



Automating F5 BIG-IP using Ansible

PRESENTED BY:

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Systems Engineer

WE MAKE APPS  FASTER.
SMARTER.
SAFER.

Ansible 2.4 Release Parties



meetup

F5-modules in Ansible 2.3

F5

- `bigip_device_dns` - Manage BIG-IP device DNS settings
- `bigip_device_ntp` - Manage NTP servers on a BIG-IP
- `bigip_device_sshd` - Manage the SSHD settings of a BIG-IP
- `bigip_facts` - Collect facts from F5 BIG-IP devices
- `bigip_gtm_datacenter` - Manage Datacenter configuration in BIG-IP
- `bigip_gtm_facts` - Collect facts from F5 BIG-IP GTM devices.
- `bigip_gtm_virtual_server` - Manages F5 BIG-IP GTM virtual servers
- `bigip_gtm_wide_ip` - Manages F5 BIG-IP GTM wide ip
- `bigip_hostname` - Manage the hostname of a BIG-IP.
- `bigip_irule` - Manage iRules across different modules on a BIG-IP.
- `bigip_monitor_http` - Manages F5 BIG-IP LTM http monitors
- `bigip_monitor_tcp` - Manages F5 BIG-IP LTM tcp monitors
- `bigip_node` - Manages F5 BIG-IP LTM nodes
- `bigip_pool` - Manages F5 BIG-IP LTM pools
- `bigip_pool_member` - Manages F5 BIG-IP LTM pool members
- `bigip_routedomain` - Manage route domains on a BIG-IP
- `bigip_selfip` - Manage Self-IPs on a BIG-IP system
- `bigip_snat_pool` - Manage SNAT pools on a BIG-IP.
- `bigip_ssl_certificate` - Import/Delete certificates from BIG-IP
- `bigip_sys_db` - Manage BIG-IP system database variables
- `bigip_sys_global` - Manage BIG-IP global settings.
- `bigip_virtual_server` - Manages F5 BIG-IP LTM virtual servers
- `bigip_vlan` - Manage VLANs on a BIG-IP system

Additional F5-modules in Ansible 2.4

- bigip_command.py
- bigip_config.py
- bigip_configsync_actions.py
- bigip_device_connectivity.py
- bigip_device_group.py
- bigip_dns_record_facts.py
- bigip_dns_record.py
- bigip_dns_zone.py
- bigip_drop_connection.py
- bigip_gtm_pool.py
- bigip_iapplx_package.py
- bigip_iapp_service.py
- bigip_iapp_template.py
- bigip_license.py
- bigip_partition.py
- bigip_policy.py
- bigip_policy_rule.py
- bigip_provision.py
- bigip_qkview.py
- bigip_remote_syslog.py
- bigip_routedomain_facts.py
- bigip_service.py
- bigip_snmp_community.py
- bigip_snmp.py
- bigip_snmp_trap.py
- bigip_snmp_user.py

We will use in demo

- bigip_software.py
- bigip_software_update.py
- bigip_static_route.py
- bigip_ucs_fetch.py
- bigip_ucs.py
- bigip_user_facts.py
- bigip_user.py
- bigip_view.py
- bigip_virtual_address.py
- bigiq_license_pool_member.py
- bigiq_license_pool.py
- f5_support_upload.py
- iworkflow_device.py
- iworkflow_iapp_template.py
- iworkflow_license_pool_member.py
- iworkflow_license_pool.py
- iworkflow_license.py
- iworkflow_local_connector_device.py
- iworkflow_local_connector_node.py
- iworkflow_local_connector.py
- iworkflow_service.py
- iworkflow_service_template.py
- iworkflow_system_setup.py
- iworkflow_tenant_connector.py
- iworkflow_tenant.py
- iworkflow_user.py
- wait_for_bigip.py

