

Web Runbook

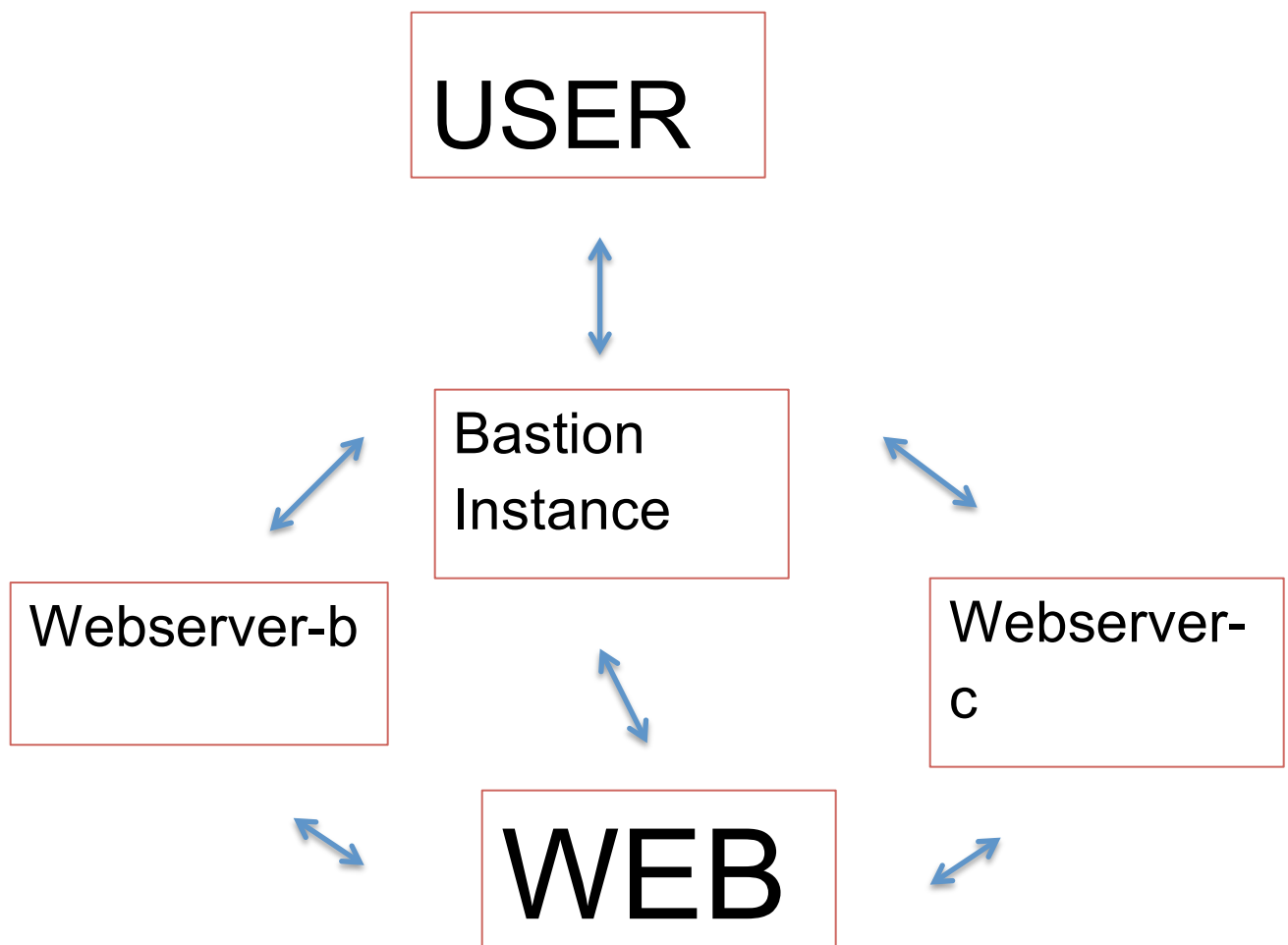
Short Description

Installs php, and nginx services while booting them properly

Required Software

epel-release, nginx, php56, php56-fpm, php56-ldap, php56-mbstring, php56-mcrypt, php56-mysql, composer

