

The background is a dark blue gradient with a subtle pattern of white dots. Overlaid on the left side are several concentric circles and a large circular scale with degree markings from 140 to 260. Some circles have arrows indicating a clockwise direction.

GKE Setup Instructions

By K.C.Ashish Kumar

Install via Jenkins Job

- <http://authub-jenkins-srv.lvn.broadcom.net:8080/>
- IAM-PUBLIC >> deploy-ngnx-enclave-ssp-on-gke-bm-cluster-kickoff-harness
- Build with Parameters (Refer Screenshot)
- The build normally takes 20 Minutes

Parameters	
release_stage	<input type="text" value="develop"/> <small>If you wish to validate your feature branch build , select your branch name on AuthHub Repository and make sure Image repository and Image Tags names must be properly updated on your feature branch. "develop" is for nightly develop build , deployment process will pick artifacts from develop internal and external locations. "master" is for sprint release master build, deployment process will pick artifacts from master internal and external locations.</small>
select_platform	<input type="text" value="gke"/>
cluster_name	<input type="text" value="ssp-cluster-ashish"/> <small>This is Mnadatory Field: ##### If you are deploying on GKE enter your GKE Cluster Name. ##### If you are deploying on BM enter your Master node FQDN Name. #####</small>
bm_cluster_user	<input type="text" value="root"/> <small>This field is applicable only for Baremetal cluster, Please provide Cluster user name. Default cluster user is "root" for the BM clusters provisioned from ITC BU lab. If your BM cluster deployed on different Lab, please provide your cluster user name.</small>
bm_cluster_pwd	<div><input type="password" value="Concealed"/> Change Password</div> <small>This field is applicable only for Baremetal cluster, Please provide Cluster user password.Default cluster user "root" password updated for the cluster's provisioned from ITC BU Lab.If your BM cluster deployed on different Lab, please provide your cluster user password.</small>
regionRzone_name	<input type="text" value="us-central1"/>
gcp_proj_name	<input type="text" value="saasdev-sed-ssp-hp"/>
ingress_ip_is_internal	<input type="text" value="false"/> <small>On GKE cluster, If ingress LB set for Internal-IP then select option "true".</small>
	<div><input checked="" type="checkbox"/> setup_ingress</div> <div><input checked="" type="checkbox"/> deploy_enclave</div> <div><input checked="" type="checkbox"/> deploy_ssp</div> <div><input checked="" type="checkbox"/> deploy_sampleapp</div>
relname	<input type="text" value="ssp-1561"/> <small>Please fill the release name of your deployment. If you are not deploying SSP and want to kickoff harness against already installed release, please enter the appropriate release name that you want to test.</small>
clusternamespace	<input type="text" value="ssp1"/> <small>Enter Cluster Namespace for your deployment. If you are not deploying SSP and want to kickoff harness against already installed release, please enter the appropriate cluster namespace where you installed SSP release.</small>
release_id	<input type="text" value="1.0.1561"/> <small>Enter release id you want to deploy, check the available releases from the appropriate helm repositories based on the development phase and platform you have choosen for deployment. If you are not deploying SSP and want to kickoff harness against already installed release, please enter the appropriate release id from your old deployment you wanted to test.</small>
domain_name	<input type="text" value="sspdev.dev.broadcom.com"/> <small>Below Listed Domains are registered public domains can be used to deploy on GKE to expose services on public: 1) Registered public domain "sspdev.dev.broadcom.com" associated with GCP project "saasdev-sed-ssp-hp". 2) Registered public domain "sspstage.dev.broadcom.com" associated with GCP project "saasdev-sed-ssp-hp". 3) Registered public domain "layer7.broadcom.com" associated with GCP project "demos-esd-security-masingale". Below Listed Domains can be used for internal pupose, including above listed public domain without updating cloud DNS records in GCP project. 1) broadcom.net 2) dev.broadcom.com All the above domains can be used on GKE / BM platforms with internal access. Automation is enabled to pick the appropriate wildcard certificates based on the selection of domain.</small>
harness_module	healthservice
harness_branch	<input type="text" value="develop"/>
send_email	<input type="text"/>

