

```
1 heat_template_version: 2013-05-23
2
3- description: >
4   An example Heat Orchestration Template (HOT).
5   WordPress is web software you can use to create a beautiful website
6   or blog. This template installs two instances: one running a
7   WordPress deployment and the other using a local MySQL database to
8   store the data.
9
10 parameters:
11
12-   key_name:
13     type: string
14     description: Name of a KeyPair to enable SSH access to the instance
15     default: test_key
16
17-   instance_type:
18     type: string
19     description: Instance type for web and DB servers
20     default: m1.small
21-   constraints:
22-     - allowed_values: [m1.tiny, m1.small, m1.medium, m1.large, m1.xlarge]
23       description: instance_type must be a valid instance type
24
25-   image_id:
26     type: string
27-   description: >
28     Name or ID of the image to use for the WordPress server.
29     Recommended values are fedora-20.i386 or fedora-20.x86_64;
30     get them from http://cloud.fedoraproject.org/fedora-20.i386.qcow2
31     or http://cloud.fedoraproject.org/fedora-20.x86\_64.qcow2 .
32     default: fedora-20.x86_64
33
34-   db_name:
35     type: string
36     description: WordPress database name
```

```
36 description: WordPress database name
37 default: wordpress
38 constraints:
39   - length: { min: 1, max: 64 }
40     description: db_name must be between 1 and 64 characters
41   - allowed_pattern: '[a-zA-Z][a-zA-Z0-9]*'
42     description: >
43       db_name must begin with a letter and contain only alphanumeric
44       characters
45
46 db_username:
47   type: string
48   description: The WordPress database admin account username
49   default: admin
50   hidden: true
51   constraints:
52     - length: { min: 1, max: 16 }
53       description: db_username must be between 1 and 16 characters
54     - allowed_pattern: '[a-zA-Z][a-zA-Z0-9]*'
55       description: >
56         db_username must begin with a letter and contain only alphanumeric
57         characters
58
59 db_password:
60   type: string
61   description: The WordPress database admin account password
62   default: admin
63   hidden: true
64   constraints:
65     - length: { min: 1, max: 41 }
66       description: db_password must be between 1 and 41 characters
67     - allowed_pattern: '[a-zA-Z0-9]*'
68       description: db_password must contain only alphanumeric characters
69
70 db_root_password:
71   type: string
```

```
71     type: string
72     description: Root password for MySQL
73     default: admin
74     hidden: true
75     constraints:
76     - length: { min: 1, max: 41 }
77       description: db_root_password must be between 1 and 41 characters
78     - allowed_pattern: '[a-zA-Z0-9]*'
79       description: db_root_password must contain only alphanumeric characters
80
81
82 resources:
83 DatabaseServer:
84     type: OS::Nova::Server
85     properties:
86         image: { get_param: image_id }
87         flavor: { get_param: instance_type }
88         key_name: { get_param: key_name }
89         user_data:
90             str_replace:
91                 template: |
92                     #!/bin/bash -v
93
94                     yum -y install mariadb mariadb-server
95                     touch /var/log/mariadb/mariadb.log
96                     chown mysql:mysql /var/log/mariadb/mariadb.log
97                     systemctl start mariadb.service
98
99                     # Setup MySQL root password and create a user
100                     mysqladmin -u root password db_rootpassword
101                     cat << EOF | mysql -u root --password=db_rootpassword
102                     CREATE DATABASE db_name;
103                     GRANT ALL PRIVILEGES ON db_name.* TO "db_user"@"%"
104                     IDENTIFIED BY "db_password";
105                     FLUSH PRIVILEGES;
106                     EXIT
```

```
106         EXIT
107         EOF
108     params:
109         db_rootpassword: { get_param: db_root_password }
110         db_name: { get_param: db_name }
111         db_user: { get_param: db_username }
112         db_password: { get_param: db_password }
113
114     WebServer:
115         type: OS::Nova::Server
116         properties:
117             image: { get_param: image_id }
118             flavor: { get_param: instance_type }
119             key_name: { get_param: key_name }
120             user_data:
121                 str_replace:
122                     template: |
123                         #!/bin/bash -v
124
125                         yum -y install httpd wordpress
126
127                         sed -i "/Deny from All/d" /etc/httpd/conf.d/wordpress.conf
128                         sed -i "s/Require local/Require all granted/" /etc/httpd/conf.d/wordpress.conf
129                         sed -i s/database_name_here/db_name/ /etc/wordpress/wp-config.php
130                         sed -i s/username_here/db_user/ /etc/wordpress/wp-config.php
131                         sed -i s/password_here/db_password/ /etc/wordpress/wp-config.php
132                         sed -i s/localhost/db_ipaddr/ /etc/wordpress/wp-config.php
133                         setenforce 0 # Otherwise net traffic with DB is disabled
134                         systemctl start httpd.service
135         params:
136             db_rootpassword: { get_param: db_root_password }
137             db_name: { get_param: db_name }
138             db_user: { get_param: db_username }
139             db_password: { get_param: db_password }
140             db_ipaddr: { get_attr: [DatabaseServer, networks, private, 0] }
```

```
120-   user_data:
121-     str_replace:
122-       template: |
123-         #!/bin/bash -v
124-
125-         yum -y install httpd wordpress
126-
127-         sed -i "/Deny from All/d" /etc/httpd/conf.d/wordpress.conf
128-         sed -i "s/Require local/Require all granted/" /etc/httpd/conf.d/wordpress.conf
129-         sed -i s/database_name_here/db_name/ /etc/wordpress/wp-config.php
130-         sed -i s/username_here/db_user/ /etc/wordpress/wp-config.php
131-         sed -i s/password_here/db_password/ /etc/wordpress/wp-config.php
132-         sed -i s/localhost/db_ipaddr/ /etc/wordpress/wp-config.php
133-         setenforce 0 # Otherwise net traffic with DB is disabled
134-         systemctl start httpd.service
135-     params:
136-       db_rootpassword: { get_param: db_root_password }
137-       db_name: { get_param: db_name }
138-       db_user: { get_param: db_username }
139-       db_password: { get_param: db_password }
140-       db_ipaddr: { get_attr: [DatabaseServer, networks, private, 0] }
141-
142- outputs:
143-   WebsiteURL:
144-     description: URL for Wordpress wiki
145-     value:
146-       str_replace:
147-         template: http://host/wordpress
148-         params:
149-           host: { get_attr: [WebServer, networks, private, 0] }
```