

# azure-2024Xiac-terraformXazure-aksXpipelines

## CI Pipelines deployment Azure AKS

### Overview of the CI Pipelines

The screenshot displays the GitLab CI Pipelines interface for the project `azure-2024/iac-terraform/azure-aks`. The left sidebar shows the project structure with `Pipelines` selected. The main content area shows a list of pipelines, all with a `Passed` status.

Status	Pipeline	Created by	Stages
✓ Passed 00:01:25 1 month ago	Merge branch '201-aks-acr-identity' into 'main' #1266523424 201-aks-acr-identity b07aa611 latest		✓ ✓
✓ Passed 00:11:20 1 month ago	Merge branch '201-aks-acr-identity' into 'main' #1266514285 main b07aa611		✓ ✓ ✓ ✓
✓ Passed 00:01:30 1 month ago	Merge branch '201-k8s-cluster-with-tf-and-ak...' #1266296024 201-k8s-cluster-with-tf-and-aks b2bd6863 latest		✓ ✓

Merge the branch into main branch triggers the deployment to Azure

gitlab.com/azure-2024/iac-terraform/azure-aks/-/pipelines/1266514285

azure-2024 / IaC-Terraform / azure-aks / Pipelines / #1266514285

## Merge branch '201-aks-acr-identity' into 'main'

✓ Passed devops100net created pipeline for commit b07aa611 1 month ago, finished 1 month ago

For main

latest 4 jobs 11.33 11 minutes 20 seconds, queued for 0 seconds

Pipeline Needs Jobs 4 Tests 0

```
graph LR
    validate[validate terraform_validate] --> plan[plan terraform_plan]
    plan --> apply[apply terraform_apply]
    apply --> destroy[destroy terraform_destroy]
```

## Details of the 'terraform apply' Job (part 1)

gitlab.com/azure-2024/iac-terraform/azure-aks/-/jobs/6708835082

azure-2024 / IaC-Terraform / azure-aks / Jobs / #6708835082

Search job log

```
26 $ terraform init
27 Initializing the backend...
28 Initializing provider plugins...
29 - Finding hashicorp/azurerm versions matching "~> 3.0"...
30 - Finding latest version of hashicorp/random...
31 - Installing hashicorp/azurerm v3.100.0...
32 - Installed hashicorp/azurerm v3.100.0 (signed by HashiCorp)
33 - Installing hashicorp/random v3.6.1...
34 - Installed hashicorp/random v3.6.1 (signed by HashiCorp)
35 Terraform has created a lock file .terraform.lock.hcl to record the provider
36 selections it made above. Include this file in your version control repository
37 so that Terraform can guarantee to make the same selections by default when
38 you run "terraform init" in the future.
39 Terraform has been successfully initialized!
40 You may now begin working with Terraform. Try running "terraform plan" to see
41 any changes that are required for your infrastructure. All Terraform commands
42 should now work.
43 If you ever set or change modules or backend configuration for Terraform,
44 rerun this command to reinitialize your working directory. If you forget, other
45 commands will detect it and remind you to do so if necessary.
46 $ terraform -v
47 Terraform v1.8.2
48 on linux_amd64
49 + provider registry.terraform.io/hashicorp/azurerm v3.100.0
50 + provider registry.terraform.io/hashicorp/random v3.6.1
51 $ terraform apply --auto-approve plan
52 Acquiring state lock. This may take a few moments...
53 random_pet.rg: Creating...
54 random_pet.rg: Creation complete after 0s [id=demo-tfquickstart-pup]
55 azurerm_resource_group.default: Creating...
56 azurerm_resource_group.default: Creation complete after 1s [id=/subscriptions/
57 3/resourceGroups/demo-tfquickstart-pup-dev-rg]
58 azurerm_user_assigned_identity.aks: Creating...
59 azurerm_container_registry.default: Creating...
60 azurerm_user_assigned_identity.aks: Creation complete after 3s [id=/subscriptions,
```

Duration: 5 minutes 9 seconds  
Finished: 1 month ago  
Queued: 0 seconds  
Timeout: 1h (from project)  
Runner: #12270807 (j1aLdQxSn) 1-blue.saas-linux-small-amd64.runners-manager.gitlab.com/default  
Tags: linux  
Commit b07aa611  
Merge branch '201-aks-acr-identity' into 'main'  
Pipeline #1266514285 ✓ Passed for main  
apply  
Related jobs  
→ terraform\_apply

## Details of the 'terraform apply' Job (part 2)

gitlab.com/azure-2024/iac-terraform/azure-aks/-/jobs/6708835082

azure-2024 / iac-Terraform / azure-aks / Jobs / #6708835082

Search job log

Project: azure-aks

Jobs

```
71 tpupacr/providers/Microsoft.Authorization/roleAssignments [redacted]
72 azurenm_kubernetes_cluster.default: Creating...
73 azurenm_kubernetes_cluster.default: Still creating... [10s elapsed]
74 azurenm_kubernetes_cluster.default: Still creating... [20s elapsed]
75 azurenm_kubernetes_cluster.default: Still creating... [30s elapsed]
76 azurenm_kubernetes_cluster.default: Still creating... [40s elapsed]
77 azurenm_kubernetes_cluster.default: Still creating... [50s elapsed]
78 azurenm_kubernetes_cluster.default: Still creating... [1m0s elapsed]
79 azurenm_kubernetes_cluster.default: Still creating... [1m10s elapsed]
80 azurenm_kubernetes_cluster.default: Still creating... [1m20s elapsed]
81 azurenm_kubernetes_cluster.default: Still creating... [1m30s elapsed]
82 azurenm_kubernetes_cluster.default: Still creating... [1m40s elapsed]
83 azurenm_kubernetes_cluster.default: Still creating... [1m50s elapsed]
84 azurenm_kubernetes_cluster.default: Still creating... [2m0s elapsed]
85 azurenm_kubernetes_cluster.default: Still creating... [2m10s elapsed]
86 azurenm_kubernetes_cluster.default: Still creating... [2m20s elapsed]
87 azurenm_kubernetes_cluster.default: Still creating... [2m30s elapsed]
88 azurenm_kubernetes_cluster.default: Still creating... [2m40s elapsed]
89 azurenm_kubernetes_cluster.default: Still creating... [2m50s elapsed]
90 azurenm_kubernetes_cluster.default: Still creating... [3m0s elapsed]
91 azurenm_kubernetes_cluster.default: Still creating... [3m10s elapsed]
92 azurenm_kubernetes_cluster.default: Still creating... [3m20s elapsed]
93 azurenm_kubernetes_cluster.default: Still creating... [3m30s elapsed]
94 azurenm_kubernetes_cluster.default: Creation complete after 3m36s [id=/subscriptions/99dc5e3/resourceGroups/demo-tfquickstart-pup-dev-rg/providers/Microsoft.ContainerService/managedClusters/demo-tfquickstart-aks]
95 Releasing state lock. This may take a few moments...
96 Apply complete! Resources: 7 added, 0 changed, 0 destroyed.
97 Saving cache for successful job
98 Creating cache terraform-protected...
99 .terraform: found 22 matching artifact files and directories
100 Uploading cache.zip to https://storage.googleapis.com/gitlab-com-runners-cache/project/[redacted]terraform-protected
101 Created cache
102 Cleaning up project directory and file based variables
103 Job succeeded
```

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