Ansible SpeckleServer Role

ansible-role-speckleserver

This role installs SpeckleServer, a design and AEC data communication and collaboration platform.

Requirements

This is primarily designed to run on a Linux host, with a Redis cache and MongoDB NoSQL database. These can be provided externally (for instance in AWS or other cloud providers) or via other Ansible roles.

Supported Operating Systems

- Red Hat Enterprise 7 (including CentOS 7)
- Ubuntu LTS 16.04 ("xenial") and 18.04 ("bionic")
- Amazon Linux 2
- Debian 8 ("jessie") and 9 ("stretch")

Role Variables

```
speckleserver_version: Version of SpeckleServer to download and install. Can be a numbered version in major.minor.micro format or "latest" (default: latest) speckleadmin_version: Version of the SpeckleAdmin plugin to download and install. Can be a numbered version in major.minor.micro format speckleserver_server_name: A name for this SpeckleServer instance. speckleserver_url: The canonical web URL for this SpeckleServer instance (default: http://localhost/) speckleserver_public_streams: Allow streams to be publicly published (default: true) speckleserver_port: Port for SpeckleServer to listen on (default 3000) speckleserver_listen_ip: IP address to bind to (defaults to 127.0.0.1) speckleserver_session_secret: Session cookie secret: (default "changemeplease") speckleserver_mongodb_uri: MongoDB connection string: (default mongodb://localhost:27017/) speckleserver redis host: Redis hostname to connect to (default localhost)
```

speckleserver_redis_port: Redis port (default 6379)

Dependencies

There are no hard requirements as such aside a webserver to proxy the application traffic.

I would strongly suggest running this alongside a webservice role such as Jeff Geerling's Apache module (geerlingguy.apache) or NGINX Inc's nginx module (nginxinc.nginx)

Let's Encrypt's Certbot is also useful if you need SSL/TLS security on a public-facing instance (again, consider geerlingguy.certbot from Jeff Geerling)

If you need a MongoDB instance alongside this, I'd recommend undergreen.mongodb (covers RHEL/CentOS as well as Debian/Ubuntu). This is particularly useful in AWS regions where DocumentDB is not available.

These are all easily installable via the ansible-galaxy command (part of the base Ansible package) - eg. ansible-galaxy install geerlingguy.nginx

How to run

Ensure you have Ansible set up on your machine appropriately and the role is unpacked in a directory listed in roles_path

A playbook for setting up with nginx is provided: (speckleserver-with-nginx-playbook.yml).

Copy this to a new file eg. site-speckle.yml; tune the vars as required.

WARNING: Hosts / Virtual hosts in this playbook are only given as placeholders and will not work out-of-the-box. Customise them before running the playbook!

Note: You can also cut and drop the vars: stanza into group_vars/ or host_vars as you require.

Test the playbook

 $\verb"ansible-playbook -C site-speckle.yml"$

If it retrurns OK, run the play

ansible-playbook site-speckle.yml

Testing / Development

A Molecule test plan is provided.

You will need a local Docker setup and the Molecule test suite installed via pip (pip install --user molecule).

You will also need a functional Ansible setup of course :D molecule check performs a dry test run molecule test performs the full test suite

TODO

More idempotency / upgrade checks and tests.

Example Playbook

```
- hosts: servers
become: yes
become_method: sudo
become_user: root
roles:
    - { role: ansible-role-speckleserver }
vars:
    speckleserver_server_name: 'SpeckleServer Development Environment'
    speckleserver_url: 'http://speckle.example.com'
    speckleserver_mongodb_uri: 'mongodb://mongo.example.com:27017/speckle'
    speckleserver_redis_host: 'redis.example.com'
    speckleserver_version: "1.5.2"
    speckleadmin_version: "0.2.11"
```

License

BSD

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