Подготовка машины ControlVM (на базе Альт Рабочая станция)

Задание:

1) Подготовка машины ControlVM

- а) Общие указания:
 - 1. Вся проверка выполнения задания будет осуществляться с машины ControlVM.
 - 2. НЕ удаляйте инстанс ControlVM после завершения задания.
- b) Создание и настройка инстанса ControlVM:
 - 1. Создайте виртуальный инстанс с именем ControlVM и подключите его к сети интернет.
 - 2. Установите следующие параметры для виртуальной машины:
 - і. Тип виртуальной машины: 2 vCPU, 4 ГБ RAM.
 - ii. Размер диска: 30 ГБ.
 - iii. Тип диска: SSD.
 - 3. Отключите функции мониторинга и резервного копирования для данного инстанса.
 - 4. В качестве операционной системы выберите Альт Сервер 10.
 - 5. Настройте инстанс для разрешения внешних подключений по протоколу SSH.
 - 6. Сохраните ключевую пару для доступа на вашем локальном ПК на рабочем столе с расширением .pem.
- с) Настройка внешнего подключения к ControlVM:
 - 1. Установите на локальный ПК клиент SSH PuTTY.
 - 2. Создайте в PuTTY профиль с именем cloud.
 - 3. Убедитесь в возможности установления соединения с инстансом ControlVM с локального ПК через PuTTY, без необходимости ввода дополнительных параметров.
 - 4. Для подключения используйте имя пользователя altlinux и paнee сохранённую ключевую пару.

Вариант реализации:

• Создаём ключевую пару для доступа к ControlVM на рабочем столе с расширением '.pem':

puttygen -t rsa -b 2048 -о Рабочий\ стол/cloud.pem





Открываем в блокноте сгенерированный ключ и копируем заголовок ssh-rsa и публичную часть ключа:
 Заголовок и публичную часть ключа необходимо будет поместить в Кибер Инфраструктура далее



- В веб-интерфейсе Кибер Инфраструктура создаём SSH-ключ:
 - В разделе SSH-ключи нажимаем Добавить SSH-ключ и даём понятное имя и ранее скопированное Значение ключа и нажимаем Добавить:

		*Добавить SSH-ключ ×
		Для установки ключа в виртуальную машину в се шаблоне должен быть лакет cloud-init.
		Hese cloud (4)
		Описание (необязательно)
4		3Hauenne (Dous - 5
		AAAAB3N2aC1yC2EAAAADAQABAAABAQCFBJiFAn1fKZXYSrtQaG9 KnVaQc1z69YwxNAAyaL5BQur5u1YkzZyaUbIXxLy/f8yapTwXXXq w2Q1Mks=5W4572F1X459hnHn0cfmD272fiBilkPpEK55meruw
		2R10neMapBitCApzizBLiwpGowemd/ZXGBx32wxORhirco037My xflphr/gqQi31W9Bn7WN38GV3mbXDqQ3PyV3kQ379B1awiSuND 1/2EP4ZYPTZyPscGr6z7y3v6F+27bZKWr07JE9FTy4BEjrqfov
	.	TjtmGR8KHlkYraZSerAu+D+FkrlpxFUqDdsqP6ocnNncXk5P

- Результат:
- Созданный SSH-ключ с именем cloud

Вычисления 🚺	SSH-ключи	
😚 Виртуальные машины	Поиск Q	
💽 Образы	1/Mg *	Описание
🔒 Тома		Statute 4
🔏 Сети	Cloud	-
VPN		
🗱 Маршрутизаторы		
Плавающие IP-адреса		
🔠 Группы безопасности		
👬 Балансировщики нагрузки		
🤌 SSH-ключи		

- Для создания ControVM и подключения к ней с доступом в сеть Интернет, процесс создания зависит от настройки Кибер Инфраструктуры, а именно сети 'public', которая будет предоставлять Плавающие IP:
 - Если на сеть выданы права Все права Предоставление полного доступа позволит виртуальным машинам в выбранных проектах обмениваться трафиком с данной сетью напрямую или через виртуальные маршрутизаторы.
 Тогда для ControlVM достаточно просто подключить данную сеть и подключаться по полученному IP-адресу;
 - Тогда для соптотум достаточно просто подключить данную сеть и подключаться по полученному IP-адресу;
 Если на сеть выданы права Маршрутизируемый Предоставление маршрутизируемого доступа позволит виртуальным
 - машинам в выбранных проектах обмениваться трафиком с данной сетью только через виртуальные маршрутизаторы. • Тогда для ControlVM потребуется предварительно создать:

- Виртуальную подсеть;
- Виртуальный маршрутизатор, который будет маршртитизировать в сеть Интернет (SNAT);
- Плавающий IP ассоциируемый с данной виртуальной машиной;
- Рассмотрим процесс создания ControlVM когда для её работы неоходимо создать ряд вспомогательных ресурсов описанных выше:
 - Создадим виртуальную подсеть с именем **cloud**:
 - Имя может быть произвольным, но для наглядности все рессурсы необходимые для работы ControlVM будут именоваться cloud, чтобы в дальнейшем не удалить их случайно;

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A REAL PROPERTY OF A REAL PROPER				_	

Al Boundary Bri	Встроенный сервер DHCP •	1
DESpec	Пулы IP-адресов	🕀 Добавить
7	▶ 192.168.100.100 — 192.168.100.200 101 адресов доступно	0 1
	Серверы DNS	Добавить
8	77.88.8.8	/ ii

