	ansible	e - Visual Stu	dio Code					
		Selection V Open File										
ը		Recent		▲ devas	c labs	devnet-src	ansible	ansible	e-csr1000v	Þ	ons	pl
		Home		Name				^	Size	Modified	0-	.1.2
5		Documents		ansible.cf	g linfo yr	nl			39 bytes	23 Apr 2020		la
	10	Downloads		hosts					0 bytes	2 Jun 2020		
្រ	5 🖾	Filesyste		servers					51 bytes	23 Apr 2020	en	t
0		efi										
1	+	Other Locatio	ns									
2												
-	r i										f	re

3. Edit file ansiblem pada file hosts akan di isikan username dan password serta IP Address pada CSR1kv.



4. menampilkan versi ansible



5. Menampilkan file bawaan ansible.cfg

devasc@labvm: ~/labs/devnet-src/ansible								
File Edit View Search Terminal Help								
devasc@labvm:-/labs/devnet-src/ansible\$ cat /etc/ansible/ansible.cfg more # config file for ansible https://ansible.com/ # ====================================								
<pre># nearly all parameters can be overridden in ansible-playbook # or with command line flags. ansible will read ANSIBLE_CONFIG, # ansible.cfg in the current working directory, .ansible.cfg in # the home directory or /etc/ansible/ansible.cfg, whichever it # finds first</pre>								
[defaults]								
# some basic default values								
<pre>Inventory = /etc/ansible/hosts ibrary = /usr/share/my_modules/ module_utils = /usr/share/my_module_utils/ #remote_tmp = ~/.ansible/tmp #local_tmp = ~/.ansible/tmp #forks = 5 #poll_interval = 15 #sudo_user = root #ask_sudo_pass = True #ask_pass = True #ask_pass = True </pre>								
#transport = smart #remote_port = 22 #module_lang = C #module_set_locale = False								
Membuka directory ansible-csr1000v								
devasc@labvm:~/labs/devnet-src/ansible \$ cd ansible-csr1000v/ devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v \$								
🙆 Menu 🚺 hosts - ansi ke - Visual 🖭 devasc@labvm: ~/labs								

7. Membuka file ansible.cfg

6.

devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$ cat ansible.cfg
Add to this file for the Ansible lab
devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$
③ Menu hosts-ansible-Visual...
 devasc@labvm:~/labs...

8. edit file ansible.cfg Masuk pada directory /ansible-csr1000v/ansible.cfg pada Visual Studio Code, Gunakan script ini pada file ansible.cfg



9. Menggunakan ansible sabgai konfigurasi cadangan, pertama membuat ansible playbook dengan nama backup_cisco_router_playbook.yaml



10. Jalankan CSR1000v VM, lakukan ping ke CSR1000v VM untuk menghetikan ping tekan CTRL+ C

	devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$ ping 192.168.1.14
	PING 192.168.1.14 (192.168.1.14) 56(84) bytes of data.
	4 bytes from 192.168.1.14: icmp_seq=1 ttl=255 time=3.63 ms
	4 bytes from 192.168.1.14: icmp_seq=2 ttl=255 time=0.663 ms
	54 bytes from 192.168.1.14: icmp_seq=3 ttl=255 time=0.601 ms
	54 bytes from 192.168.1.14: icmp_seq=4 ttl=255 time=0.669 ms
	54 bytes from 192.168.1.14: icmp_seq=5 ttl=255 time=0.520 ms
	54 bytes from 192.168.1.14: icmp_seq=6 ttl=255 time=0.694 ms
	54 bytes from 192.168.1.14: icmp_seq=7 ttl=255 time=0.604 ms
	54 bytes from 192.168.1.14: icmp_seq=8 ttl=255 time=0.657 ms
1	54 bytes from 192.168.1.14: icmp_seq=9 ttl=255 time=0.633 ms
	54 bytes from 192.168.1.14: icmp_seq=10 ttl=255 time=0.641 ms
	54 bytes from 192.168.1.14: icmp_seq=11 ttl=255 time=0.569 ms
	54 bytes from 192.168.1.14: icmp_seq=12 ttl=255 time=0.710 ms
	[•] C
-	192.168.1.14 ping statistics
	2 packets transmitted, 12 received, 0% packet loss, time 11226ms
	tt min/avg/max/mdev = 0.520/0.882/3.633/0.830 ms
	evasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$
	🎯 Menu 🔄 刘 backup_cisco_router 🖭 devasc@labvm: ~/labs 🚞 ansible

