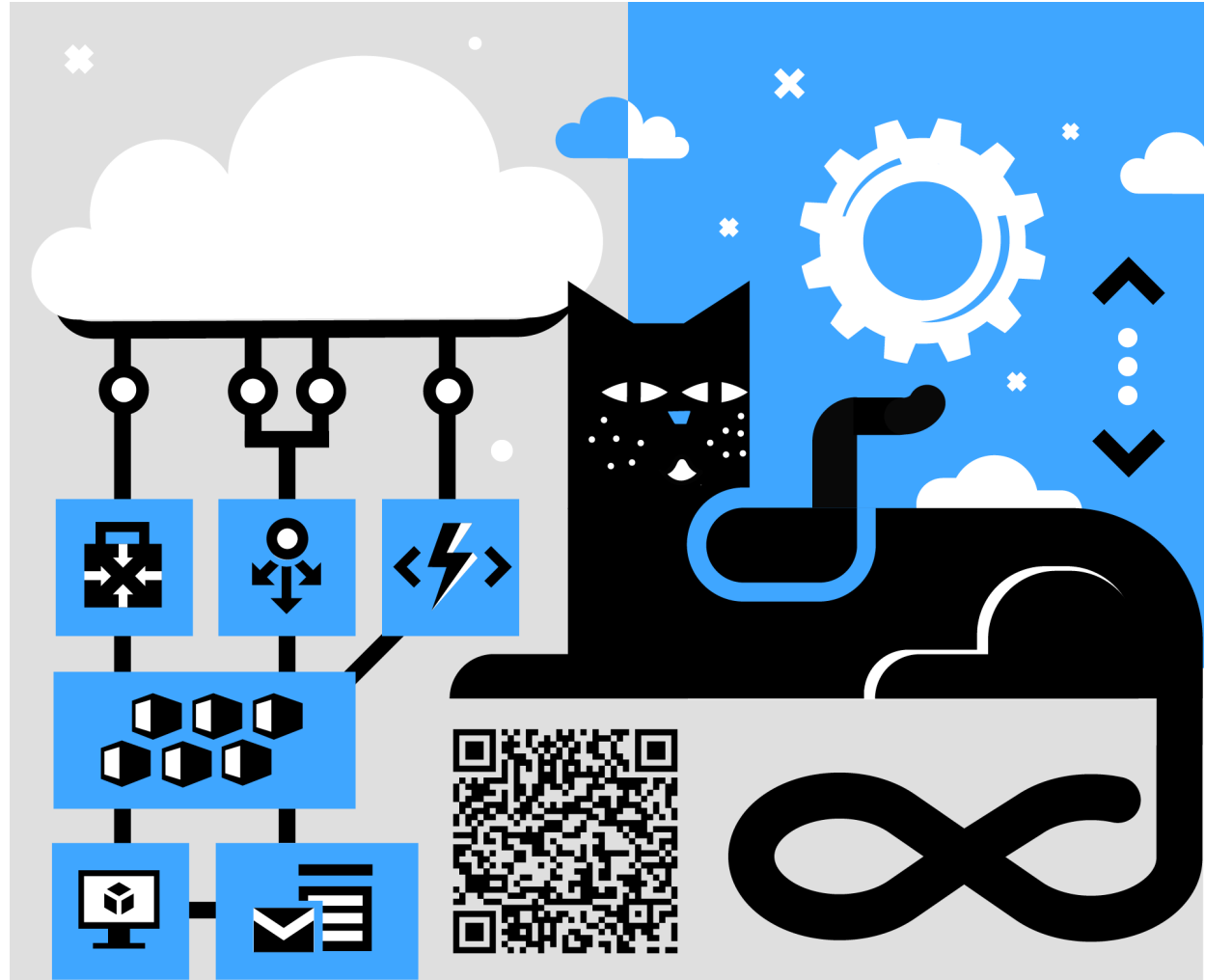


Infrastructure as code

Boushev Gleb, Azure
MVP



Solution features

Paramet
ers

Modules

Sanity
Checks

Debug

```
- vars/base.yml          # base import
- vars/environments/{{ dp }}.yml  # envs import
```

tasks:

```
- name: vars check
  fail: msg="{{ item }}" is wrong, please fix this"
  when:
    - vars[item] is undefined
  with_items:
    - dp
    - azure
    - k8s
    - targets
  tags: [ always ]
```

