



INDIAN INSTITUTE OF  
INFORMATION  
TECHNOLOGY

## **DevOps(DS457)**

### **Assignment**

**Ansible lineinfile examples – Add, Modify, Delete, Replace lines.**

#### **Submitted to**

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## Task.2.2:

### 1. Validate if a line or string is present or not.

```
Activities Terminal Sep 29 19:19
sssss@sssss-Vostro-3578: ~$ cat hello.txt
hello world
this is team13
Task 4
assignment is to work with add,modify,delete,replace a string in line
samopath

sssss@sssss-Vostro-3578: ~$ cat ex1.yml
---
- name: Examples of lineinfile
  hosts: localhost

  tasks:
    - name: "Example1: Validate if a String or line is present in the file"
      become: yes
      become_user: sssss
      tags: example1
      lineinfile:
        path: /home/sssss/hello.txt
        line: "Task 4"
        state: present
        backup: yes
        check_mode: yes
      register: example1out

sssss@sssss-Vostro-3578: ~$ ansible localhost -m shell -a "grep -i tasks /home/sssss/hello.txt" -i ansible_hosts
[WARNING]: Unable to parse /home/sssss/ansible_hosts as an inventory source
[WARNING]: No inventory was parsed, only implicit localhost is available
localhost | FAILED | rc=1 >>
non-zero return code

sssss@sssss-Vostro-3578: ~$ ansible localhost -m shell -a "grep -l Task /home/sssss/hello.txt" -i ansible_hosts
[WARNING]: Unable to parse /home/sssss/ansible_hosts as an inventory source
[WARNING]: No inventory was parsed, only implicit localhost is available
localhost | CHANGED | rc=0 >>
Task 4
sssss@sssss-Vostro-3578: ~$
```

### 2. Validate if a string or line is present in file and add if not exists.

```
Activities Terminal Sep 29 19:22
sssss@sssss-Vostro-3578: ~$ nano hello.txt
sssss@sssss-Vostro-3578: ~$ cat hello.txt
hello world
this is team13
Task 4
assignment is to work with add,modify,delete,replace a string in line
samopath

sssss@sssss-Vostro-3578: ~$ nano ex2.yml
sssss@sssss-Vostro-3578: ~$ cat ex2.yml
---
- name: Examples of lineinfile
  hosts: localhost

  tasks:
    - name: "Example2: Add the line if it does not exist"
      become: yes
      become_user: sssss
      tags: example2
      lineinfile:
        path: /home/sssss/hello.txt
        line: "18RC5087"
        state: present
        backup: yes
        register: example2out

sssss@sssss-Vostro-3578: ~$ ansible-playbook ex2.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that
the 'implicit localhost' does not match 'all'

PLAY [Examples of lineinfile] *****
TASK [Gathering Facts] *****
ok: [localhost]

TASK [Example2: Add the line if it does not exist] *****
changed: [localhost]

PLAY RECAP *****
localhost: 1 ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

sssss@sssss-Vostro-3578: ~$ cat hello.txt
hello world
this is team13
Task 4
assignment is to work with add,modify,delete,replace a string in line
samopath

18RC5087
sssss@sssss-Vostro-3578: ~$ echo "Line is add at last"
Line is add at last
sssss@sssss-Vostro-3578: ~$
```

### 3.Replacing a line in the file.

```
Activities Terminal Sep 29 19:26
sssss@sssss-Vostro-3578: ~
sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team13
Task 4
assignment is to work with add,modify,delete,replace a string in line
sampath

180CS087
sssss@sssss-Vostro-3578:~$ nano ex3.yml
sssss@sssss-Vostro-3578:~$ cat ex3.yml
---
- name: Examples of lineinfile
  hosts: localhost

  tasks:
    - name: "Example3: Replace a line in file with another line"
      become: yes
      become_user: sssss
      tags: example3
      lineinfile:
        path: /home/sssss/hello.txt
        # The String to Search
        regexp: "sampath"
        # The String to Replace
        line: "sakala sampath"
        state: present
        backup: yes

      register: example3out
sssss@sssss-Vostro-3578:~$ ansible-playbook ex3.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that
the implicit localhost does not match 'all'

PLAY [Examples of lineinfile] *****
TASK [Gathering Facts] *****
ok: [localhost]

TASK [Example3: Replace a line in file with another line] *****
changed: [localhost]

PLAY RECAP *****
localhost : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team13
Task 4
assignment is to work with add,modify,delete,replace a string in line
sakala sampath

180CS087
sssss@sssss-Vostro-3578:~$ echo "The line in the file replaced with another file"
The line in the file replaced with another file
sssss@sssss-Vostro-3578:~$
```

### 4.Removing a line in the file if it is present.

```
Activities Terminal Sep 29 19:30
sssss@sssss-Vostro-3578: ~
sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team13
Task 4
assignment is to work with add,modify,delete,replace a string in line
sakala sampath

180CS087
sssss@sssss-Vostro-3578:~$ nano ex4.yml
sssss@sssss-Vostro-3578:~$ cat ex4.yml
---
- name: Examples of lineinfile
  hosts: localhost

  tasks:
    - name: "Example1: Remove a line in the file"
      become: yes
      become_user: sssss
      tags: example4
      lineinfile:
        path: /home/sssss/hello.txt
        # String to Search
        regexp: "Task 4"
        # State is set to Absent to remove if the Searching Line is found
        state: absent
        backup: yes

      register: example4out
sssss@sssss-Vostro-3578:~$ ansible-playbook ex4.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that
the implicit localhost does not match 'all'

PLAY [Examples of lineinfile] *****
TASK [Gathering Facts] *****
ok: [localhost]

TASK [Example1: Remove a line in the file] *****
changed: [localhost]

PLAY RECAP *****
localhost : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team13
assignment is to work with add,modify,delete,replace a string in line
sakala sampath

180CS087
sssss@sssss-Vostro-3578:~$ echo "the line is removed in the file"
the line is removed in the file
sssss@sssss-Vostro-3578:~$
```