11. buat file baru dengan nama backups ditempatkan pada directory dimana menyimpan backups

devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$ mkdir backups

12. menjalankan file ansible playbook backup cisco router playbook

5		1	2	1		1 2	
devasc@labvm:~/labs/d	evnet-src/ansible	/ansible-c	sr1000v\$ ansible	e-playbook ba	ckup_cisco_rou	ter_playbook.	yaml
PLAY [AUTOMATIC BACKU	P OF RUNNING-CONF	IG] *****		********		******	******
TASK [DISPLAYING THE bk: [CSR1kv]	RUNNING-CONFIG] *	********	******	*******		*********	******
TASK [SAVE OUTPUT TO changed: [CSR1kv]	./backups/] *****	*******				*********	******
LAY RECAP ********		*******				*********	*******
CSR1kv =0			unreachable=0	failed=0	skipped=0	rescued=0	ignored
devasc@labvm:~/labs/d			sr1000v\$				
🚳 Menu 🔄 📢 backup_cisc	o_router 🖻 deva	sc@labvm: ~/	labs 🗎 [ansible]		k		

13. memastikan backup file sudah dibuat



14. membuat ansible sebagai konfigurasi device, buka file hosts



15. membuat playbook baru, membuat file baru di ansible-csr1000v dengan nama cisco_router_ipv6_config_playbook.yaml

! bac	kup_cisco_router_playbook.yaml / cisco_router_ipv6_config_playbook.yaml × [] …									
ansible-c	sr1000v > ! cisco_router_ipv6_config_playbook.yaml									
	- name: CONFIGURE IPv6									
	hosts: CSR1kv									
	gather_facts: false									
	connection: local									
	tasks:									
	- name: SET IPv6 ADDRESS									
	ios_config:									
	<pre>parents: "interface GigabitEthernet1"</pre>									
10	lines:									
11	- description IPv6 ADDRESS									
12	- IPv6 address 2001:DB8:ACAD:1::1/64									
13	- IPV6 address FE80::1:1 link-local									
14										
15	- name: DISPLAYING THE RUNNING-CONFIG									
16	ios_command:									
17	commands:									
18	- show running-config									
19	register: config									
20										
21	- name: SAVE OUTPUT TO ./ios_configurations/									
22	copy:									
23	<pre>content: "{{ contig.stdout[0] }}" doct. "icc.configurations/IDUE OUTPUT ({ inventory bestress })</pre>									
24	dest: "los_configurations/19v6_001901 {{ inventory_nostname }}									

16. jalankan ansible playbook untuk konfigurasi IPv6



17. memastikan file output sudah terbuat pada file ios_configurations



18. menampilkan perofrman CPU dan RAM pada task manager Ketika menjalankan DEVASC yang berada di proxmox

🝌 Task N	lanager								_		\times
File Opt	ions View										
Processes	Performance	App history	Startup	Users	Details	Services	5				
							14%	× 75%	0%	0%	6
Name			Sta	atus			CPU	Memory	Disk	Networ	k
> 🕲 Firefox (11)							4.7%	504.2 MB	0.1 MB/s	0.1 Mbp	s ,

Gambar 0.0 task manger

19. menampilkan peforman CPU dan ram pada system monitor devasc Ketika menjalankan devasc yang berada ditempat proxmox



Lampiran Hasil Pengujian Modul 7.4.8 Di Proxmox

- 1. jalankan DEVASC VM
- 2. buka terminal pada DEVASC virtual machine
- 3. aktfikan server SSH



0 upgraded, 0 newly installed, 0 to remove and 534 not upgraded. devasc@labvm:~\$

6. buka Visual Studio Code

sshpass is already the newest version (1.06-1).

