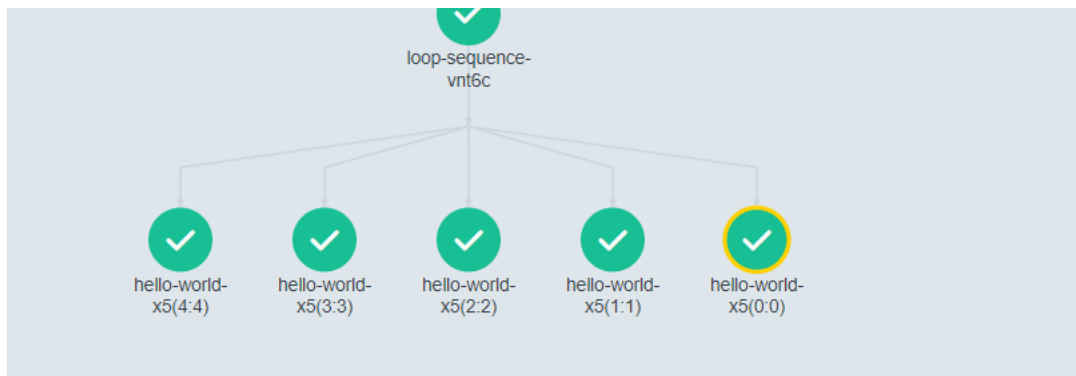


Lab 15: Iteration



```
apiVersion: argoproj.io/v1alpha1
kind: Workflow
metadata:
  generateName: loop-sequence-
  namespace: argo
spec:
  entrypoint: loop-sequence-example
  serviceAccountName: training

  templates:
    - name: loop-sequence-example
      steps:
        - name: hello-world-x5
          template: hello-world
          withSequence:
            count: "5"

    - name: hello-world
      container:
        image: docker/whalesay:latest
        command: [cowsay]
        args: ["hello world!"]
```

For items UI

```
apiVersion: argoproj.io/v1alpha1
kind: Workflow
metadata:
  generateName: loops-
```

```
namespace: argo

spec:
  entrypoint: loop-example
  serviceAccountName: training
  templates:
    - name: loop-example
      steps:
        - - name: print-message
            template: whalesay
            arguments:
              parameters:
                - name: message
                  value: "{{item}}"
            withItems:      # invoke whalesay once for each item in parallel
              - hello world    # item 1
              - goodbye world  # item 2

        - name: whalesay
          inputs:
            parameters:
              - name: message
            container:
              image: docker/whalesay:latest
              command: [cowsay]
              args: ["{{inputs.parameters.message}}"]
```

withItems more complex example

```
apiVersion: argoproj.io/v1alpha1
kind: Workflow
metadata:
  generateName: loops-maps-
  namespace: argo
spec:
  entrypoint: loop-map-example
  serviceAccountName: training
  templates:
    - name: loop-map-example # parameter specifies the list to iterate over
      steps:
        - - name: test-linux
            template: cat-os-release
            arguments:
              parameters:
                - name: image
                  value: "{{item.image}}"
                - name: tag
                  value: "{{item.tag}}"
            withItems:
              - { image: 'debian', tag: '9.1' }      #item set 1
              - { image: 'debian', tag: '8.9' }      #item set 2
              - { image: 'alpine', tag: '3.6' }      #item set 3
              - { image: 'ubuntu', tag: '17.10' }    #item set 4

        - name: cat-os-release
          inputs:
            parameters:
              - name: image
              - name: tag
          container:
            image: "{{inputs.parameters.image}}:{{inputs.parameters.tag}}"
            command: [cat]
            args: [/etc/os-release]
```