

Kapitel 1

Refactoring MySQL Rolle

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diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
/ansible.cfg B03800_05_code/ansible.cfg
--- B03800_03_code/projects/ansible.cfg 1970-01-01 01:00:00.000000000
+0100
+++ B03800_05_code/ansible.cfg 2016-03-14 20:54:56.319447127 +0100
@@ -0,0 +1,3 @@
+# ansible.cfg
+# http://docs.ansible.com/ansible/intro_configuration.html#hash-
behaviour
+hash_behaviour=merge
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
/db.yml B03800_05_code/db.yml
--- B03800_03_code/projects/db.yml 2016-03-07 21:56:50.053304805 +0100
+++ B03800_05_code/db.yml 2016-03-14 21:03:16.000000000 +0100
@@ -5,8 +5,12 @@
remote_user: vagrant
sudo: yes
roles:
- - { role: mysql, mysql_bind: "{{ ansible_eth1.ipv4.address }}" }
-
+ - { role: mysql }
+ vars:
+ mysql:
+ server: true
+ config:
+ bind: "{{ ansible_eth1.ipv4.address }}"

diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
/roles/mysql/defaults/main.yml B03800_05_code/roles/mysql/defaults/
main.yml
--- B03800_03_code/projects/roles/mysql/defaults/main.yml 2016-03-07
21:56:50.057304804 +0100
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+++ B03800_05_code/roles/mysql/defaults/main.yml      2016-03-07
    21:56:50.069304804 +0100
@@ -1,10 +1,16 @@
---
-mysql_user: mysql
-mysql_port: 3306
-mysql_datadir: /var/lib/mysql
-mysql_bind: 127.0.0.1
-mysql_pkg: mysql-server
-mysql_pid: /var/run/mysqld/mysqld.pid
-mysql_socket: /var/run/mysqld/mysqld.sock
-mysql_cnfp_path: /etc/mysql/my.cnf
-mysql_service: mysql
\ No newline at end of file
+mysql:
+  config:
+    user: mysql
+    port: 3306
+    datadir: /var/lib/mysql
+    bind: 127.0.0.1
+    pid: /var/run/mysqld/mysqld.pid
+    socket: /var/run/mysqld/mysqld.sock
+    cnfp_path: /etc/mysql/my.cnf
+    service: mysql
+    pkg:
+      server: mysql-server
+      client: mysql-client
+      python: python-mysqldb
+    server: false
\ No newline at end of file
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/mysql/handlers/main.yml B03800_05_code/roles/mysql/handlers/
    main.yml
--- B03800_03_code/projects/roles/mysql/handlers/main.yml      2016-03-07
    21:56:50.057304804 +0100
+++ B03800_05_code/roles/mysql/handlers/main.yml      2016-03-07
    21:56:50.069304804 +0100
@@ -1,5 +1,5 @@
---
# handlers file for mysql
- name: restart mysql service
- service: name="{ mysql_service }}" state=restarted
+ service: name="{ mysql['service'] }}" state=restarted

diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/mysql/tasks/configure.yml B03800_05_code/roles/mysql/tasks/
    configure.yml
--- B03800_03_code/projects/roles/mysql/tasks/configure.yml    2016-03-07
    21:56:50.057304804 +0100
+++ B03800_05_code/roles/mysql/tasks/configure.yml    2016-03-14
    20:47:19.000000000 +0100

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@@ -1,7 +1,7 @@
---
# filename: roles/mysql/tasks/configure.yml
- name: create mysql config
- template: src="my.cnf.j2" dest="{{ mysql_cnfp_path }}" mode=0644
+ template: src="my.cnf.j2" dest="{{ mysql['config']['cnfp_path'] }}"
  mode=0644
  notify:
    - restart mysql service

diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
/roles/mysql/tasks/install_Debian.yml B03800_05_code/roles/mysql/
tasks/install_Debian.yml
--- B03800_03_code/projects/roles/mysql/tasks/install_Debian.yml
2016-03-07 21:56:50.057304804 +0100
+++ B03800_05_code/roles/mysql/tasks/install_Debian.yml 2016-03-07
21:56:50.069304804 +0100
@@ -1,8 +1,17 @@
---
# filename: roles/mysql/tasks/install_Debian.yml

+ - name: install mysql client
+   apt:
+     name: "{{ mysql['pkg']['client'] }}"
+     update_cache: yes
+
-   name: install mysql server
-   apt:
-     name: "{{ mysql_pkg }}"
+   name: "{{ mysql['pkg']['server'] }}"
+     update_cache: yes
+   when: mysql.server

+ - name: install mysql python binding
+   apt:
+     name: "{{ mysql['pkg']['python'] }}"

diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
/roles/mysql/tasks/install_RedHat.yml B03800_05_code/roles/mysql/
tasks/install_RedHat.yml
--- B03800_03_code/projects/roles/mysql/tasks/install_RedHat.yml
2016-03-07 21:56:50.057304804 +0100
+++ B03800_05_code/roles/mysql/tasks/install_RedHat.yml 2016-03-07
21:56:50.069304804 +0100
@@ -1,9 +1,10 @@
---
# filename: roles/mysql/tasks/install_RedHat.yml
- name: install mysql server
- yum:
-   name: "{{ mysql_pkg }}"
+ yum:
+   name: "{{ mysql['pkg']['server'] }}"