7. buka folder /labs/devnet-src/ansible

Open Folder		
🚆 Recent	◀ medevasc labs devnet-src ansible ▶	
Mome	Name 🔺	Size Modified
Desktop	ansible-apache	2 Jun 2020
Documents	ansible-csr1000v	2 Jun 2020
Downloads		

8. Buka file hosts pada directori ansible-apache

9. Tambahkan script berikut pada file hosts

-		
	https://192.168.1.10:8006/?console=kvm&novnc=1&vmid=101&vmname=DEVASC&node=server&resize=off&cmd=	☆ ≡
hosts -	ansible - Visual Studio Code	008
File Edit	Selection View Go Run Terminal Help	
ζh	\equiv hosts \times	□ …
	ansible-apache > 🗧 hosts	
	1 [webservers]	
	2 192.0.2.3 ansible_ssh_user=devasc ansible_ssh_pass=Cisco123!	
وړ		

10. Cek ip denga ip addr

11. membuat ansible playbook untuk mengotomatiskan installasi web server

e ansible File Edit	e.cfg - ansible - Visual Studio Code Selection View Go Run Termir	al Help	•••				
ф	EXPLORER	≣ hosts 🔅 ansible.cfg ×	□ …				
0	✓ OPEN EDITORS	ansible-apache > 🌣 ansible.cfg 1 # Add to this file for the Ansible lab					
7	× 🌣 ansible.cfg ansibl	<pre>2 [defaults] 3 # Use local hosts file in this folder</pre>					
fo	 ANSIBLE ansible-apache 	4 inventory=./hosts 5 # Don't worry about RSA Eingerprints					
	 ansible.cfg checklocalinfo.yml 	<pre>6 host_key_checking = False 7 # Do not create retry files</pre>					
٣ ا	≣ hosts E servers	<pre>8 retry_files_enabled = False</pre>					
E.	> ansible-csr1000v						

12. lakukan ping modul untuk memeriksa bahwa ansible dapat ping webserver

- 13. menverifikasi bahwa ansible dapat berkomunikasi dengan webserver devasc@labvm:-/labs/devnet-src/ansible/ansible-apache\$ ansible webservers -m command -a "/bin/echo hello world" 192.0.2.3 | CHANGED | rc=0 >> hello world devasc@labvm:-/labs/devnet-src/ansible/ansible-apache\$
- 14. membuat file di ansible-apache melalui VS code, dengan nama test_apache_playbook.yaml lalu masukkan script seperti dibawah

0 8	https:// 192.168.1.10 :8006/?console=kvn	n&novnc=1&vmi	d=101&vmname=DEVASC&r	node=server&resize=off&cmd=	2	7 ≡
test_ap File Edit	aache_playbook.yaml - ansible - Visi Selection View Go Run Term	ual Studio Code inal Help	-		•	908
பு	EXPLORER			$!$ test_apache_playbook.yaml $ imes$		
	\sim OPEN EDITORS	ansible-a	pache > ! test_apa	che_playbook.yaml		
Q	➡ hosts ansible-apa ✿ ansible.cfg ansibl		- hosts: webse	rvers		
0.0	× ! test_apache_pla		tasks:	a acha command		
Po			command:	/bin/echo hello world		

15. jalankan ansible playbook untuk tes grup webserver

16. membuat file di ansible-apache melalui VS code, dengan nama install_apache_playbook.yaml lalu masukkan script seperti dibawah

