

# KubeTally Quick Start Guide

## Table of Contents

|  |          |
|--|----------|
| <b>Install KubeTally</b>                     | <b>2</b> |
| KubeTally Registration                       | 2        |
| Cluster Authentication                       | 2        |
| Configure the Helm Repository                | 3        |
| KubeTally Installation through kubeslice-cli | 3        |
| Sample Topology Configuration File           | 4        |
| Apply the Topology Configuration YAML        | 8        |
| Retrieve the KubeTally Endpoint              | 8        |
| KubeTally UI Login                           | 9        |
| Access KubeTally using the Token             | 10       |

# Install KubeTally

This topic serves as a quick-start guide that assists you in installing KubeTally with the bare minimum configuration required to start using KubeTally.

## KubeTally Registration

Go to <https://avesha.io/kubeslice-registration/>. You receive an email with login credentials to be used in the `topology.yaml` file for installation.

## Cluster Authentication

To register your worker clusters with the KubeSlice Controller, it is necessary to authenticate with each cloud provider used in the installation.

### Microsoft AKS

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```
az aks get-credentials --resource-group <resource group name> --name <cluster name>
```

### Amazon EKS

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```
aws eks update-kubeconfig --name <cluster-name> --region <cluster-region>
```

### Google GKE

Unset

```
gcloud container clusters get-credentials <cluster name>
--region <region> --project <project id>
```

## Configure the Helm Repository

Add the helm repo using the following command:

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```
helm repo add kubetally
https://kubeslice.aveshalabs.io/repository/kubetally-helm-en
t-prod/
```

Update the repo using the following command:

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```
helm repo update
```

Verify the repo using the following command:

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```
helm search repo kubeslice
```

## KubeTally Installation through kubeslice-cli

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Create the topology configuration file using the following template to install KubeTally on clusters.

## Sample Topology Configuration File

The following is a minimal configuration file to install KubeTally on cloud clusters:

Create the topology configuration file using the following template:

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```
configuration:
  cluster_configuration:
    profile: #{the KubeSlice Profile for the demo. Possible
values [full-demo, minimal-demo]}
    kube_config_path: #{specify the kube config file to use
for topology setup; for topology only}
    cluster_type: #{optional: specify the type of cluster.
Valid values are kind, cloud, data-center}
    controller:
      name: #{the user defined name of the controller
cluster}
      context_name: #{the name of the context to use from
kubeconfig file; for topology only}
      kube_config_path:#{the path to kube config file to
use for controller installation; for topology only.}
      #{This takes precedence over
configuration.cluster_configuration.kube_config_path}
      control_plane_address:#{the address of the control
plane kube-apiserver. kubeslice-cli determines the address
from kubeconfig}
      #{Override this flag if the address in kubeconfig
is not reachable by other clusters in topology}
```

```
node_ip:#{the IP address of one of the node in this
cluster. kubeslice-cli determines this address from kubectl
get nodes}
    #{Override this flag to an address which is
discoverable by other clusters in the topology}
workers: #{specify the list of worker clusters}
    - name: #{the user defined name of the worker
cluster}
        context_name: #{the name of the context to use from
the kubeconfig file; for topology only}
        kube_config_path:#{the path to kube config file to
use for worker installation; for topology only.}
            #{This takes precedence over
configuration.cluster_configuration.kube_config_path}
        control_plane_address:#{the address of the control
plane kube-apiserver. kubeslice-cli determines the address
from kubeconfig}
            #{Override this flag if the address in kubeconfig
is not reachable by other clusters in topology}
        node_ip:#{the IP address of one of the node in this
cluster. kubeslice-cli determines this address from kubectl
get nodes}
            #{Override this flag to an address which is
discoverable by other clusters in the topology}
            - name: #{the user defined name of the worker
cluster}
                context_name: #{the name of the context to use from
the kubeconfig file; for topology only}
                kube_config_path:#{the path to kube config file to
use for worker installation; for topology only.}
```

```
    #{This takes precedence over
configuration.cluster_configuration.kube_config_path}
    control_plane_address:#{the address of the control
plane kube-apiserver. kubeslice-cli determines the address
from kubeconfig}
    #{Override this flag if the address in kubeconfig
is not reachable by other clusters in topology}
    node_ip:#{the IP address of one of the node in this
cluster. kubeslice-cli determines this address from kubectl
get nodes}
    #{Override this flag to an address which is
discoverable by other clusters in the topology}
    kubeslice_configuration:
      project_name: #{the name of the KubeSlice Project}
      project_users: #{optional: specify KubeSlice Project
users with Readw-Write access. Default is admin}
      helm_chart_configuration:
        repo_alias: <file_path_to_helm_charts>
        #{The file path location of KubeSlice Charts}
      use_local: true
      cert_manager_chart:
        chart_name: #{The name of the Cert Manager Chart}
        version: #{The version of the chart to use. Leave
blank for latest version}
      controller_chart:
        chart_name: #{The name of the Controller Chart}
        version: #{The version of the chart to use. Leave
blank for latest version}
        values: #{(Values to be passed as --set arguments to
helm install)}
      worker_chart:
```

```
    chart_name: #{The name of the Worker Chart}
    version: #{The version of the chart to use. Leave
blank for latest version}
    values: #{Values to be passed as --set arguments to
helm install)
  ui_chart:
    chart_name: #{The name of the UI/Enterprise Chart}
    version: #{The version of the chart to use. Leave
blank for latest version}
    values: #{Values to be passed as --set arguments to
helm install)
  prometheus_chart:
    chart_name: #{The name of the Prometheus Chart}
    version: #{The version of the chart to use. Leave
blank for latest version}
    values: #{Values to be passed as --set arguments to
helm install)
  helm_username: #{Helm Username if the repo is private}
  helm_password: #{Helm Password if the repo is private}
  image_pull_secret: #{The image pull secrets. Optional
for OpenSource, required for enterprise}
  registry: #{The endpoint of the OCI registry to use.
Default is `https://index.docker.io/v1/`}
  username: #{The username to authenticate against the
OCI registry}
  password: #{The password to authenticate against the
OCI registry}
  email: #{The email to authenticate against the OCI
registry}
```