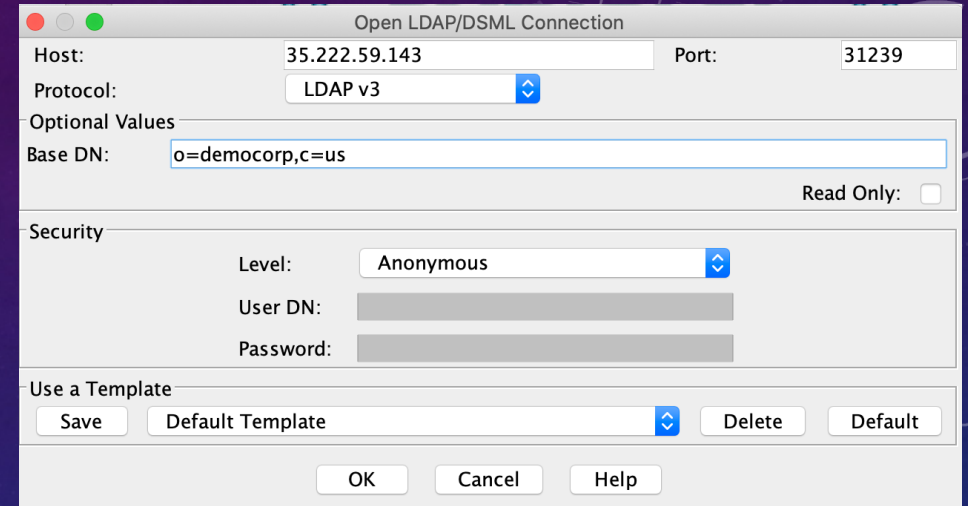
gcloud SDK

- Install gcloud SDK - <https://cloud.google.com/sdk/docs/>
- Also install the “kubectl” component
- `gcloud container clusters get-credentials <clusterName> --region us-central1 --project saasdev-sed-ssp-hp`
command for connecting to the cluster
- `kubectl get nodes -o wide`
command for getting the information about internal/external IP
- `kubectl get pods,svc -n idstore`
command for getting information about ports for LDAP (here the namespace is “idstore”)
- `kubectl get pods -n <namespace>`
command for getting all the pods in a specific namespace (Also can use pod argument instead of pods)
- `kubectl describe pods -n ssp1`
command to get detailed information for pods in a specific namespace (Also can use pod argument instead of pods)
- `kubectl describe pods <podName> -n <namespace>`
command to describe a specific pod within a specific namespace (Also can use pod argument instead of pods)
- `kubectl --help`
General help
- `kubectl get --help`
Help for the get argument

Configure LDAP & Users

- Install Java & JXplorer, Run JXplorer
- Use the external IP & the port obtained from the kubectl command
- Refer the 1st screenshot for Base DN
- Save the settings as a template e.g. Default Template
- Connect (Press OK) (Refer 2nd screenshot for screen after successful connection)

Contd . . .



Open LDAP/DSML Connection

Host: 35.222.59.143 Port: 31239

Protocol: LDAP v3

Optional Values

Base DN: o=democorp,c=us

Read Only: ☐

Security

Level: Anonymous

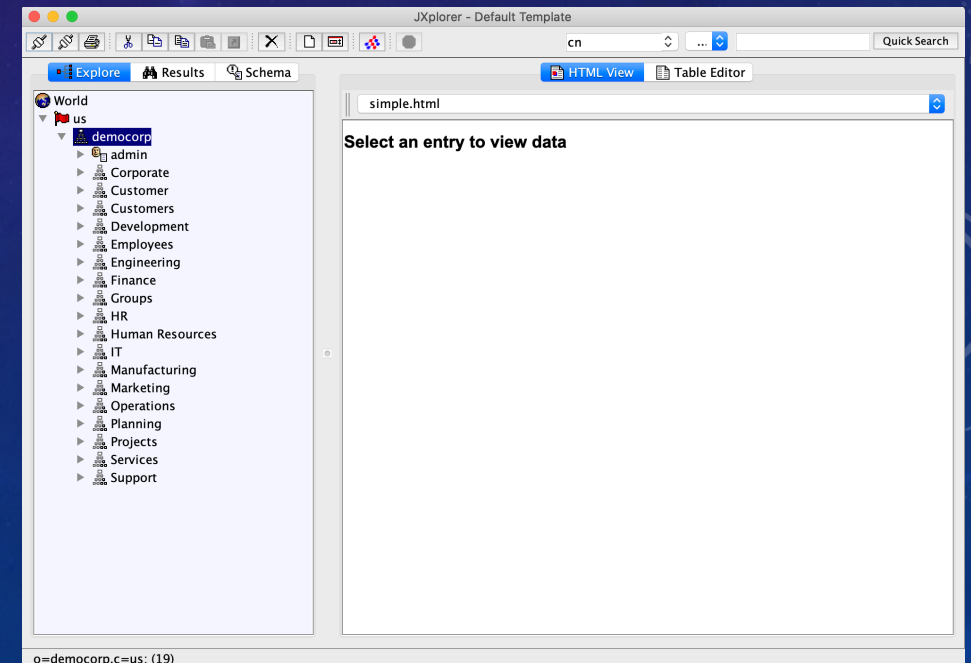
User DN:

Password:

Use a Template

Save Default Template Delete Default

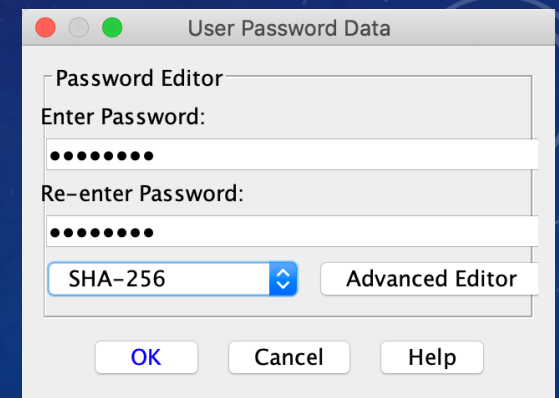
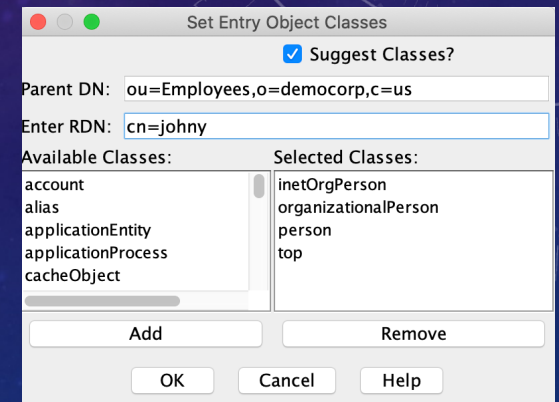
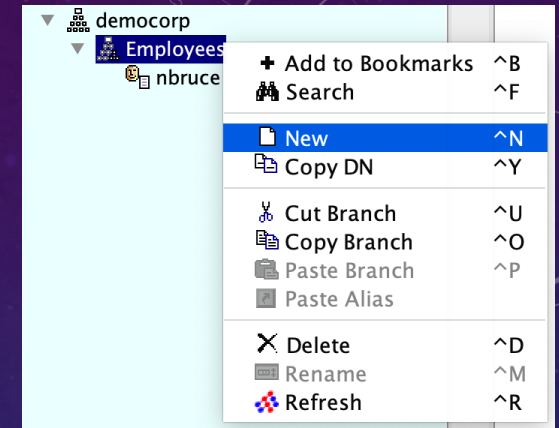
OK Cancel Help



Configure LDAP & Users

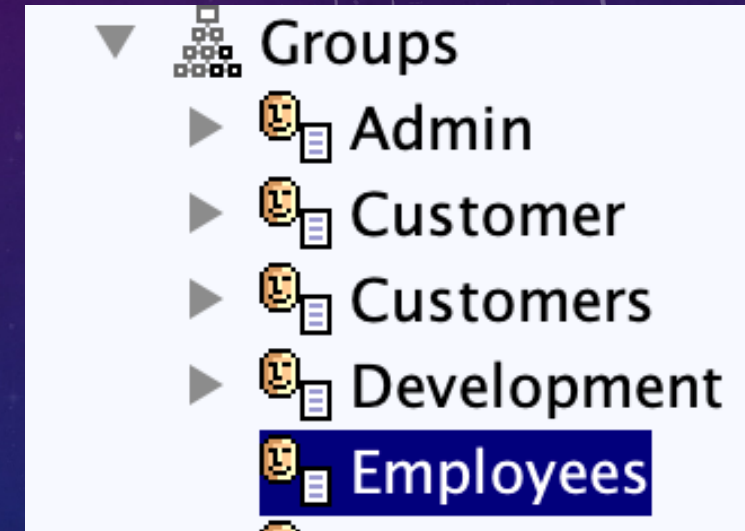
- In the search bar, search for an existing user e.g. nbruce
- In the results, right-click on Employees & select 'New'
- Refer the 2nd screenshot for values, replace 'johny' with the desired username. Click OK
- In the next screen, fill out the mandatory values like 'sn' (Surname), userPassword.
- For userPassword, select type as SHA-256
- Click "Submit"
- Go to HTML View and fill out other fields if needed like phone, email & click Submit
- Sometimes the *password* isn't set properly, so use the HTML View to set the password again and hit Submit.

Contd . . .



Configure LDAP & Users

- Go to the “Explore” tab and select “Groups >> Employees” (Refer: screenshot)
- In the right “Table Editor” view, add a new “member” entry for the new user “johnny” similar to the existing entries. (Refer: 2nd screenshot)
- Click Submit
- The new user account “johnny” is now ready.



member	cn=johnny,ou=Employees,o=democorp,c=us
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