17. jalankan ansible backup untuk install apache

18. verifikasi bahwa apache sudah terinstall

- @labvm:-/labs/devnet-src/ansible/ansible-apache\$ sudo systemctl status apache2 the2.service - The Apache HTTP Server obc: https://httpd.apache.org/docs/2.4/ Process: 7288 ExecStart=/usr/sbin/apachec1 start (code=exited, status=0/SUCCESS) Main PID: 7292 (apache2) Tasks: 55 (limit: 4627) Memory: 5.8% CGroup: /system.slice/apache2.service -7292 /usr/sbin/apache2 - k start -7294 /usr/sbin/apache2 - k start -7294 /usr/sbin/apache2 - k start Jul 13 15:02:05 labvm systemd[1]: Starting The Apache HTTP Server... Jul 13 15:02:05 labvm systemd[1]: Starting The Apache HTTP Server. Usit 3 labvm:-/labs/devnet-src/ansible/ansible-apacheS Menu C devasc@labvm:-/labs... System Monitor] Menory -/labs... C devasc@labvm:-/labs... C devasc@labvm:-/labs...
- 19. membuat file di ansible-apache melalui VS code, dengan nama install_apache_options_playbook.yaml lalu masukkan script seperti dibawah

20. periksa file yang akan dimodifikasi ke playbook

devasc@labvn:-/labs/devnet-src/ansible/ansible-apache\$ ansible-playbook install_apache_options_playbook.yanl
PLAY [webservers]
TASK [Gathering Facts]
TASK [INSTALL APACHE2]
task [INSTALL APACHE2]
task [ENABLED NOD_REWRITE]
task [APACHE2 LISTEN ON PORT 8081]
task [APACHE2 VIRTUALHOST O

22. memeriksa bahwa apache berhasil di install

23. tampilan task manager Ketika sedang menjalankan devasc tempat proxmox pada browser firefox

24. tampilan system monitor Ketika sedang menjalankan devasc

stem Moni	itor							
tor Edit	View Help							
	3							
tem Proc	esses Resources	File Systems						
U History								
100%								
75%								
50%								
25%								
0%								
60 seconds		50			30	20		
	CPU1 1.0%		CPU2 0.0%		CPU3	3.0%	CPU4	0.0%
emory and	Swap History							
100%								
75%								
75%								
75% 50%								
75% 50% 25%						24		
75% 50% 25% 0% 		50	40		30	20	10)
75% 50% 25% 60 seconds	Memory	50	40		30 Swap	20	10	9
75% 50% 25% 60 seconds	Memory 1.2 GiB (31.7%) of	50 F 3.8 GiB	40		30 Swap 0 byte	20 9 es (0.0%) of 2.0 GiB	10	1
75% 50% 25% 60 seconds	Memory 1.2 GiB (31.7%) of	50 F 3.8 GiB	40		30 Swap 0 byte	20 es (0.0%) of 2.0 Git	10)
75% 50% 25% 60 seconds etwork His	Memory 1.2 GiB (31.7%) ol story	50 F 3.8 GiB	40		30 Swap 0 byte	20) es (0.0%) of 2.0 Git	10	1
75% 50% 25% 60 seconds etwork His 3.1 k8	Memory 1.2 GiB (31.7%) ol story	:0 [∓] 3.8 GiB	40		30 Swap 0 byte	20 es (0.0%) of 2.0 Git	3	1
75% 50% 25% 60 seconds etwork His 3.1 k8 2.0 k8	Memory 1.2 GiB (31.7%) ol story	ⁱ⁰ [∓] 3.8 GiB	40		30 Swap 0 byte	20) es (0.0%) of 2.0 GiE	3)
75% 50% 25% 60 seconds etwork His 3.1 k8 2.0 k8	Memory 1.2 GiB (31.7%) ol story	90 F 3.8 GiB	40		30 Swap O byte	20) es (0.0%) of 2.0 GiB	3	,
75% 50% 25% 0% 60 seconds 25% 25% 0% 20% 20% 20% 20% 20% 20% 20% 20% 20%	Memory 1.2 GiB (31.7%) ol story	50 7 3.8 GiB	40		30 Swap o byte	20 es (0.0%) of 2.0 Gif	3	1
75% 50% 25% 0% 60 seconds 4.1 k8 3.1 k8 2.0 k8 0 bges 60 seconds	Memory 1.2 GiB (31.7%) ol story	60 5 3.8 GiB	40		30 Swap 0 byte	20 es (0.0%) of 2.0 GiB	3	
75% 50% 25% 60 seconds 4.1 k8 1.0 k8 0 bytes 60 veconds	Memory 1.2 GiB (31.7%) ol story Receiving	10 F 3.8 GiB	40	0 bytes/s	30 Swap 0 byte	20 20 20 20 20 20 ding	3) 0 bytes/s

