



**Санкт-Петербургское государственное бюджетное
профессиональное образовательное учреждение
«Радиотехнический колледж»**

ОТЧЕТ

по практической работе №8

на тему: «Установка Ansible»

**по учебной практике УП.03 Эксплуатация объектов сетевой
инфраструктуры**

специальность 09.02.06 Сетевое и системное администрирование

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Практическая работа №8

Установка Ansible

Цель работы: Отработка практических навыков.

Осваиваемые компетенции: ПК 3.1, ПК 3.2, ПК 3.3, ПК 3.4, ПК 3.5, ПК 3.6.

Задание.

```
[root@Controlmachine ~]# ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:CBphW0heMjvYjx287EBLD2PRatoF3sINwh9V0c8WaaA root@Controlmachine
The key's randomart image is:
+---[RSA 3072]-----+
| .+ E.oo.o |
| .+ + . = . |
| ..+ = o . + . |
| .+O.B o + |
| +@*= + S . |
| .B=*o |
| . +*.o |
| ..= |
| .. |
+-----[SHA256]-----+
```

```
[root@Controlmachine ~]# ls -l ~/.ssh
итого 16
-rw-----. 1 root root 2610 фев 24 12:50 id_rsa
-rw-r--r--. 1 root root 573 фев 24 12:50 id_rsa.pub
-rw-----. 1 root root 953 фев 21 11:22 known_hosts
-rw-r--r--. 1 root root 100 фев 18 14:29 known_hosts.old
[root@Controlmachine ~]#
```

```
[root@Controlmachine ~]# ssh-copy-id user@55.55.0.1
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
The authenticity of host '55.55.0.1 (55.55.0.1)' can't be established.
ED25519 key fingerprint is SHA256:Sl5RXBd0mtL130JR6uSXQg8KkUJcJwoxqIHY91P2Ns.
This host key is known by the following other names/addresses:
  /usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
user@55.55.0.1's password:
Permission denied, please try again.
user@55.55.0.1's password:
Permission denied, please try again.
user@55.55.0.1's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'user@55.55.0.1'"
and check to make sure that only the key(s) you wanted were added.

[root@Controlmachine ~]# ssh-copy-id user@172.16.100.2
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed

/usr/bin/ssh-copy-id: ERROR: ssh: connect to host 172.16.100.2 port 22: Connection refused

[root@Controlmachine ~]# ssh-copy-id user@172.16.100.2 -p 2024
/usr/bin/ssh-copy-id: ERROR: Too many arguments. Expecting a target hostname, got:

Usage: /usr/bin/ssh-copy-id [-h|-?|-f|-n|-s] [-i [identity_file]] [-p port] [-F alternative_ssh_config_file] [[-o <ssh -o options>] ...] [user@]hostname
  -f: force mode -- copy keys without trying to check if they are already installed
  -n: dry run -- no keys are actually copied
  -s: use sftp -- use sftp instead of executing remote-commands. Can be useful if the remote only allows sftp
  -h|-?: print this help
[root@Controlmachine ~]# ssh-copy-id -p 2024 user@172.16.100.2
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
(user@172.16.100.2) Password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh -p '2024' 'user@172.16.100.2'"
and check to make sure that only the key(s) you wanted were added.
```

```
GNU nano 7.2 /etc/ansible/demo
172.16.100.2 ansible_port=2024 ansible_user=sshuser
55.55.0.1 ansible_user=user
```

```
[root@Controlmachine ~]# ansible all -i /etc/ansible/demo -m ping
55.55.0.1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.11"
  },
  "changed": false,
  "ping": "pong"
}
172.16.100.2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3.11"
  },
  "changed": false,
  "ping": "pong"
}
```

```
[root@Controlmachine ~]# ansible all -i "172.16.100.2:2024", -m command -a "lscpu" -u user
172.16.100.2 | CHANGED | rc=0 >>
Аrchitecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 39 bits physical, 48 bits virtual
Порядок байт: Little Endian
CPU(s): 1
On-line CPU(s) list: 0
ID производителя: GenuineIntel
