

Multitenant Guest Application Deployment

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1.Introduction

This page talks about the workflow to deploy a multi-tenant Guest application deployment on Azure.

There are 2 guest application deployment types that can be onboarded: Multi-Tenant (MT) and Single-Tenant (ST).

A Multi-Tenant (MT) guest application installs 1 application per environment. This means *all* customers interface the same application.

Multi-Tenant guest applications are treated differently, as they have distinct deployments and expectations. For each MT guest application, the EC DevOps team will create a single Build pipeline, along with one Deployment pipeline setup per environment. The AZDO will be configured to automatically deploy every commit from the DEV branch to the DEV Kubernetes environment. AZDO will also commit RELEASE* branches to the stage environment. From that location they can be promoted along the DEV or RELEASE track.

Examples –

- Novum Remote Service Agent Applications (References in Azure Group naming convention -> Product Family –RSP and Product - RSA)
- All BDHP services installed in AKS Cluster

2.Deployment Workflow

The below workflow has the steps to be followed to deploy a Guest application into AKS from the terraform codebase.

Please ensure the pre-requisite in form of questionnaire from Guest app is received well prior to executing the below steps. Please get the below information as well for naming to be added in Guest app deployment file

- product family reference in Azure Group naming convention and
- product reference in Azure Group naming convention

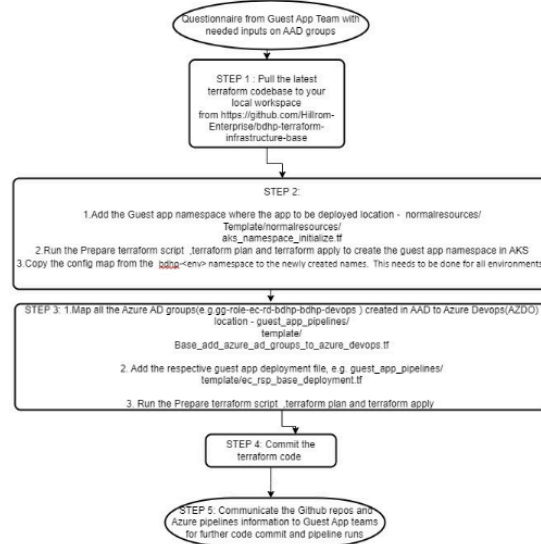
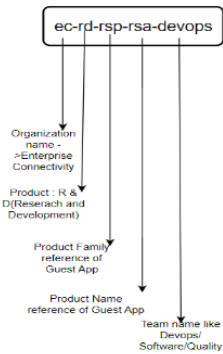
E.g. [bdhp-terraform-infrastructure-base/guest_app_pipelines/template/ec_rsp_base_deployment.tf](https://github.com/bdhp-terraform-infrastructure-base/guest_app_pipelines/template/ec_rsp_base_deployment.tf) at dev · Hillrom-Enterprise/bdhp-terraform-infrastructure-base (github.com).

```

module "team_management_ec_rsp" {
  #Project Name    IAC - BDHP GA - (appname)
  #Variables
  source          =
  "/template/team_management"
  guest_application_team = "EC-RSP"
  .....
  .....

  guest_application_team_devops_group_name = azuredevops_group.gg-role-ec-
  rd-rsp-rsa-devops.display_name

```



Please note in step2 -> the step of copying the config map to the newly created namespace will be automated in future by sharing the config map between all namespaces so that guest apps have access to BDHP services.

3.Multi-tenant Deployment Terraform Visual workflow

This section does a deep- dive what the terraform codebase does under the cover to deploy a multitenant application starting from receiving inputs from guest app team in form questionnaire to creating github repos,AAD groups,namespaces, CI/CD pipelines,etc.

Terraform Codebase: [Hillrom-Enterprise/bdhp-terraform-infrastructure-base \(github.com\)](https://github.com/Hillrom-Enterprise/bdhp-terraform-infrastructure-base).

TO refer to CI/CD stages details, please refer to [Types of SaaS Pipelines - Baxter Digital Health Platform - Confluence \(atlassian.net\)](#).