PLAYBOOK TASK

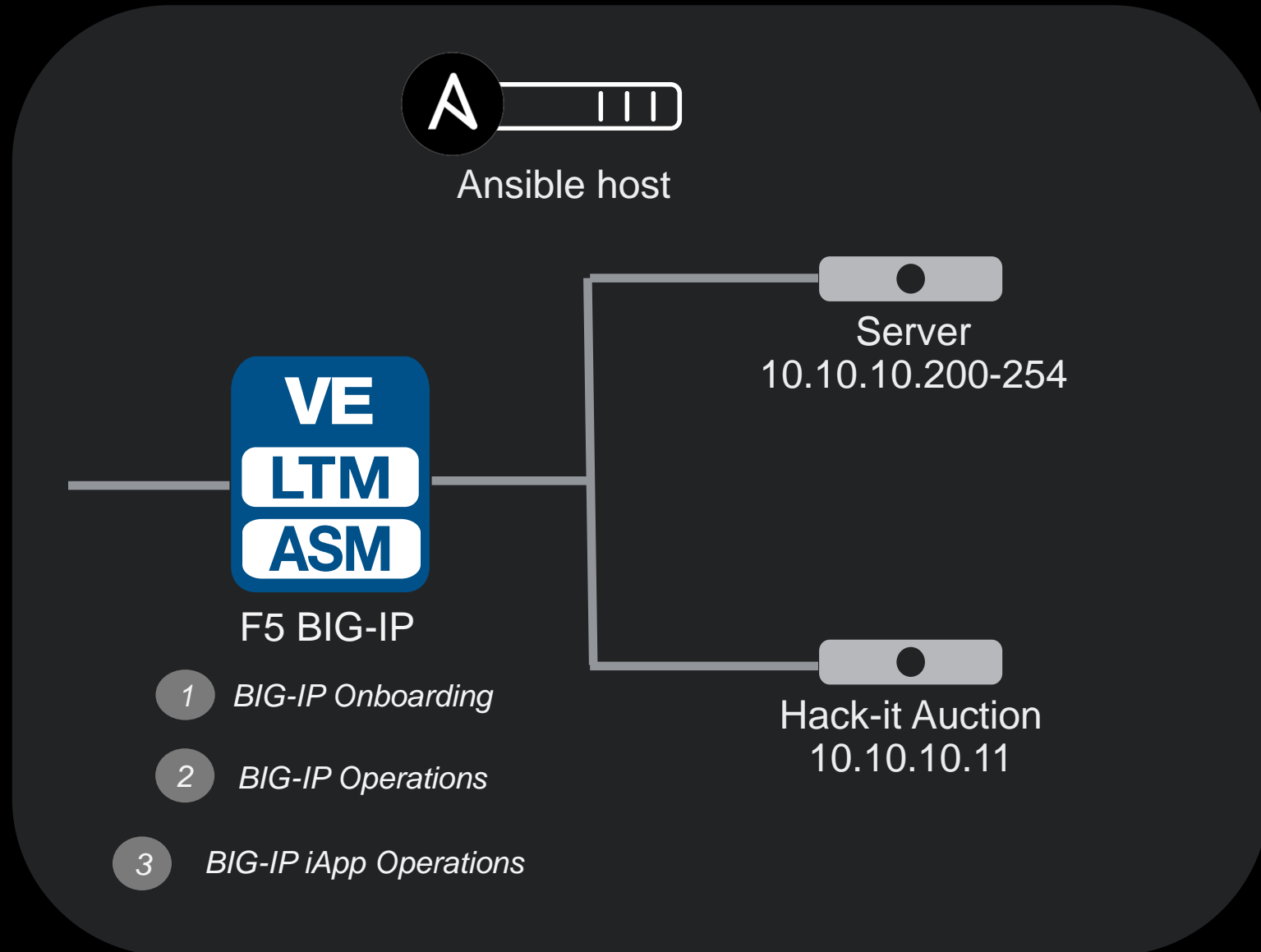
```
- name: Add virtual server
  bigip_virtual_server:
    server: lb.mydomain.net
    user: admin
    password: secret
    state: present
    partition: MyPartition
    name: myvirtualserver
    destination: "{{ myVirtualServer_IPAddress }}"
    port: 443
    pool: "{{ mypool }}"
    snat: Automap
    description: Test Virtual Server
    all_profiles:
      - http
      - clientssl
    enabled_vlans:
      - /Common/vlan2
  delegate_to: localhost
```