Имя модели: Intel(R) Core(TM) i7-10700 CPU @ 2.90GHz
Семейство ЦПУ: 6
Модель: 165
Thread(s) per core: 1
Ядер на сокет: 1
Сокетов: 1
Степпинг: 5
BogoMIPS: 5807,99
Плагин: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp lm co
instant_tsc rep_good nopl xtopology nonstop_tsc cpuid tsc_known_freq pni pclmulqdq monitor ssse3 cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave aux rdrand
_hypervisor lahf_lm abm 3dnowprefetch fsgsbase bmi1 aux2 bmi2 invpcid rdseed clflushopt md_clear flush_l1d arch_capabilities
Разработчик гипервизора: KVM
Тип виртуализации: полный
L1d cache: 32 KiB (1 instance)
L1i cache: 32 KiB (1 instance)
L2 cache: 256 KiB (1 instance)
L3 cache: 16 MiB (1 instance)
NUMA node(s): 1
NUMA node0 CPU(s): 0
Vulnerability Gather data sampling: Unknown: Dependent on hypervisor status
Vulnerability Itlb multihit: KVM: Mitigation: VMX unsupported
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Vulnerable: Clear CPU buffers attempted, no microcode: SMT Host state unknown
Vulnerability Retbleed: Vulnerable
Vulnerability Spec rstack overflow: Not affected
Vulnerability Spec store bypass: Vulnerable
Vulnerability Spectre v1: Mitigation: usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation: Retpolines, STIBP disabled, RSB filling, PBRSB-eIBRS Not affected
Vulnerability Srbds: Unknown: Dependent on hypervisor status
Vulnerability Tsx async abort: Not affected
```

```
[root@Controlmachine ~]# ansible all -i "55.55.0.1", -m command -a "lscpu" -u user
55.55.0.1 | CHANGED | rc=0 >>
Аrchitecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 39 bits physical, 48 bits virtual
Порядок байт: Little Endian
CPU(s): 1
On-line CPU(s) list: 0
ID производителя: GenuineIntel
Имя модели: Intel(R) Core(TM) i7-10700 CPU @ 2.90GHz
Семейство ЦПУ: 6
Модель: 165
Thread(s) per core: 1
Ядер на сокет: 1
Сокетов: 1
Степпинг: 5
BogoMIPS: 5807,99
Плагин: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp lm co
instant_tsc rep_good nopl xtopology nonstop_tsc cpuid tsc_known_freq pni pclmulqdq monitor ssse3 cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt aes xsave aux rdrand
_hypervisor lahf_lm abm 3dnowprefetch fsgsbase bmi1 aux2 bmi2 invpcid rdseed clflushopt md_clear flush_l1d arch_capabilities
Разработчик гипервизора: KVM
Тип виртуализации: полный
L1d cache: 32 KiB (1 instance)
L1i cache: 32 KiB (1 instance)
L2 cache: 256 KiB (1 instance)
L3 cache: 16 MiB (1 instance)
NUMA node(s): 1
NUMA node0 CPU(s): 0
Vulnerability Gather data sampling: Unknown: Dependent on hypervisor status
Vulnerability Itlb multihit: KVM: Mitigation: VMX unsupported
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Vulnerable: Clear CPU buffers attempted, no microcode: SMT Host state unknown
Vulnerability Retbleed: Vulnerable
Vulnerability Spec rstack overflow: Not affected
Vulnerability Spec store bypass: Vulnerable
Vulnerability Spectre v1: Mitigation: usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation: Retpolines, STIBP disabled, RSB filling, PBRSB-eIBRS Not affected
Vulnerability Srbds: Unknown: Dependent on hypervisor status
Vulnerability Tsx async abort: Not affected
```

```
[root@Controlmachine ~]# ansible all -i /etc/ansible/demo -m command -a "free -m"
172.16.100.2 | CHANGED | rc=0 >>
      total        used          free      shared  buff/cache   available
Mem:    1969        894          682           97        392         837
Swap:   2992        324         2668
55.55.0.1 | CHANGED | rc=0 >>
      total        used          free      shared  buff/cache   available
Mem:     962        163          573           3        225         660
Swap:   1985           0         1985
```

Вывод: Отработал практические навыки.