Lampiran Hasil Pengujian Modul 7.4.7 Di PNET-Lab

1. Buka file hosts.

```
devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v$ vim hosts.txt
        devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v$
         🔕 Menu 🛛 🖸 devasc@labvm: ~/labs...
2. Isikan file hosts dengan username dan password beserta IP Address pada CSR1kv.
          devasc@labvm: ~/labs/devnet-src/ansible/ansible-csr1000v
        # Enter hosts or devices for Ansible playbooks
CSR1kv ansible_user=cisco ansible_password=cisco123! ansible_host=192.168.20.253
3. Kembali ke directory ansible
        devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v$ cd ...
        devasc@labvm:~/labs/devnet-src/ansible$
         🔕 Menu 🛛 🖸 devasc@labvm: ~/labs...
4. Memeriksa daftar command pada ansible
                             labs/devnet-src/anstble$ anstble
[-h] [-version] [-v] [-b] [-:become-method BECOME_METHOD] [--become-user BECOME_USER] [-K]
[-t INVENTORY] [-·list-hosts] [-1 SUBSET] [-P POLL_INTERVAL] [-B SECOMD5] [-0] [-t TREE] [-K]
[-rofvate-key PRIVATE_KEY_FILE] [-u REMOTE_USER] [-c CONNECTION] [-T TIMEOUT]
[-ssh-common-args SSH_COMMON_ARGS] [--sftp-extra-args SSFT_EXTRA_ARGS]
[-scp-extra-args SCP_EXTRA_ARGS] [--sftp-extra-args SSFT_EXTRA_ARGS] [-C] [--syntax-check] [-D]
[-e EXTRA_VARS] [--vault-td VAULT_IDS]
[-e EXTRA_VARS] [-vault-td vAULT_IDS]
[--ask-vault-pass | --vault-password-file VAULT_PASSWORD_FILES] [-f FORKS] [-M MODULE_PATH]
[-playbook-dit BASEDIR] [-a MODULE_ARGS] [-m MODULE_NAME]
pattern
         isage: ansible
          pattern
nsible: error: the following arguments are required: pattern
5. Memeriksa versi ansible dengan command --version
         devasc@labvm:~/labs/devnet-src/ansible$ ansible --version
ansible 2.9.9
          config file = /etc/ansible/ansible.cfg
configured module search path = ['/home/devasc/.ansible/plugins/modules', '/usr/share/ansible/plugi
          ansible python module location = /home/devasc/.local/lib/python3.8/site-packages/ansible
executable location = /home/devasc/.local/bin/ansible
python version = 3.8.2 (default, Apr 27 2020, 15:53:34) [GCC 9.3.0]
evasc@labvm:~/labs/devnet-src/ansible$
         🄕 Menu 🛛 🖸 devasc@labvm: ~/labs...
```