Name of Task

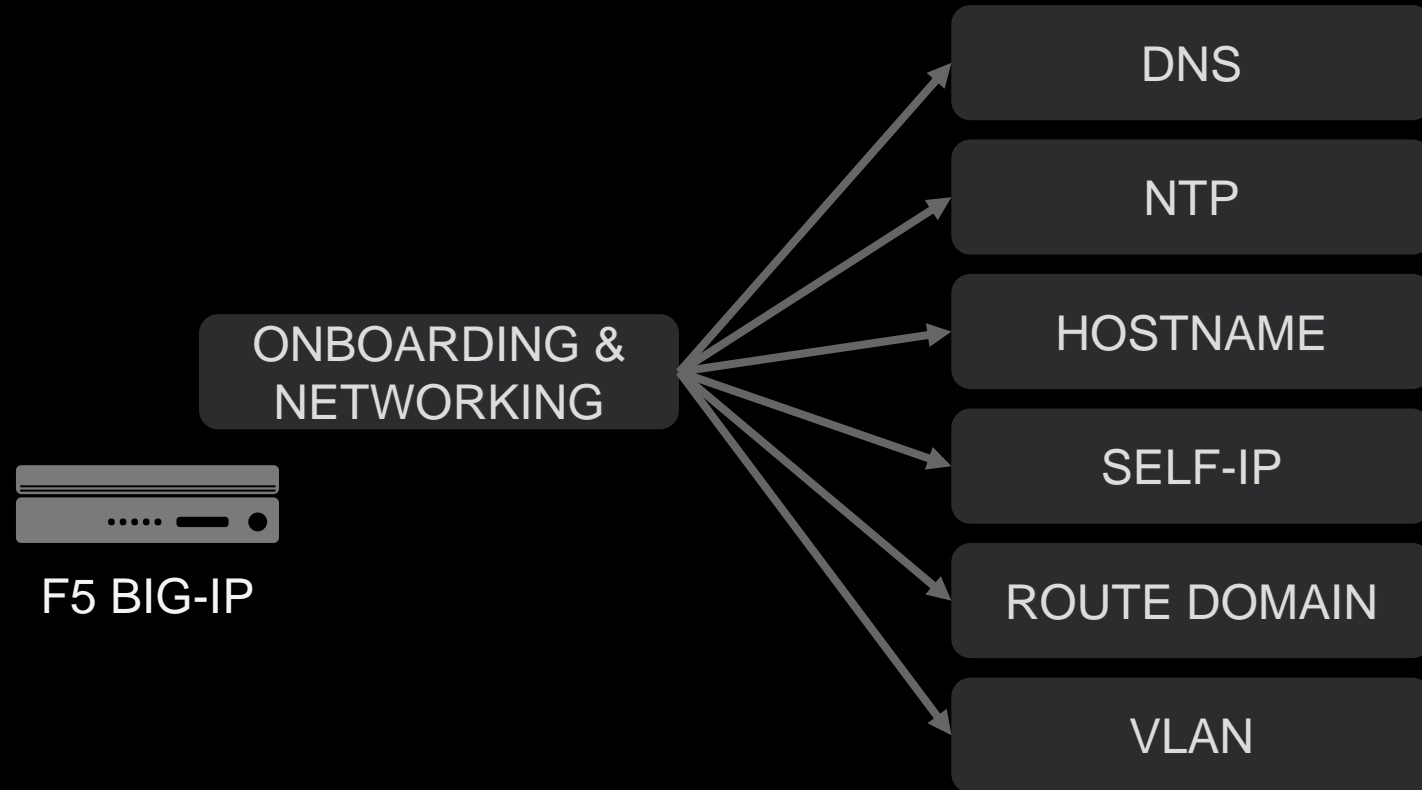
Name of Ansible module

Parameters

