Provisioning Linux SOE VM

Steps:

1. The customer has requested via a generic service request for a Linux VM to be provisioned and attached the IaaS offering Template (https://spo.bhpbilliton.com/sites/cloud/SitePages/IaaS-Guide.aspx) to the service request.
    a. First check with the customer on the above prerequisites and get them to follow up any outstanding access requests or the creation of their terraform workspace.
2. Verify that the required details of VM are available in the filled template, reach out to the customer if any mandatory details are missing.
3. Create a new sub group in azure-apps if a suitable one for this application team does not exist
4. Create a new repository in the above azure-apps sub group.
5. Clone the contents of the VM blueprint (https://gitlab.com/bhp-cloudfactory/azure-blueprints/azr-linux-soe-vm-sample)into the new repository.
6. If the application has test environments create a branch for the test environment which the application will initially be deployed to. All changes should be in that branch until the infra is promoted to production / master.
7. Determine with the customer the appropriate values for the tfvars file.
8. Create either a new tfvars file for the test environment.
9. Get the customer to upload their terraform cloud for business team token to their key vault
    a. https://app.terraform.io/app/{TFB_ORG}/settings/teams/{the customer's team}
        i. generate team token if one does not already exist
    b. upload the token using the key tfb-token
10. Upload following secrets from it-akv-001 to the customer's key vault
    a. TFC-WSPACE-TOKEN (required for seeding their workspace using our platform terraform token)
11. Update the fetch_secrets.sh file to refer to the customer's key vault name and customer's service principal credentials.
12. Update the customer's gitlab-ci.yml file with the appropriate script references, tfvars reference or sample environment shell reference, and branch reference.
13. Commit and push the changes in the test branch and verify the changes in the gitlab pipeline and terraform cloud for business.
14. The customer needs to raise the Service Request for getting access to the provisioned Azure Linux Virtual Machine. Need to follow below steps before raising the SR ticket.

a. Need to go to their Linux VM provisioned pipeline and select the Ansible passed stage and find out the Linux ansible post build script pipeline URL. They should filter it using (Right-ENT-SVR) so that they can find out the local admin group name, using this group name the customer needs to raise the SR ticket to add their ID in that local admin group.

Please refer the screen shots below

1. Finding the Linux post build script URL from Ansible pipeline stage when you open ansible pipeline stage and click the hyper link for ansible post build url (refer the below screen shot - web_url: "https://gitlab.com/bhp-cloudfcatory/azure-foundations/azr-linux-ansible-postbuild/-/pipelines/374846687"

```
36  $ source ./scripts/env.sh
37  $ source ./scripts/fetch_secrets.sh
38  $ python3 scripts/ansible_post_build.py
39  scripts/ansible_post_build.py:30: DeprecationWarning: key_file, cert_file and check_host
    name are deprecated, use a custom context instead.
40    httpsConn = http.client.HTTPSConnection("gitlab.com", 443, check_hostname=False, conte
    xt=context)
41  {"id":374846687,"project_id":29237043,"sha":"8fb115b86cd6102f8c8067b8ccf1e50ffa2d76f
    3","ref":"master","status":"created","source":"trigger","created_at":"2021-09-22T00:56:5
    0.477Z","updated_at":"2021-09-22T00:56:50.477Z","web_url":"https://gitlab.com/bhp-cloudfa
    ctory/azure-foundations/azr-linux-ansible-postbuild/-/pipelines/374846687","before_sh
    a":"0000000000000000000000000000000000000000","tag":false,"yaml_errors":null,"user":{"i
    d":9051720,"name":"Ng, Martin","username":"ngmartin1","state":"active","avatar_url":"http
    s://secure.gravatar.com/avatar/f42b9f3255e576ef8d060afbaae801f8?s=80\u0026d=identicon","w
    eb_url":"https://gitlab.com/ngmartin1"},"started_at":null,"finished_at":null,"committed_a
    t":null,"duration":null,"queued_duration":null,"coverage":null,"detailed_status":{"ico
    n":"status_created","text":"created","label":"created","group":"created","tooltip":"creat
    ed","has_details":false,"details_path":"/bhp-cloudfactory/azure-foundations/azr-linux-ans
    ible-postbuild/-/pipelines/374846687","illustration":null,"favicon":"/assets/ci_favicons/
    favicon_status_created-4b975aa976d24e5a3ea7cd9a5713e6ce2cd9afd08b910415e96675de35f64955.p
    ng"}}
```

2. Finding out Local Admin group in the post build script pipeline. Select succeeded pipeline job ID and find out key word (Right-ENT-SVR). They will get the group name. Please refer the screen shot below.

https://gitlab.com/bhp-cloudfactory/azure-foundations/azr-linux-ansible-postbuild/-/pipelines/

```
269  changed: [maue10ephub003] => (item={'Name': 'Right-ENT-SVR-MAUE10EPHUB003.Local.Admin',
    'Description': 'Grants root privilege to MAUE10EPHUB003'})
270  changed: [maue10ephub003] => (item={'Name': 'Right-ENT-SVR-MAUE10EPHUB003.Custom.Acces
    s', 'Description': 'Grants custom sudoers privilege to MAUE10EPHUB003'})
```

b. Raise the SR ticket to add their id in the Local Admin group