6. Menampilkan file bawaan dari ansible.cfg

```
devasc@labvm: ~/labs/devnet-src/ansible
File Edit View Search Terminal Help
devasc@labvm:~/labs/devnet-src/ansible$ cat /etc/ansible/ansible.cfg | more
# config file for ansible -- https://ansible.com/
# nearly all parameters can be overridden in ansible-playbook
# or with command line flags. ansible will read ANSIBLE_CONFIG,
# ansible.cfg in the current working directory, .ansible.cfg in
# the home directory or /etc/ansible/ansible.cfg, whichever it
# finds first
[defaults]
# some basic default values...
                    = /etc/ansible/hosts
= /usr/share/my_modules/
#inventory
#library
#Itorary = /usr/share/my_module_utils/
#module_utils = /usr/share/my_module_utils/
#remote_tmp = ~/.ansible/tmp
#local_tmp = ~/.ansible/tmp
#plugin_filters_cfg = /etc/ansible/plugin_filters.yml
#forks
#poll_interval = 15
#sudo_user = root
#ask_sudo_pass = True
#ask_pass
#transport
               = True
= smart
#remote_port
#module_lang
#module set locale = False
# plays will gather facts by default, which contain information about
# the remote system.
# smart - gather by default, but don't regather if already gathered
# implicit - gather by default, turn off with gather_facts: False
# explicit - do not gather by default, must say gather_facts: True
#gathering = implicit
🔕 Menu 🔄 devasc@labvm: ~/labs...
```

7. Memeriksa versi ansible pada directory ansible-csr1000v

```
devasc@labvm:-/labs/devnet-src/ansible/ansible-csr1000v$ ansible --version
ansible 2.9.9
config file = /home/devasc/labs/devnet-src/ansible/ansible-csr1000v/ansible.cfg
configured module search path = ['/home/devasc/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules
]
ansible python module location = /home/devasc/.local/lib/python3.8/site-packages/ansible
executable location = /home/devasc/.local/lib/python3.8/site-packages/ansible
executable location = 3.8.2 (default, Apr 27 2020, 15:53:34) [GCC 9.3.0]
devasc@labvm:-/labs/devnet-src/ansible/ansible-csr1000v$
```

8. Membuka file ansible.cfg

- 9. Menambahkan script pada ansible.cfg menggunakan command vim devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$ vim ansible.cfg devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$
- 10. Isi Script pada ansible.cfg, berisikan

```
devasc@labvm: ~/labs/devnet-src/ansible/ansible-csr1000v
```

```
File Edit View Search Terminal Help

# Add to this file for the Ansible lab

[defaults]

# Use local hosts file in this folder

inventory=./hosts

host_key_checking = False # Don't worry about RSA Fingerprints

retry_files_enabled = False # Do not create them

deprecation_warnings = False # Do not show warnings
```

- ./hosts adalah file host di directory saat ini,
- *host_key_checking= False*, lingkungan pengembangan local tidak memiliki kunci ssh yang disiapkan, diatur pada False
- retry_files_anabled= False, saat ansible memiliki masalah dalam menjalankan playbook untuk sebuah host, akan menampilkan nama host ke dalam sebuah file di direktori
- *deprecation_warnings=False*, menonaktifkan peringatan penggunaan fitur yang dijadwalkan untuk dihapus dalam rilis ansible yang akan dating
- 11. membuat script "backup_cisco_router_playbook.yaml" lalu buka menggunakan vim. devasc@labvm:-/labs/devnet-src/anstble/anstble-csr1000v\$ vim_backup_cisco_router_playbook.yaml

```
devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v$ vim backup_cisco_router_playbook.yaml
devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v$
④ Menu 🔄 devasc@labvm:~/labs...
```

12. Isi script "backup_cisco_router_playbook.yaml,

13. Ping pada area CSR1kv

devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$ ping 192.168.20.253
PING 192.168.20.253 (192.168.20.253) 56(84) bytes of data.
64 bytes from 192.168.20.253: icmp_seq=1 ttl=255 time=8.19 ms
64 bytes from 192.168.20.253: icmp_seq=2 ttl=255 time=2.55 ms
64 bytes from 192.168.20.253: icmp_seq=3 ttl=255 time=2.56 ms
64 bytes from 192.168.20.253: icmp_seq=4 ttl=255 time=2.56 ms
64 bytes from 192.168.20.253: icmp_seq=5 ttl=255 time=8.85 ms
64 bytes from 192.168.20.253: icmp_seq=6 ttl=255 time=3.51 ms
^cc
--- 192.168.20.253 ping statistics --6 packets transmitted, 6 received, 0% packet loss, time 5008ms
rtt min/avg/max/mdev = 2.549/5.565/8.854/2.731 ms
devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v\$