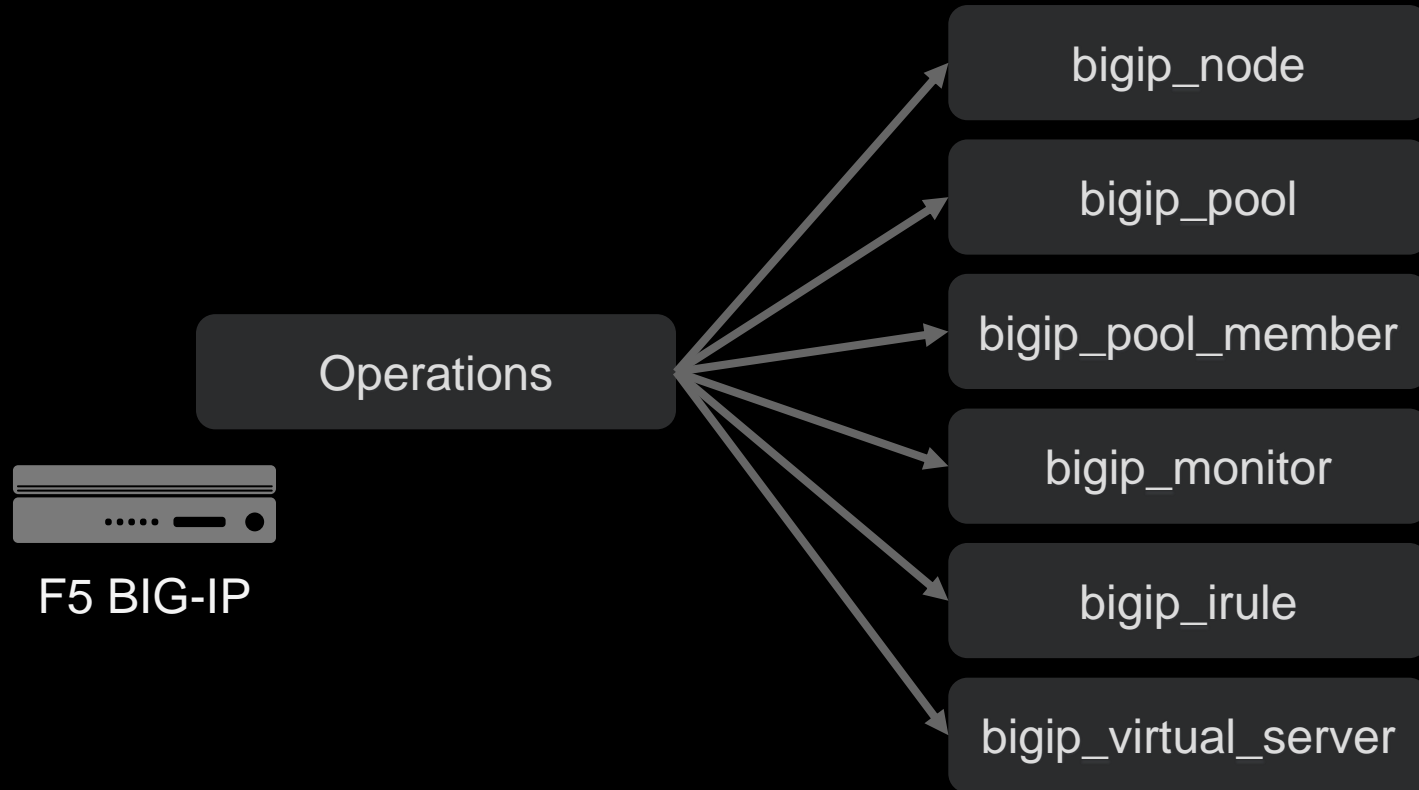
Demo Setup



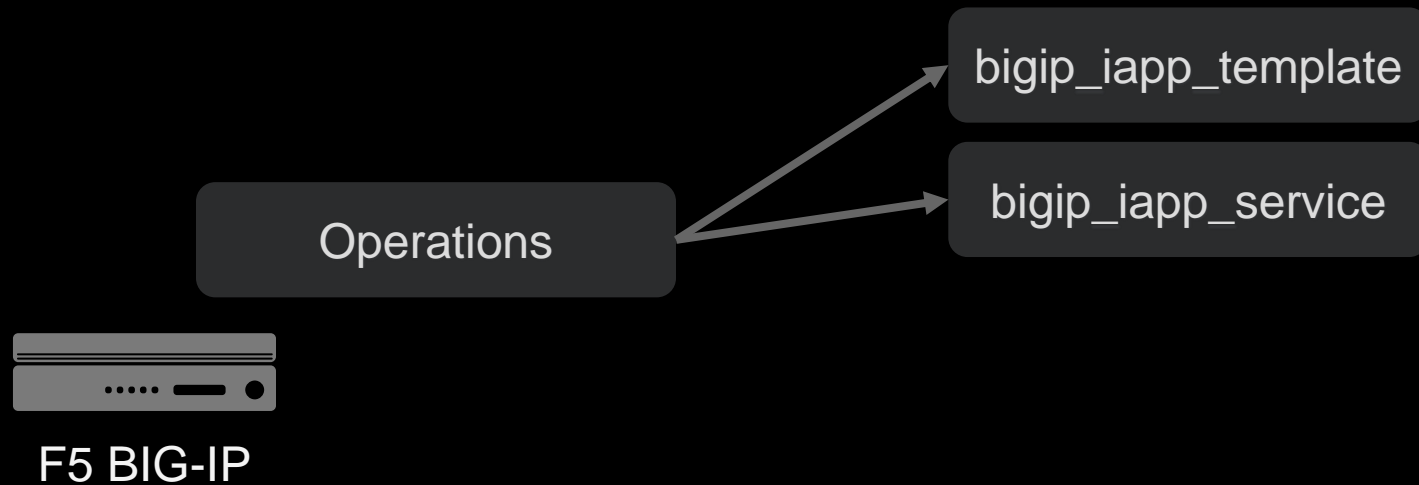