## 5. Insert After a matching line using insertafter parameter

```
Activities Terminal Sep 29 19:35
sssss@sssss-Vostro-3578: ~
sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team13
assignment is to work with add,modify,delete,replace a string in line
sakala sampath

18BC5087
sssss@sssss-Vostro-3578:~$ nano ex5.yml
sssss@sssss-Vostro-3578:~$ cat ex5.yml
---
- name: Examples of lineinfile
  hosts: localhost

  tasks:
    - name: "Example5: Insert after a matching line using insertafter parameter"
      become: yes
      become_user: sssss
      tags: lineinfileexample
      lineinfile:
        path: /home/sssss/hello.txt
        insertafter: "sakala sampath"
        line: "Implementing assignment2:task4"
        firstmatch: yes
      state: present
      register: lineinfileexample

sssss@sssss-Vostro-3578:~$ ansible-playbook ex5.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the
implicit localhost does not match 'all'

PLAY [Examples of lineinfile] *****
TASK [Gathering Facts] *****
ok: [localhost]

TASK [Example5: Insert after a matching line using insertafter parameter] *****
changed: [localhost]

PLAY RECAP *****
localhost : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team13
assignment is to work with add,modify,delete,replace a string in line
sakala sampath
Implementing assignment2:task4

18BC5087
sssss@sssss-Vostro-3578:~$ echo "adding a line using insertafter parameter is done"
adding a line using insertafter parameter is done
sssss@sssss-Vostro-3578:~$
```

## 6. Commenting a line.

```
Activities Terminal Sep 29 19:41
sssss@sssss-Vostro-3578: ~
sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team13
assignment is to work with add,modify,delete,replace a string in line
sakala sampath
Implementing assignment2:task4

18BC5087
sssss@sssss-Vostro-3578:~$ nano ex6.yml
sssss@sssss-Vostro-3578:~$ cat ex6.txt
cat: ex6.txt: No such file or directory
sssss@sssss-Vostro-3578:~$ nano ex6.yml
sssss@sssss-Vostro-3578:~$ cat ex6.yml
---
- name: Examples of lineinfile
  hosts: localhost

  tasks:
    - name: "Example6: Comment the Line"
      become: yes
      become_user: sssss
      tags: lineinfileexample6
      lineinfile:
        path: /home/sssss/hello.txt
        regexp: '(hello .*)'
        line: '# \1'
        backrefs: yes
      state: present
      register: lineinfileexample6

sssss@sssss-Vostro-3578:~$ ansible-playbook ex6.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the
implicit localhost does not match 'all'

PLAY [Examples of lineinfile] *****
TASK [Gathering Facts] *****
ok: [localhost]

TASK [Example6: Comment the Line] *****
changed: [localhost]

PLAY RECAP *****
localhost : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

sssss@sssss-Vostro-3578:~$ cat hello.txt
# hello world
this is team13
assignment is to work with add,modify,delete,replace a string in line
sakala sampath
Implementing assignment2:task4

18BC5087
sssss@sssss-Vostro-3578:~$ echo "the line in the file commented"
the line in the file commented
sssss@sssss-Vostro-3578:~$
```

### 7.Insert before a matching line using insert before parameter.

```

Activities ▾ Terminal ▾ Sep 29, 20:12
sssss@sssss-Vostro-3578: ~
sssss@sssss-Vostro-3578:~$ nano ex7.yml
sssss@sssss-Vostro-3578:~$ cat hello.txt
hello world
this is team3
assignment 1s to work with add,modify,delete,replace a string in line
sakala sanpath
Implementing assignment2:task4

18BC5087
sssss@sssss-Vostro-3578:~$ cat ex7.yml
...
- name: Examples of lineinfile
  hosts: localhost

  tasks:
    - name: "Example7: Insert before a line"
      become: yes
      become_user: sssss
      tags: example7
      lineinfile:
        path: /home/sssss/hello.txt
        insertbefore: 'hello.*'
        line: "Inserting the line"
        backup: yes
        state: present

      register: example7out
sssss@sssss-Vostro-3578:~$ ansible-playbook ex7.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit
localhost does not match 'all'

PLAY [Examples of lineinfile] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Example7: Insert before a line] *****
fatal: [localhost]: FAILED! => (changed: false, msg: 'Unsupported parameters for (lineinfile) module: backup. Supported parameters include: attributes, backrefs, backup, content, create, delimiter, directory
mode, firstmatch, follow, force, group, insertafter, insertbefore, line, mode, owner, path, regexp, remote_src, selevel, serole, setype, seuser, src, state, unsafe_writes, validate')

PLAY RECAP *****
localhost                : ok=1    changed=0    unreachable=0    failed=1    skipped=0    rescued=0    ignored=0

sssss@sssss-Vostro-3578:~$ nano ex7.yml
sssss@sssss-Vostro-3578:~$ ansible-playbook ex7.yml --ask-vault-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit
localhost does not match 'all'

PLAY [Examples of lineinfile] *****

TASK [Gathering Facts] *****
ok: [localhost]

```

[illegible]



