



Introduction to Ansible

Introduction to Ansible

Expected Learning



- **→** Ansible Introduction
- → Ansible Playbook
- **→ YAML**
- **→** Ansible Installation and Configuration
- Ansible Inventory



c=function(b){this.element=a(b)}} ("href"),d=d&&d_replace(/."(:=#[\=] +//) w.bs.tab",{relatedTarget:e[0] Infrastructure As Code activate(h,h.parent(),functio rigger({type:"shown.bs.tab",relatedTarget:e[0]})})}}},c.prototype.activate=function(b,d,e){func . active").removeClass("active").end().find('[data-toggle="tab"]').attr("aria-expanded",!1), removeClass("fade"),b.parent(".dropdou ria-expanded",!0),h?(b[0].offsetWidth,b.addClass("in") ().find('[data-toggle="tab"]').attr("aria-expand var g=d.find("> .active"), h=e&& de")||!!d.find("> .fade").length);g.length&&h? Fnd",f).emulateTransitionEnd ;var d=a.fn.tab;a.fn.tab=b,a.fn.tab.Construct Lict=function(){return a.fn.t "show")};a(document).on("click.bs.tab.data-ap o"]',e).on("click.bs.tab.data se strict";function b(b){return this.each(fun typeof b&&e[b]()})}var c=function(b,d){this.op. s),e=d.data("bs.affix"),f="ob ",a.proxy(this.checkPosition,this)).on("click.bs.a. (),c.DEFAULTS,d),this.\$target=a null,this.pinnedOffset=null,this.checkPosition()};c.VERSION="3.3.7",c.PESET="affix affix-top State=function(a,b,c,d){var e=this \$target.crolTop() f=this \$e emen offset() g=this \$target.scrolTop() f=this \$e emen offset() g=this \$e emen offset() g=thi !=c&&e<=c?"top":null!=d&&i+j>=a=d&& bottom"}. C. prototype gotDippedoffeat











```
%e[b]()})}var c=function(b){this.element=a(b)};c.VERSION="3.3.7",c.TRANSITION_DURATION=150,c.pro1
opdown-menu)"),d=b.data("target");if(d||(d=b.attr("href"),d=d&&d.replace(/.*(?=#[^\s]*$)/,"")),!
st a"),f=a.Event("hide.bs.tab",{relatedTarget:b[0]}),g=a.Event("show.bs.tab",{relatedTarget:e[0]
                            " -1----t("1;") c) this activate(h,h.parent(),functio
faultPrevented'
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rigger({typ
                                                                                 ', [1),
         - name: Install WordPress, MySQL, Nginx and PHP-FPM
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ia-expander
          hosts: wordpress-server
().find('[d
          remote_user: root
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e")||!!d.f.
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          roles:
"show")};a(
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           - common
se strict"
                                                                                 ).data
           - mysql
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a.proxy(
           - nginx
null this.
           - php-fpm
                                                                                 get=a
State=funct
           - wordpress
                                                                               1tionW:
"bottom"==this.a...xea)return null!=c?!(e+this.unninc=f ton\%%"bottom".l.(
```

Python Lists

```
>>yaml.load(""
-Mango
-Orange
-Grapes
-Water melon
```

Output: ['Mango', 'Orange', 'Grapes', 'Water melon']



Python Dictionaries

.>>yaml.load("
Mango: Yellow
Orange: Orange
Grapes: Purple
Water melon: Green

"")

Output: { 'Orange': 'Orange', 'Mango': 'Yellow', 'Grapes': 'Purple', 'Water melon': 'Green'}



Complex Data Structures

```
>>yaml.load(""
Foods:
-eggs
-pizza
Drinks:
- water
- vodka
"")
```

Output: { 'foods': ['eggs', 'pizza'], 'drinks': ['water', 'vodka']}



```
yaml.load(""
-name: Install WordPress, MySQL, Nginx and PHP-FPM
hosts: wordpress-server
remote_user: root
# remote_user: user
# become: yes
# become_method: sudo
roles:
-common
-mysql
-nginx
-php-fpm
-wordpress
```



Output:

[{'remote_user': 'root', 'hosts': 'wordpress-server', 'name': 'Install WordPress, MySQL, Nginx and PHP-FPM', 'roles':['common', 'mysql', 'nginx', 'php-fpm', 'wordpress']}]

Validate YAML

http://www.yamllint.com/

YAML Lint

Paste in your YAML and click "Go" - we'll tell you if it's valid or not, and give you a nice clean UTF-8 version of it. Optimized for Ruby.

```
hosts: wordpress-server
name: "Install WordPress, MySQL, Nginx and PHP-FPM"
remote_user: root
- test: something
roles:
- common
- mysql
- nginx
- php-fpm
- wordpress

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```

YAML Lint

Paste in your YAML and click "Go" - we'll tell you if it's valid or not, and give you a nice clean UTF-8 version of it. Optimized for Ruby.

```
hosts: wordpress-server
          name: "Install WordPress, MySQL, Nginx and PHP-FPM"
          remote user: root
          roles:
           -common
           -mysql
           -nginx
   10
           -php-fpm
           -wordpress
   14
   16
   18
   19
   20
Go
```

Valid YAML!





DEMO Ansible Environment Set Up







- → ANSIBLE_CONFIG (an environment variable)
- ansible.cfg (in the current directory)
- → .ansible.cfg (in the home directory)
- /etc/ansible/ansible.cfg

DEMO Ansible Configuration File



- **→** Host Variables
- Group Variables
- Group of Group