Onboarding F5 BIG-IP Use case



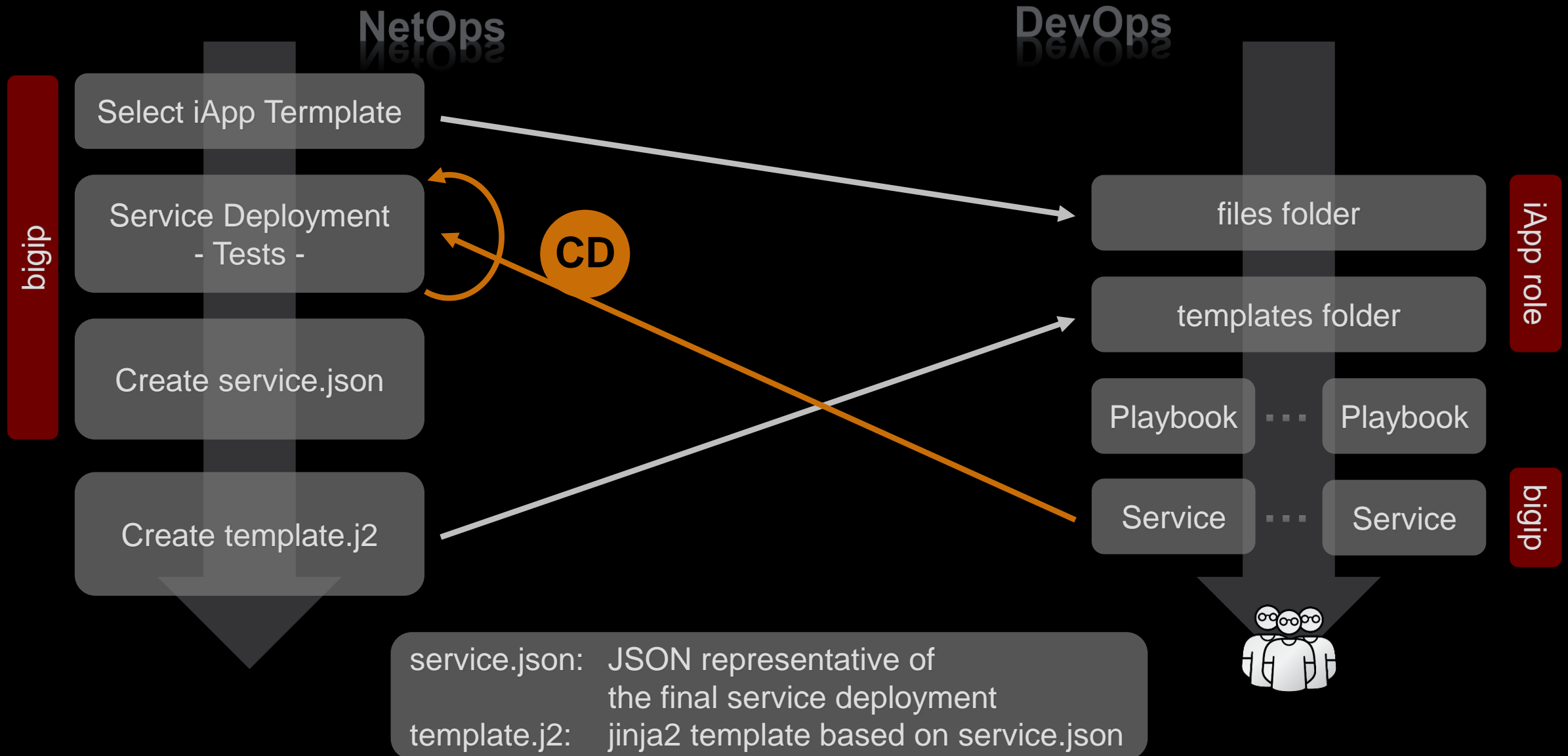
