Software Used:

- Packer (imaging)
- Ansible (provisioning image or infrastructure)
- awscli / cloudformation (mgmt / provisioning infrastructure)

Base Image:

us-	xenial	16.04	amd64	ebs-ssd	2017112	ami-6a	aki-919
east-1		LTS			1.1	2da510	dcaf8
us-	xenial	16.04	amd64	instanc	2017112	ami-2c	aki-919
east-1		LTS		e-store	1.1	33bb56	dcaf8
us-	xenial	16.04	amd64	hvm:eb	2017112	ami-	hvm **
east-1		LTS		s-ssd	1.1	aa2ea6	(using)
						d0	

^{** -} version used to utilize micro instance for testing

Steps Taken:

- Read & understand documentation for airflow installation/configuration (https://github.com/apache/incubator-airflow)
- Configured AWS profile
- Created 'aaron-test.pem' for system access (manual step)
- Created a basic directory structure for application
 - airflow.json (packer configuration file; variables, builders, provisioners)
 - airflow.yml (ansible playbook for building image, includes core service airflow[all] installation &configuration with applicable package dependencies, etc.)
 - airflow_cfn.json (CF template configuration for AWS resources)
 - airflow_params.json (parameters for CF template)
- Coding for cloudformation/ansible
 - intermediate builds/deploys for testing along the way

AWS Services used:

- ASG
- ELB
- Ended up doing redis/mysql on the single host to save some time. Intended to

allow the service to scale up or out if needed by using

- ElasticCache
- RDS
- Configuration items/files
 - DB, Service(s)

Results:

- Core Infrastructure provisions without error
- ELB has 0 instances active
 - Airflow service isn't started, initdb & web server startup & QA; seem to be the final steps however.