

12. Appendix A: References

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12.1. References

Documentation Reference

MCP Q1 2018 Documentation: <https://docs.mirantis.com/mcp/q1-18/>

Where do all my artifacts come from?: <https://docs.mirantis.com/mcp/q2-18/mcp-ref-arch/repo-plan/mirror-image-content.html>

12.2. Useful Environment Links

Horizon	https://192.168.2.80/auth/login/
Prometheus	http://192.168.2.80:15010/graph
Alertmanager	http://192.168.2.80:15011/#/alerts
Grafana	https://192.168.2.80:8084/login
Kibana	https://192.168.2.80:5601/
Jenkins	https://192.168.2.80:8081/login
Gerrit	https://192.168.2.80:8070/login
LDAP UI	http://192.168.2.90:8089
Deployment Documentation	http://192.168.2.80:8090/index.html

12.3. Useful Commands ¶

List of useful and commonly used commands for your reference.

Salt / Reclass Commands

Sync the Reclass inventory across all nodes (Usually ran after you make changes to the model):

```
# salt '*' saltutil.sync_all
```

Show the top-level pillars for a <node>:

```
# salt '<node>' state.show_top
```

Show the top-level *rendered* pillars for all nodes:

```
# reclass-salt --top
```

Restart a <service> on a <node>:

```
# salt '<node>' service.restart <service>
```

Apply a <state> on a <node>:

```
# salt '<node>' state.apply '<state>'
```

Run an arbitrary <command> on the <node>

```
# salt '<node>' cmd.run <command>
```

OpenStack Commands

Set the environment variables to authenticate as an OpenStack user. The *rc-file* in this case is a file containing the environment variables such as *OS_PROJECT_NAME* and *OS_USERNAME*

```
# source <rc-file>
```

```
# cat keystonevc3
export OS_IDENTITY_API_VERSION=3
export OS_AUTH_URL=http://192.168.2.10:35357/v3
export OS_PROJECT_DOMAIN_NAME=Default
export OS_USER_DOMAIN_NAME=Default
export OS_PROJECT_NAME=admin
export OS_TENANT_NAME=admin
export OS_USERNAME=admin
export OS_PASSWORD=r00tme
export OS_REGION_NAME=RegionOne
export OS_INTERFACE=internal
export OS_ENDPOINT_TYPE="internal"
export OS_CACERT="/etc/ssl/certs/ca-certificates.crt"
```

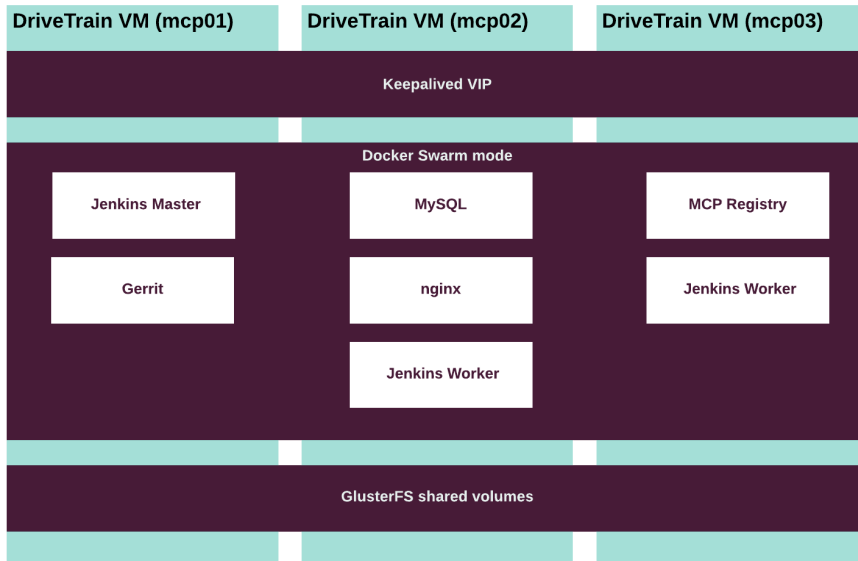
It's your responsibility to maintain and create new environment files with the right username, password, project name, etc. You must set these variables before executing any OpenStack commands on the CLI (Similar to how you would log-in to Horizon before being able to create VMs)

Create a new VM called *vm1* using the image *cirros* and flavor *m1.tiny* on the network *private*:

```
# openstack server create vm1 --image cirros --flavor m1.tiny \
  --nic net-id=private
```

12.4. Advanced Debugging

DriveTrain has several components which run in Docker Containers. When it comes time to debug DriveTrain related issues, it may be time to bust out your Docker skills.



List all Docker containers (Running, exited, etc)

```
root@cid01:~# docker ps -a
```

View the logs of the container; *container-ID* can be obtained by the *docker ps -a* command

```
root@cid01:~# docker logs <container-ID>
```

Run a new bash session in the running <container>

```
root@mon01:~# docker exec -it <container> /bin/bash
```