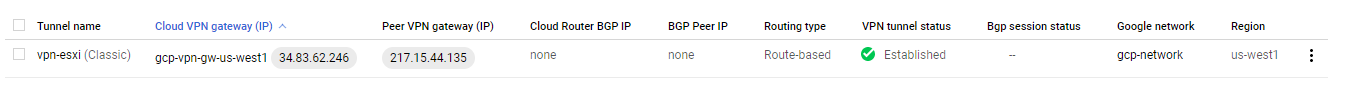
Velostrata Migration to GCP

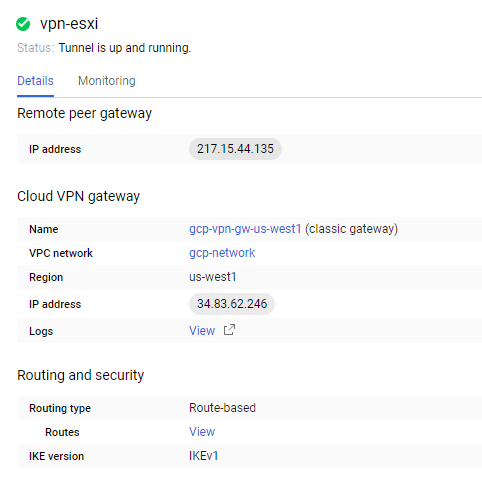
After you’ve configured the environment with the IAM roles and the intital networking setup, follow this guide:

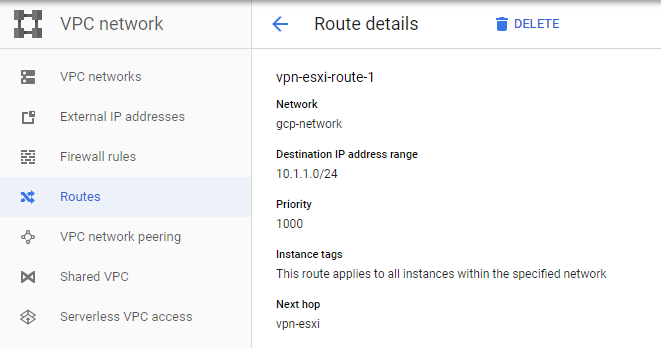
Creating the Velostrata Manager in GCP

VPN Tunnel in GCP

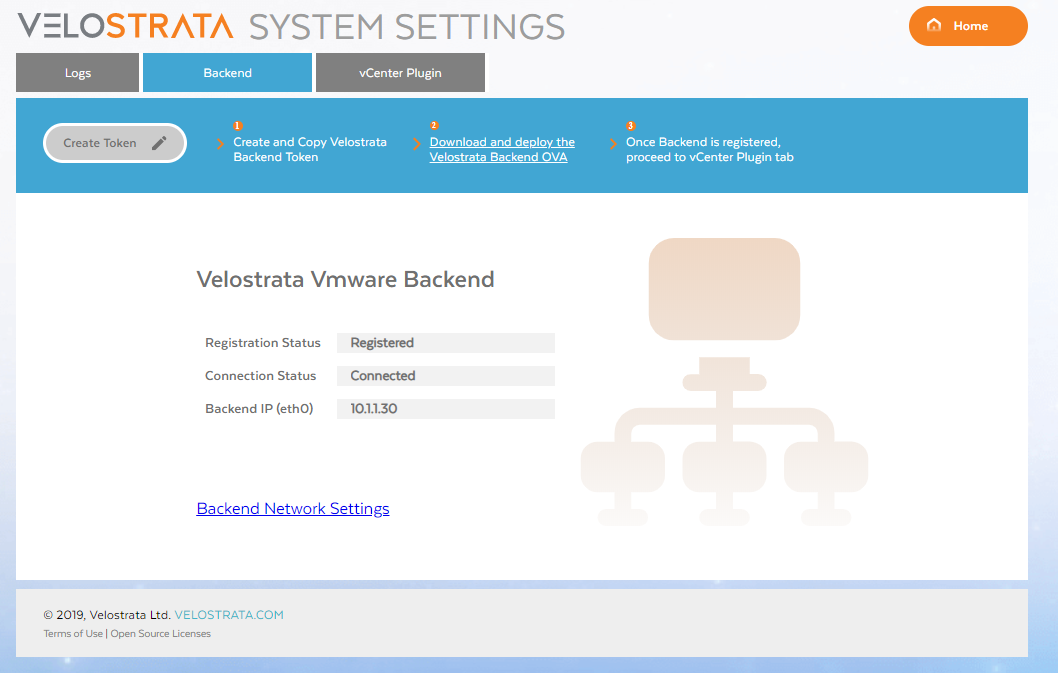
Velostrata will communicate with vSphere through a private connection; you need to create a VPN tunnel in GCP that connects to the VMWare data center.