Operations F5 BIG-IP Use case



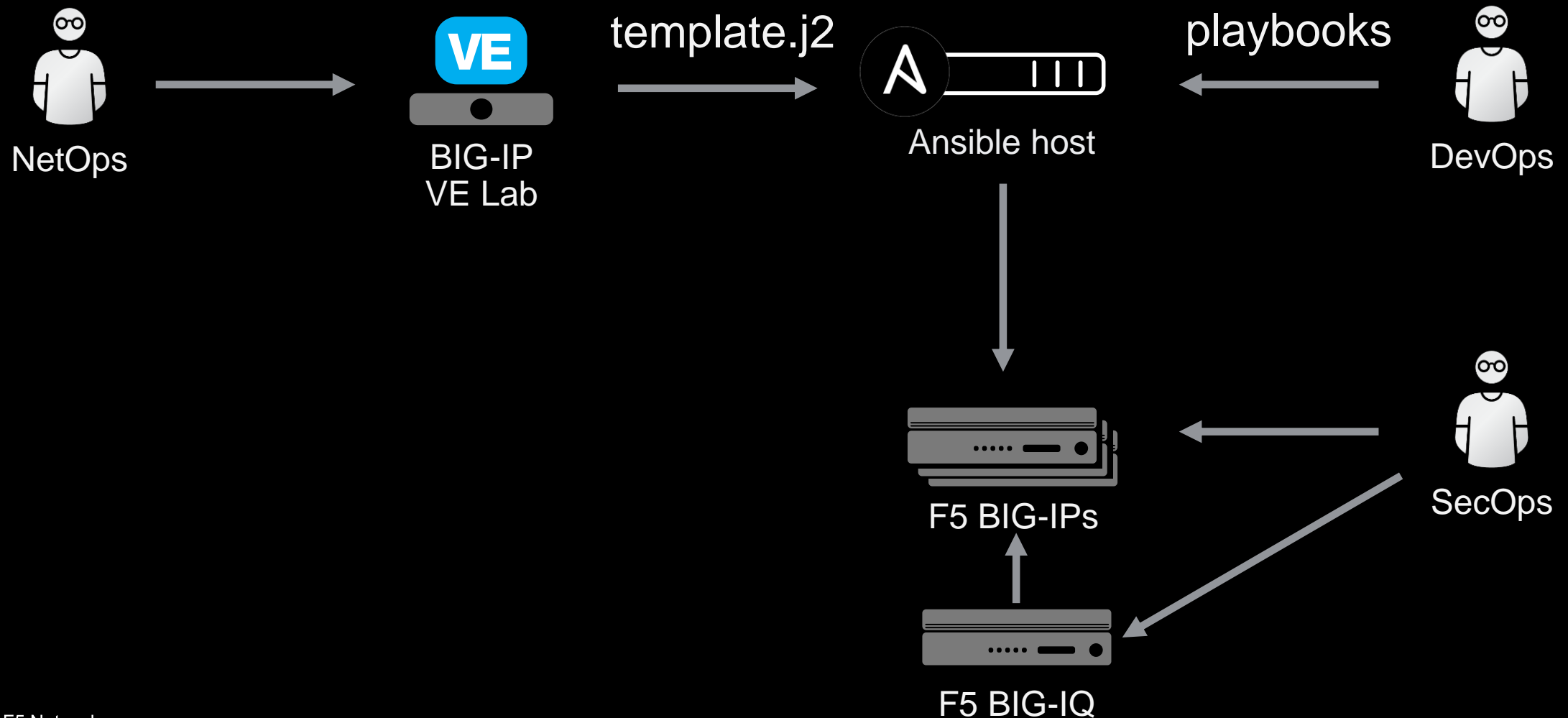
Operations F5 BIG-IP over iApps