Debug task, requires -vv and --tags all or -vvvv

```
- name: Dump all vars
  action: template src=vars/dbg-vars.j2 dest={{ playbook_dir }}/logs/{{ dp }}.var
  tags: [ debug ]
```

Azure tasks include

```
- include_tasks: "{{ item }}/include.yml"
  with_items: "{{ targets }}"
  tags: [ clouds ]
```

k8s tasks include

```
- include_tasks: "k8s/include.yml"
  tags: [ k8s ]
```

Base file

```
azure:
  location: westeurope
  postgres:
    size: 5120
    skuName: M0_Gen5_2
    capacity: 2
    tier: MemoryOptimized
    version: "9.6"
  mysql:
    size: 5120
    skuName: B_Gen5_1
    capacity: 1
    tier: Basic
    version: "5.7"
  cosmos:
    placeholder: fake

k8s:
  version: "1.12.6"
  serviceCidr: "10.240.0.0/16"
  dnsServiceIP: "10.240.0.10"
  vnet: "10.100.0.0/23"
  vnetId: "/subscriptions/fake/resourceGroups/fake/providers/Microsoft.Network/virtualNetworks/fake"
  acrId: "/subscriptions/fake/resourceGroups/fake/providers/Microsoft.ContainerRegistry/registries/fake"
  types:
    - name: type1
      count: 2
      worker_size: Standard_DS2_v2
  extensions:
    - cert-manager
    - nginx-ingress
    - sealed-secret
    - prometheus
```

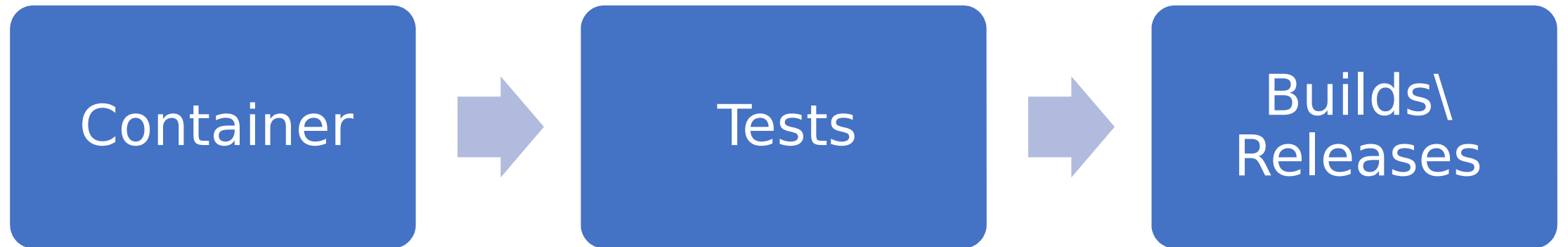
Env file

```
targets: [ 'azure' ]

azure:
  location: eastus

k8s:
  types:
    - name: type1
      count: 1
      worker_size: Standard_D2s_v3
    - name: type2
      count: 1
      worker_size: Standard_D2s_v3
```