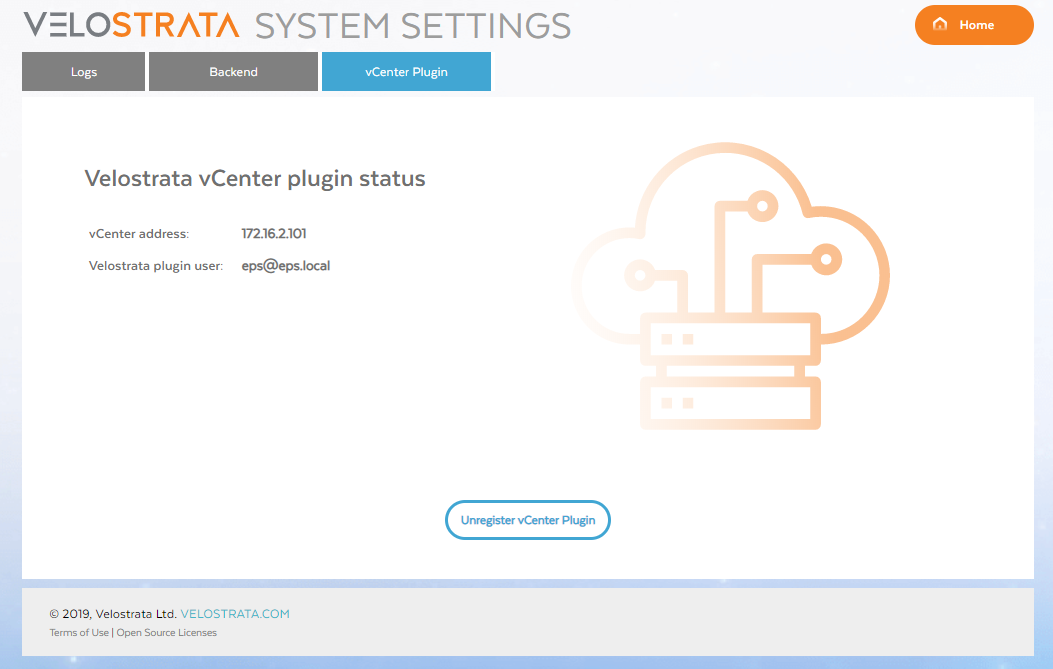




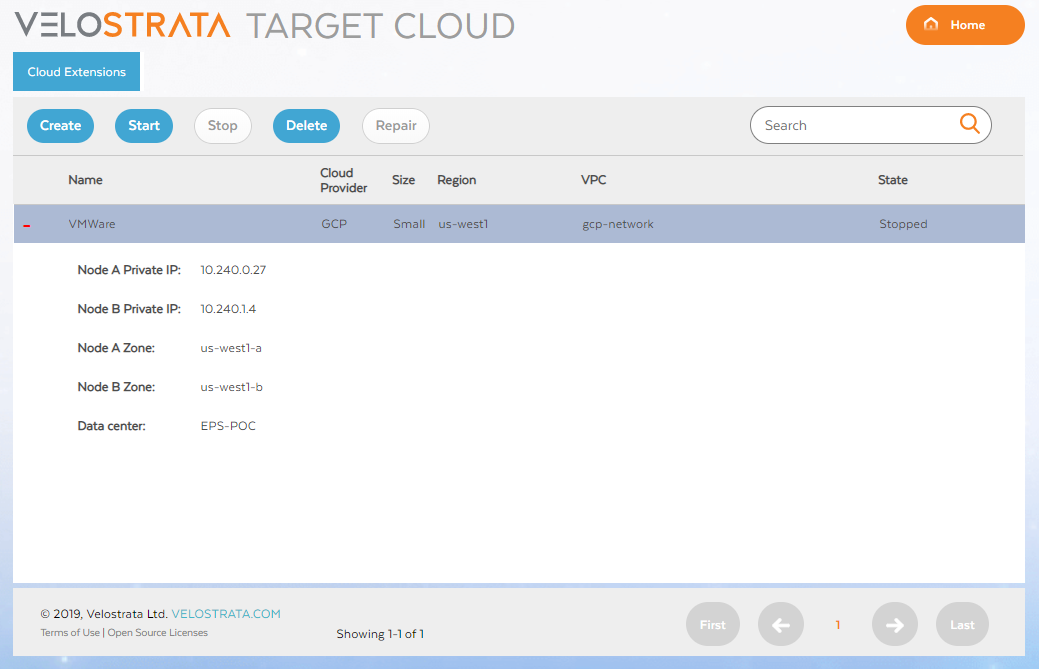
vSphere Configuration



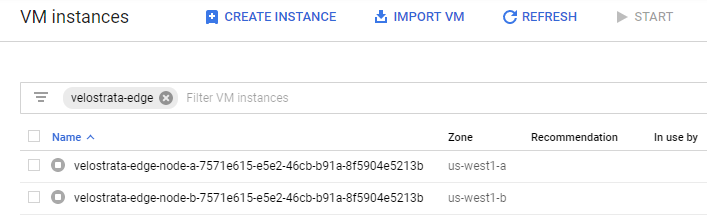
vCenter Plugin Installation



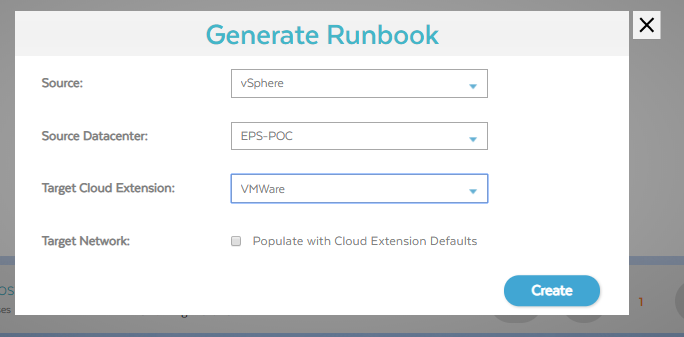
Configure Cloud Extension



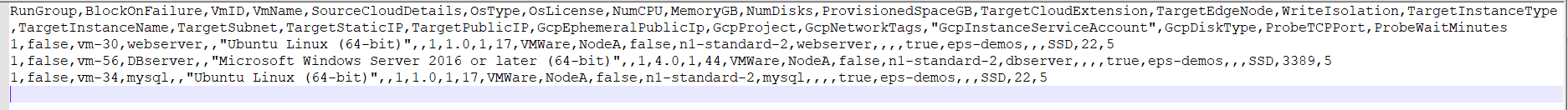
These are the VMs that Velostrata will create in GCP for the waves