## Apply the Topology Configuration YAML

To install KubeSlice using the topology YAML file, use the following command:

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```
kubeslice-cli --config <path-to-the-topology.yaml> install
```

## Retrieve the KubeTally Endpoint

Use the following command to retrieve the KubeTally endpoint:

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```
kubeslice-cli get ui-endpoint -c  
<path-to-custom-topology-file>
```

Output format:

Unset

```
https://<Node-IP>:<Node-Port>
```

When LoadBalancer is used:

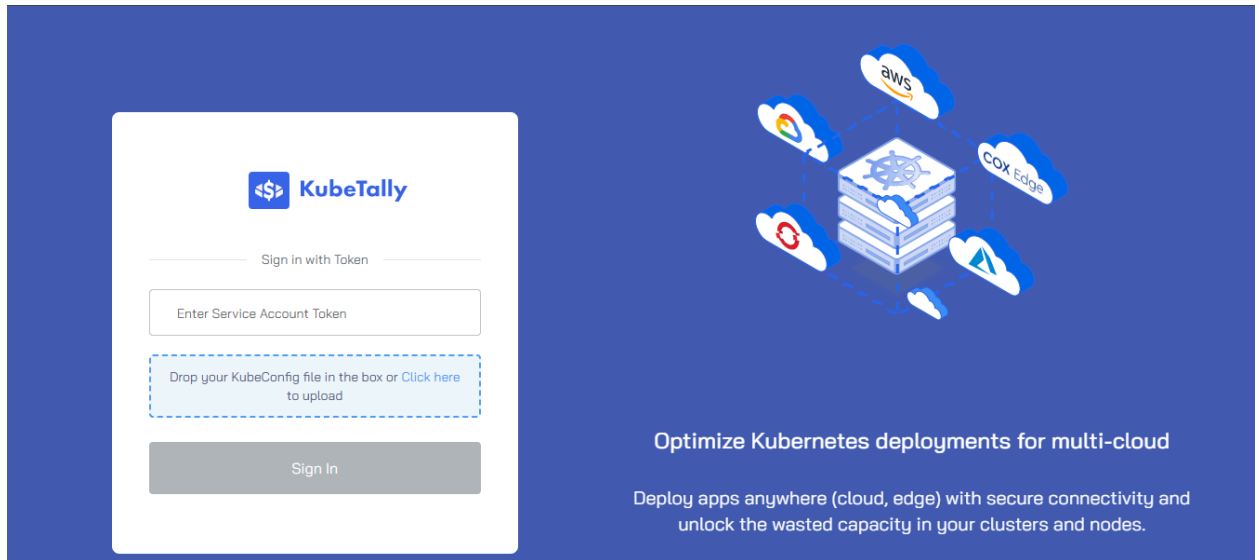
```
https://<LoadBalancer-IP>
```

Copy the endpoint/URL from the output to use it to log in to KubeTally.



## KubeTally UI Login

Use the endpoint/URL that you copied from the command output earlier into your browser window to access the KubeTally.



You must create a service-account token to log in to KubeTally. Create a service-account token using the following command:

Unset

```
kubectl get secret kubelice-rbac-rw-admin -o  
jsonpath="{.data.token}" -n kubelice-<project> | base64  
--decode
```

## Access KubeTally using the Token

 **Note:** We recommend using a managed Postgres instance for better management of data.

Go to the URL that you have retrieved using the command in the [KubeTally UI Login](#).

On the login page, for **Enter Service Account Token**, copy the token from the command output above and paste it in the text box.

Click **Sign in**. After a successful authentication, you see the dashboard of the KubeTally as the landing page.