14. Membuat directory backups

15. Jalankan ansible-playbook "backup_cisco_router_playbook.yaml", pada saat dirunning

16. Memeriksa pada directory backups, jika berhasil dirunning maka file show_run_CSR1kv.txt akan muncul, lalu buka dengan "cat show_run_CSR1kv.txt" devasc@labvm:~/labs/devnet-src/ansible/ansible-csr1000v/backups

File Edit View Search Terminal Help		
panner motd ^C		^
**	**	
***	***	
<pre>*** Cisco Networking Academy</pre>	***	
***	***	
*** This software is provided for	***	
<pre>*** Educational Purposes</pre>	***	
*** Only in Networking Academies	***	
***	***	
**	**	
	*	
≜C		
line con U		
stophits 1		
transport input ssh		
ine vtv 5 15		
login local		
transport input ssh		

17. Dari hasil diatas didapatkan hasil pemeriksaan pada task manager, dilihat pada Firefox kinerja CPU 2.3% lalu pada Memory dengan kinerja sebesar 716.1 MB

🔣 Task Manager											<
File Opt	ions View										
Processes	Performance	App history	Startup	Users	Details	Services					
							14%	× 76%	2%	2%	
Name				Status			CPU	Memory	Disk	Network	
> 🝅 Firefox (12)							2.3%	716.1 MB	0.1 MB/s	3.1 Mbps	

- 18. Pemeriksaan pada system monitor devasc yang berada di pnetlab mendapatkan kinerja pakai pada
 - CPU 1 = 27.6%
 - CPU 2 = 34.3%
 - CPU 3 = 17.0%
 - CPU 4 = 27.4%

Pada penggunaan Memory sebesar 810.7 MB dari 3.8 GB mendapatkan presentase 20.6%

Lampiran Hasil Pengujian Modul 7.4.8 Di PNET-Lab

1. Memulai SSH server

```
devasc@labvm:~
File Edit View Search Terminal Help
devasc@labvm:~$ sudosystemctl
sudosystemctl: command not found
devasc@labvm:~$ sudo systemctl start ssh
devasc@labvm:~$
```

2. Install SSH

3. *Install* sshpass

```
devasc@labvm:~$ sudo apt-get install sshpass
Reading package lists... Done
Building dependency tree
Reading state information... Done
sshpass is already the newest version (1.06-1).
0 upgraded, 0 newly installed, 0 to remove and 534 not upgraded.
devasc@labvm:~$
🄕 Menu 🔄 🔄 devasc@labvm: ~
```

4. Buka *file hosts* pada ansible-apache dengan vim

```
devasc@labvm:~/labs/devnet-src/ansible/ansible-apache$ vim hosts.txt
devasc@labvm:~/labs/devnet-src/ansible/ansible-apache$
🔇 Menu 🔄 devasc@labvm: ~/labs... 🚞 [ansible-apache]
```

5. Isi kan *script* pada *hosts* seperti berikut

```
devasc@labvm: ~/labs/devnet-src/ansible/ansible-apache
[webservers]
192.0.2.3 ansible_ssh_user=devasc ansible_ssh_pass=Cisco123!
```

6. Cek ip addr

- devasc@labvm:~/labs/devnet-src/ansible/ansible-apache\$ vim ansible.cfg devasc@labvm:~/labs/devnet-src/ansible/ansible-apache\$ @ Menu 🗈 devasc@labvm:~/labs... 🖿 [ansible-apache]
- 8. Isi kan script pada ansible.cfg seperti berikut

devasc@labvm: ~/labs/devnet-src/ansible/ansible-apache

File Edit View Search Terminal Help

Add to this file for the Ansible lab
[defaults]
Use local hosts file in this folder
inventory=./hosts
Don't worry about RSA Fingerprints
host_key_checking = False
Do not create retry files
retry_files_enabled = False
~