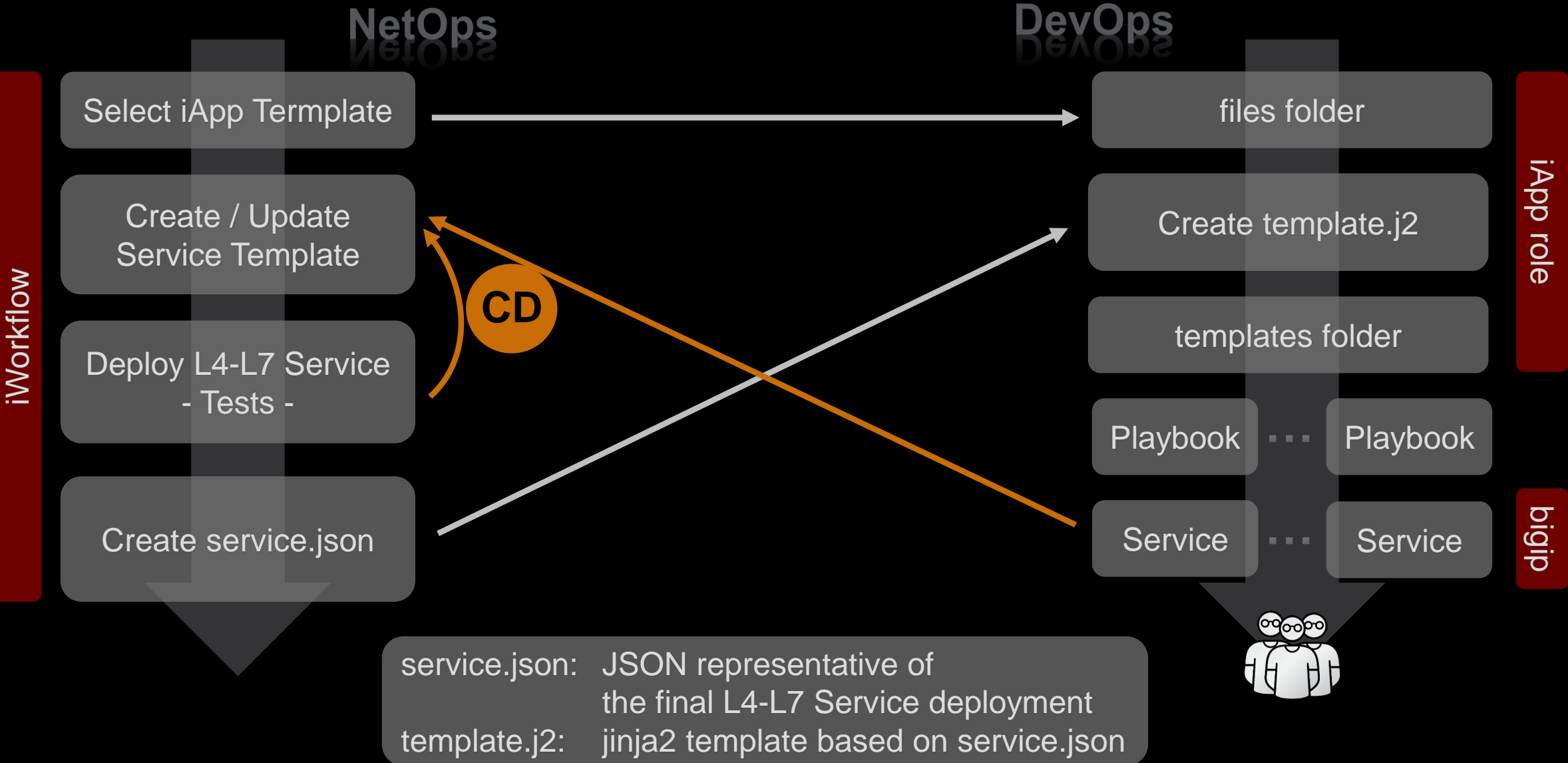
Operations F5 BIG-IP over iApps – workflow



