Instructions for deploying XAP and InsightEdge in the BlueMix environment:

1. Unpack all the credential zip files into a single directory:
   1. ca-dal12-rpt-gigaspaces-poc2-cluster.pem
   2. kube-config-dal12-rpt-gigaspaces-poc2-cluster.yml
   3. admin.pem
   4. Admin-key.pem
2. From this directory, run all of the commands discussed below against the kubernetes cluster, exporting the following environment variable on each terminal tab:

export KUBECONFIG=kube-config-dal12-rpt-gigaspaces-poc2-cluster.yml

1. TAB#1: Set the proxy:
   * 1. kubectl proxy
     2. Access Kubernetes UI:  
        <http://localhost:8001/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/#!/overview?namespace=default>
     3. Token for UI

eyJhbGciOiJSUzI1NiIsImtpZCI6IiJ9.eyJpc3MiOiJrdWJlcm5ldGVzL3NlcnZpY2VhY2NvdW50Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9uYW1lc3BhY2UiOiJrdWJlLXN5c3RlbSIsImt1YmVybmV0ZXMuaW8vc2VydmljZWFjY291bnQvc2VjcmV0Lm5hbWUiOiJkZWZhdWx0LXRva2VuLTU3dnQ2Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9zZXJ2aWNlLWFjY291bnQubmFtZSI6ImRlZmF1bHQiLCJrdWJlcm5ldGVzLmlvL3NlcnZpY2VhY2NvdW50L3NlcnZpY2UtYWNjb3VudC51aWQiOiIyNGFkOGVlZS1hMDA4LTExZTgtOWQwNS0wZTZjMDNhZjRjOTIiLCJzdWIiOiJzeXN0ZW06c2VydmljZWFjY291bnQ6a3ViZS1zeXN0ZW06ZGVmYXVsdCJ9.WqoRtcI4Bb-2nw1lpisNKa0tJ-eyO\_TQXvnux7\_pWeDNIBB3qC3A7hZtsUumtD9ZFIUBJ7FEmHoJennhZTgqdY8sOGks2wwa6q5DZyJsydUj7JCAYojK09kz7mfyFY5dvQIB2RDoWMKht\_\_kMNdfj07FccW-ZzPKZP765Ag9iwMTnK9fNraV7qWqtABCA7Evie8Rl791IppBDtlnd1oH729PuL5BK7i8Ras6DbagrO1QF8lB9ABv5YyBw2naaX\_hi4rMJDWcNyyhqYYUlidv47xr4D9aWG16sHR\_PPBAgvDNnyY7QKSh4kWtOepDb2sCfPno7ifHjW4QG7iqN8K2Ao8DPIAl7fP9YHK-7afev6TDSa41Em9C3Xm2aNrc5PeR62k6ZmkiDo4Mx5UNz5Nv7MiCfM6cHZuTmRk4xOQ1GUvdrslwx9RKpA919CulSXtP40IVSKLvjdIcezq7BT\_oogfDss13x5q8sPeBKSW-SWnE8y2RHYIDByBlL19Ut\_WgJyChRs3hVwQo\_ILF24pfsbUQPFIBVDw07MiKq4B5N4W\_-66SBZjiwXNKFOC8fCGgoEodfgsTt5u-mx9eD54LPrbe--Ky8EgsyUsGubyNHPKdocVBQxyti2OhhzLwqqaV\_KFvPzkm6u2azPmpz4z1Ypc-vn-taHVrv8k6pf9KAuA

1. TAB#2: Deploy the insightedge-space datagrid required for insightedge examples
   1. Make sure the Helm client **v2.10.0** is installed, and configure the client and server by calling the helm init command.
   2. Make sure there’s no leftover insightedge-space deployment using helm del:
      1. helm del --purge insightedge-space
   3. Copy the <insightedge-home>/insightedge/tools/kubernetes/charts/insightedge folder into the blumix folder containing the security files (so it contains an insightedge folder with the chart files)
   4. Deploy a space called insighedge-space, with manager and zeppelin
      1. helm install insightedge --name insightedge-space --set manager.resources.limits.memory=400Mi
      2. Note: the --set option overrides the default manager memory to ensure it has enough memory - for some reason it requires more memory on blumix than minikube. Rnd is investigating and will calibrate the defaults to remove this in future releases.
   5. Call to get status of installation progress:
      1. helm status insightedge-space
   6. Access the REST Manager API interface:  
      [http://rpt-gigaspaces-poc2-clus.us-south.containers.appdomain.cloud:30890](http://rpt-gigaspaces-poc2-clus.us-south.containers.appdomain.cloud:30890/)
2. TAB#3: Call insightedge-submit with the relevant arguments:
   1. Obtain the Spark master URL using the following kubectl cluster-info command:

kubectl cluster-info

output> Kubernetes master is running at https://169.47.70.10:20864

* 1. Call the submit using the URL obtained in the previous step: /<homedir>/insightedge/bin/insightedge-submit --master k8s://https://169.47.70.10:20864 …