

DevOps Sesión 13 (2022-03-23) Ansible

Documentación relacionada

- ./4-Topic 704 Configuration Management
- ./Material Curso Ansible/Curso Ansible 2020.pdf

variables

- ./Material Curso Ansible/Curso Ansible 2020.pdf pag 71
- ./Material Curso Ansible/Clase Ansible variables basicas .txt

```
- name: ensure a list of packages installed
yum:
  name: "{{ packages }}"
vars:
  packages:
    - httpd
    - httpd-tools
    - php
```

plantillas jinja2

- ./Material Curso Ansible/DO407-AUTOMATION WITH ANSIBLE I.pdf pag 82

- `/etc/ansible/playbook-resueltos/host.j2:`

```
{{ miip }} {{ ansible_hostname }} {{ ansible_fqdn }}
```

- `; playbook_sample_variables-ejemplo1.yml`

```
---
- name : Crear un fichero con variables
  hosts: clientes
  remote_user: root
  vars:
```

```
- miip: "1.2.3.4"  
tasks:  
- name: Crear fichero hosts  
  template: src=hosts.j2 dest=/tmp/hosts  
...
```

```
ansible clientes -a "cat /tmp/hosts"
```

```
ansible-playbook -e miip=192.168.1.50 playbook_sample_variables-ejemplo1.yml
```

ejemplo

[; /etc/ansible/templates/index.html.j2](#)

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml">  
  <head>  
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />  
    <title>Curso de D0407-AUTOMATION WITH ANSIBLE I</title>  
    <style type="text/css" media="screen">  
  * {  
    margin: 0px 0px 0px 0px;  
    padding: 0px 0px 0px 0px;  
  }  
  
  body, html {  
    padding: 3px 3px 3px 3px;  
  
    background-color: #D8DBE2;  
  
    font-family: Verdana, sans-serif;  
    font-size: 11pt;  
    text-align: center;  
  }  
  
  div.main_page {  
    position: relative;  
    display: table;  
  
    width: 800px;  
  
    margin-bottom: 3px;  
    margin-left: auto;  
    margin-right: auto;  
    padding: 0px 0px 0px 0px;  
  
    border-width: 2px;  
    border-color: #212738;  
    border-style: solid;
```

```
background-color: #FFFFFF;

text-align: center;
}

div.page_header {
  height: 99px;
  width: 100%;

  background-color: #F5F6F7;
}

div.page_header span {
  margin: 15px 0px 0px 50px;

  font-size: 180%;
  font-weight: bold;
}

div.page_header img {
  margin: 3px 0px 0px 40px;

  border: 0px 0px 0px;
}

div.table_of_contents {
  clear: left;

  min-width: 200px;

  margin: 3px 3px 3px 3px;

  background-color: #FFFFFF;

  text-align: left;
}

div.table_of_contents_item {
  clear: left;

  width: 100%;

  margin: 4px 0px 0px 0px;

  background-color: #FFFFFF;

  color: #000000;
  text-align: left;
}

div.table_of_contents_item a {
  margin: 6px 0px 0px 6px;
}

div.content_section {
  margin: 3px 3px 3px 3px;
```

```
background-color: #FFFFFF;

text-align: left;
}

div.content_section_text {
padding: 4px 8px 4px 8px;

color: #000000;
font-size: 100%;
}

div.content_section_text pre {
margin: 8px 0px 8px 0px;
padding: 8px 8px 8px 8px;

border-width: 1px;
border-style: dotted;
border-color: #000000;

background-color: #F5F6F7;

font-style: italic;
}

div.content_section_text p {
margin-bottom: 6px;
}

div.content_section_text ul, div.content_section_text li {
padding: 4px 8px 4px 16px;
}

div.section_header {
padding: 3px 6px 3px 6px;

background-color: #8E9CB2;

color: #FFFFFF;
font-weight: bold;
font-size: 112%;
text-align: center;
}

div.section_header_red {
background-color: #CD214F;
}

div.section_header_grey {
background-color: #9F9386;
}

.floating_element {
position: relative;
```

```

float: left;
}

div.table_of_contents_item a,
div.content_section_text a {
text-decoration: none;
font-weight: bold;
}

div.table_of_contents_item a:link,
div.table_of_contents_item a:visited,
div.table_of_contents_item a:active {
color: #000000;
}

div.table_of_contents_item a:hover {
background-color: #000000;

color: #FFFFFF;
}

div.content_section_text a:link,
div.content_section_text a:visited,
div.content_section_text a:active {
background-color: #DCDFE6;

color: #000000;
}

div.content_section_text a:hover {
background-color: #000000;

color: #DCDFE6;
}

div.validator {
}
</style>
</head>
<body>
<div class="main_page">
<div class="page_header floating_element">