Solution Development

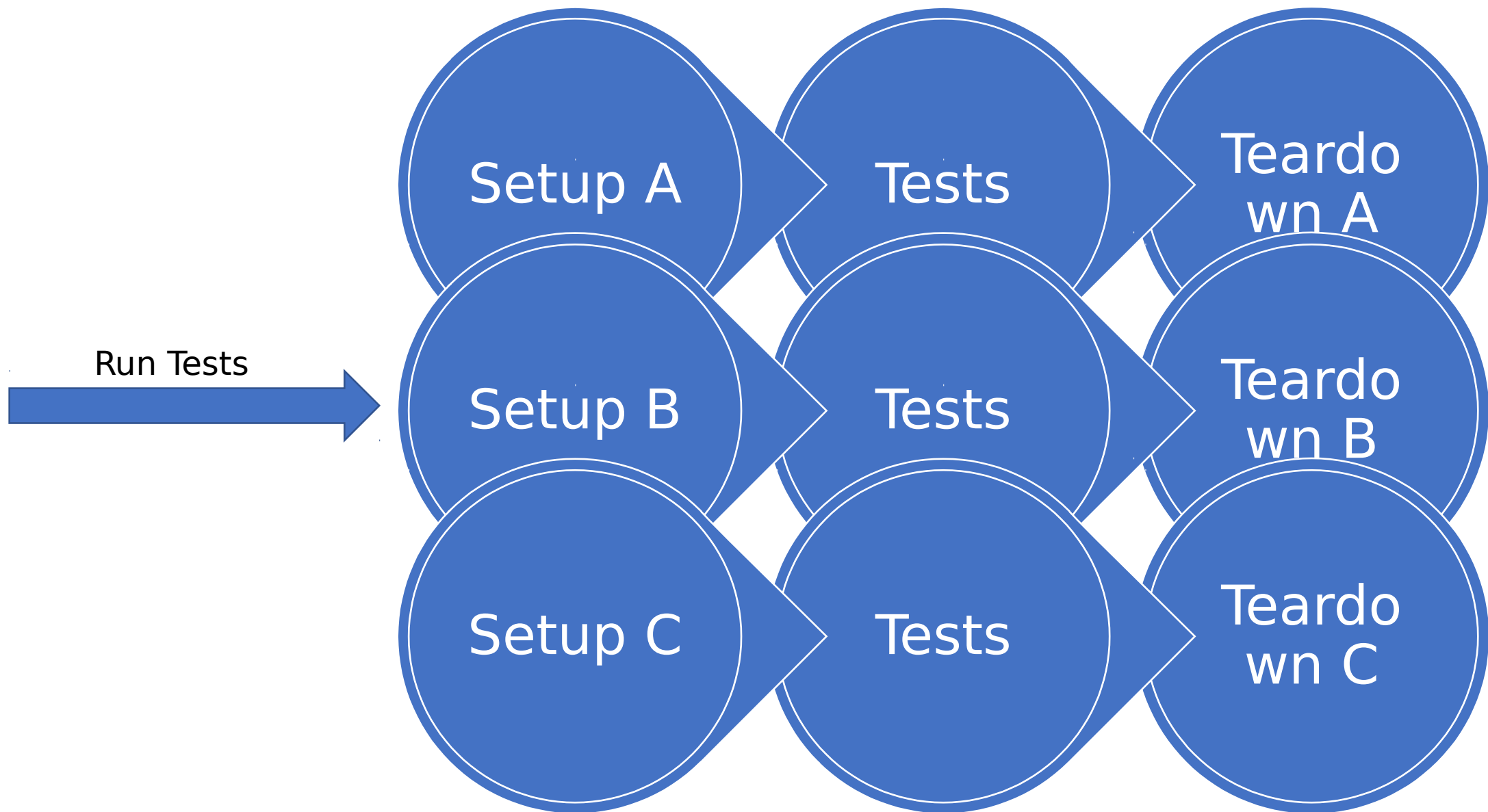


Testing Solution

Setup\
Teardown

Code reuse

Logging



Get code to the cloud. Faster.



SOURCE CODE

LANGUAGES

TOOLS

ENVIRONMENTS

GitHub

ATLASSIAN

GitLab

Visual Studio Team Services

TypeScript

GO

node

python™

VS Code

npm

Travis CI

circleci

Jenkins

aws

Azure

Google Cloud Platform

kubernetes

vmware vSphere

openstack.