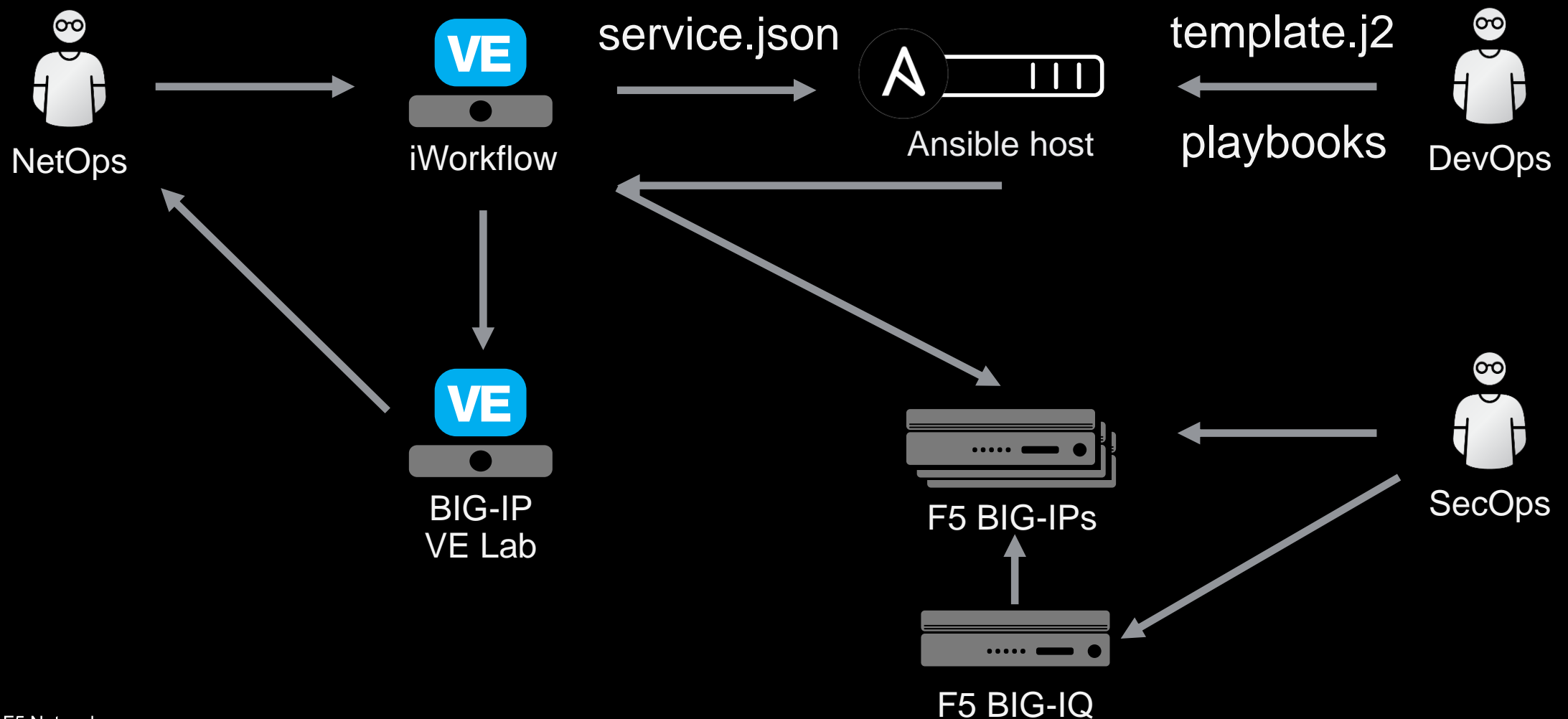
Operations F5 BIG-IP over iApps – Roles



Operations F5 BIG-IP over iWorkflow



Operations F5 BIG-IP over iWorkflow – Roles



Operations F5 BIG-IP over iWorkflow

Advantages

- **RBAC**
- **No Access to the NetOps configuration.**
- Without iWorkflow, in the template.j2 file, the DevOps can change all kinds of network settings.
- **Creation of the template.j2 file is easier.**
- **Creation of the template.j2 is the responsibility of DevOps.**
- NetOps typically not do Jinja Templates.

Resources about this demo

Resources of this demo:

- https://github.com/rabru/ansible_f5
- Branch: munich

This Presentation:

- https://raw.githubusercontent.com/rabru/ansible_f5/munich/misc/F5-AnsibleCustomerIntro.pdf

FAQ

Where can I find the new modules that are not published?

- <https://github.com/F5Networks/f5-ansible/tree/master/library>

Problem with existing F5 modules?

- <https://github.com/F5Networks/f5-ansible/issues>

Get started & other F5 questions

- <https://devcentral.f5.com/>

Where can I get f5-sdk, bigsuds from?

- <https://github.com/F5Networks> or pip install bigsuds f5-sdk

Thank You



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