9. Memeriksa komunikasi dengan local *webserver*, gunakan ping ansible dengan *hosts* webservers

10. Memastikan bahwa ansible dapat terhubung dengan webserver

- 11. Membuat file "test_apache_playbook.yaml" lalu buka dengan menggunakan vim devasc@labvm:~/labs/devnet-src/ansible/ansible-apache\$ vim test_apache_playbook.yaml devasc@labvm:~/labs/devnet-src/ansible/ansible-apache\$
 Menu I devasc@labvm:~/labs... ansible-apache
- 12. Berikut isi script seperti berikut "test_apache_playbook.yaml"

13. Jalankan ansible-playbook "test_apache_playbook.yaml"

- 14. Membuat file "*install_apache_playbook*.yaml" dan buka dengan vim devasc@labvm:-/labs/devnet-src/ansible/ansible-apache\$ vim install_apache_playbook.yaml devasc@labvm:-/labs/devnet-src/ansible/ansible-apache\$ Menu C devasc@labvm:-/labs... ansible-apache
- 15. Jalankan ansible-playbook "install_apache_playbook.yaml"

16. Lakukan cek status apache2 jika berhasil maka menunjukan status "Active"

- 17. Membuat file "install_apache_options_playbook.yaml" dan buka dengan vim ı:-/labs/devnet-src/ansible/ansible-apache\$ vim install_apache_options_playbook.yaml :-/labs/devnet-src/ansible/ansible-apache\$ ▋
- 18. Isi kan script "install apache options playbook.yaml" seperti berikut

🚳 Menu 🛛 🖻 devasc@labvm: ~/labs... 🗎 [ansible-apache]

19. Sebelum dijalankan, terlebih dahulu memeriksa pada playbook yang akan di mofikasi yaitu pada ports.conf, perhatikan pada "Listen 80"

devasc@labvm:~/labs/devnet-src/ansible/ansible-apache\$ cat /etc/apache2/ports.conf
If you just change the port or add more ports here, you will likely also
have to change the VirtualHost statement in # /etc/apache2/sites-enabled/000-default.conf Listen 80 <IfModule ssl_module> Listen 443 </IfModule> <IfModule mod_gnutls.c> Listen 443 </IfModule> # vim: syntax=apache ts=4 sw=4 sts=4 sr noet

20. Periksa juga pada bagian 000-default.conf, perhatikan pada bagian <VirtualHost *:80>

21. Jalankan ansible-playbook "install_apache_options_playbook.yaml"

22. Cek Kembali pada ports.conf, maka akan berubah menjadi "Listen 81"

23. Cek Kembali juga pada bagian 000-default.conf, maka akan berubah menjadi *<VirtualHost* *:81>

24. Dari hasil diatas pengujian dilakukan pada tempat Firefox didapatkan hasil kinerja pakai pada CPU adalah 3.8% pada *Memory* adalah 472.7 MB

Task Manager											<
File Opt	ions View										
Processes	Performance	App history	Startup	Users	Details	Services	;				
							14%	× 73%	2%	2%	
Name			Sta	Status			CPU	Memory	Disk	Network	
> 🍅 Firefox (12)							3.8%	472.7 MB	0.1 MB/s	2.2 Mbps	

- 25. Pemeriksaan pada system monitor devasc yang berada pada pnetlab mendapatkan hasil kinerja pakai CPU sebesar :
 - CPU 1 = 3.9%
 - CPU 2 = 40.2%
 - CPU 3 = 13.0%
 - CPU 4 = 8.7%

Pada penggunaan Memory sebesar 780.7 MB dari 3.8 GB presentase sebesar 19.8%