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+   when: mysql.server

-- name: install libselinux-python
-   yum:
-       name: "libselinux-python"
+- name: install mysql python binding
+   apt:
+       name: "{{ mysql['pkg']['python'] }}"
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/mysql/tasks/main.yml B03800_05_code/roles/mysql/tasks/main.yml
--- B03800_03_code/projects/roles/mysql/tasks/main.yml    2016-03-07
    21:56:50.057304804 +0100
+++ B03800_05_code/roles/mysql/tasks/main.yml    2016-03-07
    21:56:50.069304804 +0100
@@ -13,4 +13,7 @@
    when: ansible_os_family == 'Debian'

-   include: configure.yml
+   when: mysql.server
+
-   include: service.yml
+   when: mysql.server
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/mysql/tasks/service.yml B03800_05_code/roles/mysql/tasks/
    service.yml
--- B03800_03_code/projects/roles/mysql/tasks/service.yml    2016-03-07
    21:56:50.057304804 +0100
+++ B03800_05_code/roles/mysql/tasks/service.yml    2016-03-07
    21:56:50.069304804 +0100
@@ -1,4 +1,6 @@
---
# filename: roles/mysql/tasks/service.yml
-   name: start mysql server
-   service: name="{{ mysql_service }}" state=started
+   service:
+       name: "{{ mysql['service'] }}"
+       state: started
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/mysql/templates/my.cnf.j2 B03800_05_code/roles/mysql/templates
    /my.cnf.j2
--- B03800_03_code/projects/roles/mysql/templates/my.cnf.j2    2016-03-07
    21:56:50.057304804 +0100
+++ B03800_05_code/roles/mysql/templates/my.cnf.j2    2016-03-07
    21:56:50.069304804 +0100
@@ -3,10 +3,20 @@
# filename: roles/mysql/templates/my.cnf.j2

[mysqld]
-user          = {{ mysql_user | default("mysql") }}
-pid-file      = {{ mysql_pid }}
-socket        = {{ mysql_socket }}

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-port          = {{ mysql_port }}
-datadir       = {{ mysql_datadir }}
-bind-address = {{ mysql_bind }}
+user          = {{ mysql['config']['user'] | default("mysql") }}
+{% if mysql.config.pid is defined %}
+pid-file      = {{ mysql['config']['pid'] }}
+{% endif %}
+{% if mysql.config.pid is defined %}
+socket        = {{ mysql['config']['socket'] }}
+{% endif %}
+{% if mysql.config.pid is defined %}
+port          = {{ mysql['config']['port'] }}
+{% endif %}
+{% if mysql.config.pid is defined %}
+datadir       = {{ mysql['config']['datadir'] }}
+{% endif %}
+{% if mysql.config.pid is defined %}
+bind-address = {{ mysql['config']['bind'] }}
+{% endif %}

diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/mysql/vars/RedHat.yml B03800_05_code/roles/mysql/vars/RedHat.
    yml
--- B03800_03_code/projects/roles/mysql/vars/RedHat.yml 2016-03-08
    20:18:14.289339999 +0100
+++ B03800_05_code/roles/mysql/vars/RedHat.yml 2016-03-14
    21:04:59.000000000 +0100
@@ -1,8 +1,11 @@
---
# RedHat Specific Configs.
# roles/mysql/vars/RedHat.yml
-mysql_socket: /var/lib/mysql/mysql.sock
-mysql_cnfp_path: /etc/my.cnf.d/my.cnf
-mysql_service: mariadb
-mysql_bind: 0.0.0.0
-mysql_pkg: mariadb-server
+mysql:
+  config:
+    socket: /var/lib/mysql/mysql.sock
+    cnfp_path: /etc/my.cnf
+    bind: 0.0.0.0
+  pkg:
+    python: MySQL-python
+    service: mysqld
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/nginx/templates/index.html.j2 B03800_05_code/roles/nginx/
    templates/index.html.j2
--- B03800_03_code/projects/roles/nginx/templates/index.html.j2
    1970-01-01 01:00:00.000000000 +0100
+++ B03800_05_code/roles/nginx/templates/index.html.j2 2016-03-07
    21:56:50.073304804 +0100

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```

@@ -0,0 +1,5 @@
+<html>
+ <body>
+   <h1> Welcome to {{ item.value.name }} </h1>
+ </body>
+</html>
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /roles/wordpress/templates/wp-config.php.j2 B03800_05_code/roles/
    wordpress/templates/wp-config.php.j2
--- B03800_03_code/projects/roles/wordpress/templates/wp-config.php.j2
    2016-03-14 20:17:14.255352326 +0100
+++ B03800_05_code/roles/wordpress/templates/wp-config.php.j2
    2016-03-07 21:56:50.073304804 +0100
@@ -1,6 +1,6 @@
<?php
-define('DB_NAME', 'wp_dbname');
-define('DB_USER', 'wp_dbuser');
+define('DB_NAME', '{{ wp_dbname }}');
+define('DB_USER', '{{ wp_dbuser }}');
    define('DB_PASSWORD', '{{ wp_dbpass }}');
    define('DB_HOST', '{{ wp_dbhost }}');
    define('DB_CHARSET', 'utf8');
diff -U 3 -H -d -r -N -x '*.diff' -x '*meta*' -- B03800_03_code/projects
    /www.yml B03800_05_code/www.yml
--- B03800_03_code/projects/www.yml 2016-03-14 20:05:34.995323021 +0100
+++ B03800_05_code/www.yml 2016-03-14 21:03:16.000000000 +0100
@@ -5,7 +5,7 @@
    pre_tasks:
      - shell: echo 'I':" Beginning to configure web server..'
    roles:
-     - nginx
+     - { role: nginx, when: ansible_os_family == 'Debian' }
      - wordpress
    post_tasks:
      - shell: echo 'I':" Done configuring nginx web server...'

```