Создать виртуальную сеть

Конфигурация сети	предыдущие шаги.	
Управление іР-адресами	Тип	Виртуальная (на основе VXLAN)
	Имя	cloud
Сводка	Подсеть ІРv4	
	Версия IP подсети	1Pv4
	CIDR	192.168.100.0/24
	Встроенный сервер DHCP	Включена
	Шлюз	192.168.100.1
	Пулы IP-адресов	192,168.100.100 – 192,168.100.200 101 адреса доступно
	Cepsenal DNS	77.88.8.8

×

• Результат:

• Созданная виртуальная сеть с именем cloud необходимая для работы ControlVM (не удалять в конце выполнения задания, ресурс необходим для работы ControlVM):

Сети			cloud		×
Poince Q			🖞 Уделить		
Имя †	Управление IP-адресами	Тип			
🖧 public	Включено	Физическая	Конфигурация сети		
🙏 dood	Включено	Виртуильная	ites	doud	1
			Tirr	Виртуальная	
			Идентификатор сети	aa4a8707-d4c6-4524-9e42-50ffbc14388b	
			Подсети		
			192.168.100.0/24		1
			Версин IP подсети	IPvil.	
			CIDR	192.168.100.0/24	
			Шлюх	192.168.100.1	
			Сервер DHCP	Включено	
			Пулы IP-адресов	192.168.100.100 - 192.168.100.200	
			Cepterpui DNS	77.88.8.8	

- Создадим Виртуальный маршрутизатор с именем cloud:
 - Имя может быть произвольным, но для наглядности все рессурсы необходимые для работы ControlVM будут именоваться cloud, чтобы в дальнейшем не удалить их случайно;

K	кт 👩	
\mathcal{Y}^{n}		 Добавить виртуальный маршрутизат ×
Ŷ.		doud
		Ухажите сеть, через которую будет предоставияться доступ с публичным сетам. Сог. public 192.168.15.0/24
		5 → Z 3NAT 0
		Добавить внутренние интерфейсы + добавить
		6 содать

- Результат:
 - Созданный виртуальный маршрутизатор с именем cloud необходимая для работы ControlVM (не удалять в конце выполнения задания, ресурс необходим для работы ControlVM):

Поиск	٩			
	Имя †	Статус 👙	Внешняя сеть	SNAT
	() cloud	😋 Запущена	public	Включено

- Создаём инстанс (виртуальную машину) ControlVM:
 - Задаём имя в соответствие с заданмем;
 - Выбираем образ alt0server-p10-cloud, т.к. по заданию ControlVM должен быть на Альт Сервер;
 - Размер диска следует поменять с 5 на 30, т.к. по заданию должно быть 30;
 - Выбираем Тип BM который соответствует требованиям задания 2vCPU и 4RAM;
 - Сетевой интерфейс подключаем к ранее созданной виртуальной сети cloud;
 - В качестве SSH-ключа указываем ранее созданный cloud:

KNEE	PHPO 2KT			
194 Barrier		🔭 Создать виртуальную г	иашину	×
1		Проверьте конфигурацико виртуаль Viem ControlVM (3	ной машины. При необходимости измените ес, вернувши Развернуть их О Сбраз Пты	сь на предыдущие шаги.
•		Образ	alt-server-p10-cloud-x86_64.qcow2	1
17° 01145.		Тома	Загрузочный том — 5 ГиБ, default (Зпрузич	••••



• Результат:

• Созданная виртуальная машина ControlVM в соответствие с требованиями задания:

Виртуальные машины ControiVM × 2 Понск Q, 🗈 Консоль 🕑 Перезагрузить 😃 Выключить 🕴 Алларатная перезагруз Имя т Статус 🐇 Обзор Монит ControlVM О Запущена Время создания SSH-KRIOH cloud Идентифи 0ñ cb9904fa-3fde-4036-8596-d6ad16acd1c8 манины Свойства MMR ControlVM Образ alt-server-p10-cloud-x86_64.qcow2 Использовать настройки кластера: host Режим эмуляции ЦП Том 1 (30 ГиБ, default) Загрузочный Tosta 1 Two BM medium (2 ЦЛ, 4 ГиБ 03У) Торячее подключение ЦП и ОЗУ Отключено 1 ческие миграции DRS Включено ABTO

• Создаём Плавающий IP чтобы можно было подключиться к ControlVM:

KI		2	
94		Добавить плавающий IP-адрес	×
		Выберите сеть, откуда будет ваят плавающий IP-адрес. Сть риби: 192.168.15.0024 (3) Выберите прикатный IP-адрес виртуальной машины кли болан окровщика нагрузах, изгорый необходимо сенаать павающих IP-адресом. СоглагиМ (4) (Скновной) 192.168.100.159 (3) Отмена (4)	с. 6) ~ 60 страната 60 страна 60 страна 60 страната 60 страната 60 страната 60 страната 6

• Результат:

Созданный Плавающий IP адрес назначенный ControlVM:

Плавающие IP-адреса

Пон	× Q				
	ІР-адрес 🛓	Статус	Сеть	Назначен	IP-адрес ВМ
	(P) 192.168.15.119	💍 Запущена	public	ControlVM	192,168.100,159

• Для подключения к ControlVM создаём профиль в putty:

• Используя для подключения Плавающий IP адрес и ранее сгенерированную ключевую пару на Рабочем столе:

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- Результат:
 - Подключение к ControlVM под пользователем altlinux на основе ключевой пары используя putty:



• Проверяем сетевые параметры и доступ в сеть Интернет:



Последнее изменение: среда, 1 января 2025, 13:02

Обратная связь

Подпишитесь

Вы используете гостевой доступ (Вход) Сводка хранения данных

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