<a href="https://imgbb.com/"></a>
</div>
<div class="content_section floating_element">

<div class="section_header section_header_red">
<div id="about"></div>
Curso de D0407-AUTOMATION WITH ANSIBLE I
</div>
<div class="content_section_text">
{% if ansible_distribution == "CentOS" %}

<p>

```

Esta es la página de bienvenida predeterminada para probar el correcto funcionamiento del servidor Apache2 después de la instalación en los sistemas `{{ ansible_distribution_version }}`. Se basa en la página equivalente en centos. Si puede leer esta página, significa que el servidor HTTP Apache instalado en este sitio funciona correctamente. Debe reemplazar este archivo (ubicado en `/var/www/html/index.html`) antes de continuar operando su servidor HTTP.

El usuario de configuración de este sitio web es `ansible`. El servidor desde donde se muestra este contenido es `{{ ansible_hostname }}` con la ip `{{ ansible_default_ipv4.address }}` por el puerto 80. You should **replace this file** (located at

`<tt>/var/www/html/index.html</tt>`) before continuing to operate your HTTP server.

```
</p>
{% endif %}

</div>
<div class="section_header">
  <div id="changes"></div>
  Datos del usuario {{ usuario }}
</div>
<div class="content_section_text">
  <p>
  <ul>
    <li> Hostname: {{ ansible_hostname }} </li>
    <li> IP V4: {{ ansible_default_ipv4.address }} </li>
    <li> DNS Servers: {{ ansible_dns.nameservers }} </li>
    <li> Kernel version: {{ ansible_kernel }} </li>
    <li> Centos distribution: {{ ansible_distribution_version }} </li>
    <li> Total de memoria: {{ ansible_memtotal_mb }} MBs </li>
    <li> The current free memory is: {{ ansible_memfree_mb }} MBs
</li>
    <li> Today's date is: {{ ansible_date_time.date }}. </li>
  </ul>
  </p>

  <pre>/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
  </pre>
  <ul>
    <li>
      <tt>apache2.conf</tt> is the main configuration
      file. It puts the pieces together by including all
      remaining configuration
      files when starting up the web server.
    </li>
  </ul>
</div>
```

```

<li>
  <tt>ports.conf</tt> is always included from the
  main configuration file. It is used to determine
the listening ports for
  incoming connections, and this file can be
customized anytime.
</li>

<li>
  Configuration files in the <tt>mods-enabled</tt>,
  <tt>conf-enabled</tt> and <tt>sites-enabled</tt>
directories contain
  particular configuration snippets which manage
modules, global configuration
  fragments, or virtual host configurations,
respectively.
</li>

<li>
  They are activated by symlinking available
  configuration files from their respective
  *-available/ counterparts. These should be managed
  by using our helpers
  <tt>
    <a
href="http://manpages.debian.org/cgi-bin/man.cgi?query=a2enmod">a2enmod</a>,
    <a
href="http://manpages.debian.org/cgi-bin/man.cgi?query=a2dismod">a2dismod</a>,
  </tt>
  <tt>
    <a
href="http://manpages.debian.org/cgi-bin/man.cgi?query=a2ensite">a2ensite</a>,
    <a
href="http://manpages.debian.org/cgi-bin/man.cgi?query=a2dissite">a2dissite</a
>,
  </tt>
  and
  <tt>
    <a
href="http://manpages.debian.org/cgi-bin/man.cgi?query=a2enconf">a2enconf</a>,
    <a
href="http://manpages.debian.org/cgi-bin/man.cgi?query=a2disconf">a2disconf</a
>
  </tt>. See their respective man pages for detailed
information.
</li>

<li>
  The binary is called apache2. Due to the use of
  environment variables, in the default
configuration, apache2 needs to be
  started/stopped with <tt>/etc/init.d/apache2</tt>
or <tt>apache2ctl</tt>.
  <b>Calling <tt>/usr/bin/apache2</tt> directly will
  not work</b> with the

```

```
                default configuration.
            </li>
        </ul>
    </div>

    <div class="section_header">
        <div id="docroot"></div>
        Document Roots
    </div>