migration, it will always create two, and the size of the VMs depends if the configuration is “Large” or “Small”



Generate the Runbook



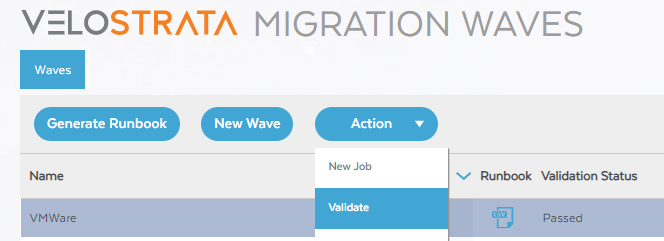
Modify the CSV to include the instance type, the GCP project, and the migration group.



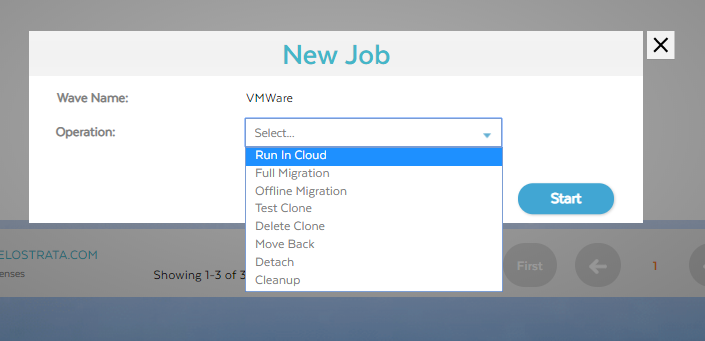
Create a new Wave by uploading the runbook:



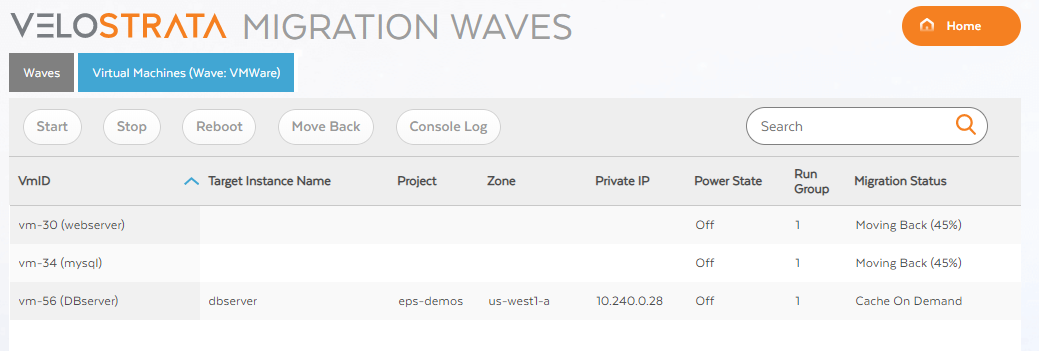
Validate the runbook:



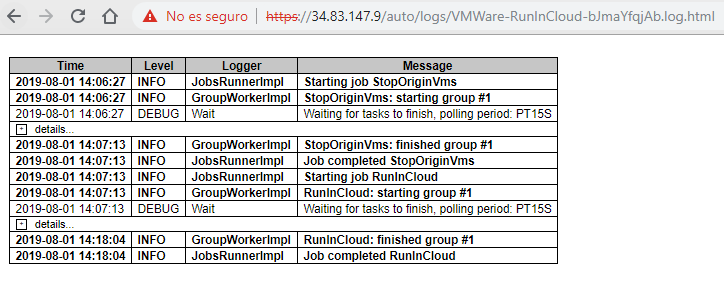
Create a new Job:

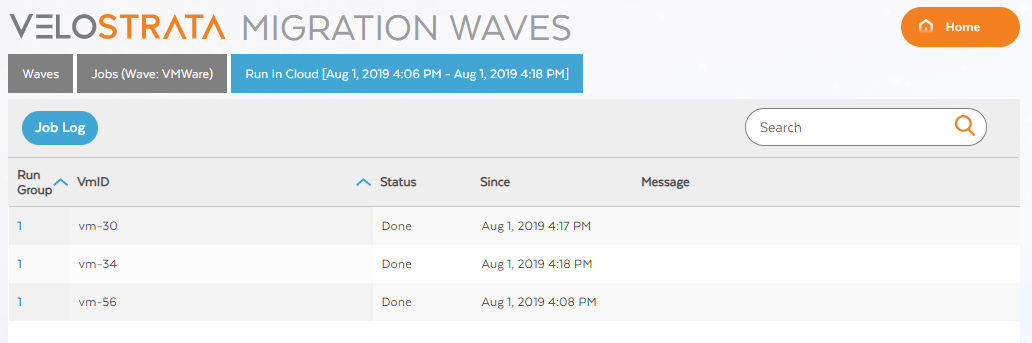


You can monitor the migration status:



And you can see the migration logs in more detail:





Troubleshooting

Here are a few tips you need to consider when migrations are not working smoothly:

* Velostrata Manager VM hast to have access to HTTP and HTTPS.
* VPN Tunnel has to have the appropriate firewall rules to allow the connection.
* Make sure you have enough quota for storage in the GCP project.
* Make sure the subnets can communicate with each other.
* You can always confirm what’s happening using [Stackdriver logs](https://cloud.google.com/velostrata/docs/how-to/monitoring/viewing-stackdriver-logs).
* You can also see the activities page in GCP for any other error as in the quota when Velostrata tries to create a new VM or something similar.
* For Linux VMs, you have to install the [Velostrata prep package](https://cloud.google.com/migrate/compute-engine/docs/4.2/how-to/prepare-vms-servers/preparing-linux-vms). Otherwise, the VMs in GCP won’t be able to initiate.
* Migrating AWS EC2 instances to GCP didn’t work; when instances were initiating in GCP, there was always an error when booting.