Architecture Diagram



Deployment

```
ansible-playbook -i hosts.ini web.yml --ask-vault-pass
```

```
Vault password: secret
```

```
PLAY [web]
```

```
*****  
*****
```

```
TASK [setup]
```

```
*****  
*****
```

```
ok: [localhost]
```

```
TASK [Installing epel-release and updates them using yum]
```

```
*****
```

```
yum: name=epel-release update_cache=yes state=present
```

```
ok: [localhost]
```

```
TASK [Installing nginx, php modules and updates them using  
yum] *****
```

```
become: yes
```

```
    yum: name=nginx,php,php-fpm,php-ldap,php-  
mbstring,php-mcrypt,php-mysql,php-phpunit-PHPUnit  
update_cache=yes state=present
```

```
    register: nginx_install
```

```
ok: [localhost]
```

```
TASK [Uninstalling php 5.39 and httpd]
```

```
*****
```

```
become: yes
```

```
    yum: name=php-common,httpd,httpd-tools state=absent
```

```
changed: [localhost]
```

```
TASK [Downloading updated repository]
```

become: yes

yum: name=https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm,https://mirror.webtatic.com/yum/el7/webtatic-release.rpm state=present
changed: [localhost]

TASK [Installing php 5.6 and httpd24]

become: yes

yum: name=php56,php56-fpm,php56-ldap,php56-mbstring,php56-mcrypt,php56-mysqlnd,httpd24 update_cache=yes state=present
changed: [localhost]

TASK [Downloading composer]

become: yes

get_url:
url: https://getcomposer.org/installer
dest: /tmp/installer

ok: [localhost]

TASK [Installing composer]

shell: cat /tmp/installer | php -- --install-dir=/usr/local/bin
changed: [localhost]

TASK [Copying nginx's configuration file to destination location] *****

become: yes

copy: src=web/nginx.conf dest=/etc/nginx/nginx.conf mode=0000
register: nginx_conf
changed: [localhost]

TASK [Templates vhost configuration files]

become: yes

template: src=web/vhost.conf.j2

dest=/etc/nginx/conf.d/{{ service_name }}.conf mode=0644

register: vhost_conf

changed: [localhost]

TASK [Templates php.ini file]

template: src=web/php.ini.j2 dest=/etc/php.ini mode=0644

register: php_conf

changed: [localhost]

TASK [Copying php configuration file into destined file]

become: yes

copy: src=web/php-fpm-web.conf dest=/etc/php-fpm-5.6.d/www.conf mode=0644

register: php_fpm_conf

changed: [localhost]

TASK [Starts nginx on boot]

become: yes

service: name=nginx state=restarted enabled=yes

when: nginx_install|changed or nginx_conf|changed or vhost_conf|changed

changed: [localhost]

TASK [Restarts FastCGI Process Manager when nginx is changed] *****

service: name=php-fpm state=restarted enabled=yes

when: nginx_install|changed or php_conf|changed or php_fpm_conf|changed

changed: [localhost]

TASK [Sets service_dir as a directory]

become: yes

file: path="{{ service_dir }}" state=directory

ok: [localhost]

TASK [Unpacking service_name.tgz to service_dir directory]

become: yes

unarchive: src=web/{{ service_name }}.tgz dest="{{ service_dir }}" mode=0755

changed: [localhost]

TASK [Updating composer directory]

become: yes

command: /usr/local/bin/composer update chdir="{{ service_dir }}"

changed: [localhost]

TASK [Change storage permissions to be RWX by everyone]

become: yes

file: path="{{ service_dir }}/storage mode=0777

changed: [localhost]

TASK [Changes Curriculum directory permissions]

become: yes

file: path="{{ service_dir }}" state=directory
recurse=yes mode=0777

changed: [localhost]

TASK [Changes owner of . to nginx]

become: yes

```
file: path={{ service_dir }}/. state=directory
recurse=yes group=nginx owner=nginx
changed: [localhost]
```

TASK [Templates env.j2 to service_dir]

```
become: yes
  template: src=web/env.j2 dest="{{ service_dir
}}/.env" mode=0644 owner=nginx
```

```
ok: [localhost]
```

Issues

Title: Disk Space

Description: The user doesn't have enough allocated space to download and install certain software.

Remediation Steps: Make more space by deleting unnecessary files that doesn't hinder the OS.

Title: Process Speed

Description: The user doesn't have enough processing speed to correctly install the software in the playbook.

Remediation Steps: Increase the VM processing speed in settings and add more base memory ram to increase speed.

Title: Unprotected Network

Description: Unprotected network connections are very unreliable and risky. Users might be connected to an unprotected network and have their computer compromised.

Remediation Steps: Make sure to have a VPN connection through the VM to hide your IP address. Even though you're already using a VM it's not unnecessary to be anonymous in an unprotected network.