    <div class="content_section_text">
        <p>
            By default, Ubuntu does not allow access through the web
browser to
            <em>any</em> file apart of those located in <tt>/var/www</tt>,
            <a
href="http://httpd.apache.org/docs/2.4/mod/mod_userdir.html">public_html</a>
            directories (when enabled) and <tt>/usr/share</tt> (for web
            applications). If your site is using a web document root
            located elsewhere (such as in <tt>/srv</tt>) you may need to
whitelist your
            document root directory in <tt>/etc/apache2/apache2.conf</tt>.
        </p>
        <p>
            The default Ubuntu document root is <tt>/var/www/html</tt>.
You
            can make your own virtual hosts under /var/www. This is
different
            to previous releases which provides better security out of the
            box.
        </p>
    </div>

    <div class="section_header">
        <div id="bugs"></div>
        Reporting Problems
    </div>
    <div class="content_section_text">
        <p>
            Please use the <tt>ubuntu-bug</tt> tool to report bugs in the
            Apache2 package with Ubuntu. However, check <a
href="https://bugs.launchpad.net/ubuntu/+source/apache2">existing
            bug reports</a> before reporting a new bug.
        </p>
        <p>
            Please report bugs specific to modules (such as PHP and
others)
            to respective packages, not to the web server itself.
        </p>
    </div>
</div>
<div class="validator">
<p>
```

```
<a href="http://validator.w3.org/check?uri=referer"></a>
</p>
</div>
</body>
</html>
```

```
- hosts: clientes
  remote_user: root
  vars:
    system_owner: usuario@example.com
    usuario: Usuario-Berto
  tasks:
    - template:
      src: /etc/ansible/templates/index.html.j2
      dest: /var/www/html/index.html
      owner: root
      group: root
      mode: 0644
    - name: httpd is running and enabled
      service:
        name: httpd
        state: restarted
```

- listado de variables (ansible_facts):

```
ansible clientes -m setup | grep ansible_
```

- https://docs.ansible.com/ansible/latest/user_guide/playbooks_vars_facts.html

roles

- ./Material Curso Ansible/Curso Ansible 2020.pdf pag 95
- ./Material Curso Ansible/DO407-AUTOMATION WITH ANSIBLE I.pdf pag 117
- ./Material Curso Ansible/

Los roles permiten organizar los playbooks y separarlos en ficheros más pequeños. Los roles proporcionan a Ansible una forma de utilizar tareas, handlers y variables desde archivos externos. Los archivos estáticos y las plantillas también se pueden asociar y hacer referencia mediante un rol.

- estructura
 - defaults
 - main.yml
 - files
 - handlers
 - main.yml
 - meta
 - main.yml
 - tasks

- main.yml
- templates
- tests
 - inventory
 - test.yml
- vars
 - main.yml
- README.md

ansible galaxy

- ./Material Curso Ansible/Curso Ansible 2020.pdf pag 207
- ./Material Curso Ansible/DO407-AUTOMATION WITH ANSIBLE I.pdf pag 108
- <https://galaxy.ansible.com>

- <https://galaxy.ansible.com/zaxos/tomcat-ansible-role>

```
ansible-galaxy role --help
ansible-galaxy install zaxos.tomcat-ansible-role
ansible-galaxy list
ansible-galaxy init
```

; [playbook-tomcat.yml](#)

```
---
- hosts: clientes
  user: root
  become: true
  vars:
    tomcat_version: 8.5.23
    tomcat_permissions_production: True
    tomcat_users:
      - username: "tomcat"
        password: "t3mpp@ssw0rd"
        roles: "tomcat,admin,manager,manager-gui"
      - username: "exampleuser"
        password: "us3rp@ssw0rd"
        roles: "tomcat"
  roles:
    - role: zaxos.tomcat-ansible-role
...

```

- ./Material Curso Ansible/roles ansible para laboratorios/docker-wp-jm-ansible

- usar ansible para personalizar un docker-compose.yml que se lanzará en los ndoos destino

- ./Material Curso Ansible/roles ansible para laboratorios/password-role

windows

- ./Material Curso Ansible/Curso Ansible 2020.pdf pag 207
- ./Material Curso Ansible/DO407-AUTOMATION WITH ANSIBLE I.pdf pag 108
- <https://galaxy.ansible.com>

Extra

- <https://image.ibb.co/>
- kubernetes: <https://galaxy.ansible.com/kubernetes/core>

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