Install ArcGIS Linux Portal on AWS

The Esri installation instruction has some missing or wrong information. For example, setup program is located at /arcgis/portal if you install it from AWS Marketplace. Shell script argument is -lf, not -la for listadministratorusertypes.sh.

Step-by-step guide

- 1. cd /arcgis/portal/tools/createportal
- 2. edit createportal properties and fill in the property values such as PORTAL_ADMIN_USERNAME, PORTAL_ADMIN_PASSWORD, and PORTAL_LICENSE_FILE.



The 'password' field can only have the numbers 0-9, the ASCII letters a-z, A-Z and the dot character (.).

- 3. POTAL_CONTENT_DIRECTORY cannot be empty. Enter /arcgis/portal/usr/arcgisportal/.
- 4. PORTAL_USER_TYPE_ID is mysterious. Use creatorUT based on the license json file.
- 5. Run /arcgis/portal/startportal.sh
- 6. Run ./createportal.sh -f createportal.properties

```
Unable to connect to https://172.31.49.200:7443/arcgis/portaladmin. Check the URL and restart the portal if necessary.

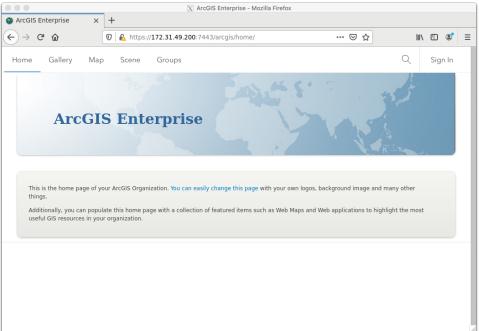
Exiting the createportal utility.
```

- a. If you see the above message run /arcgis/portal/startportal.sh again.
- 7. The above command will encrypt password in creatportal.properties. It takes a long time so please be patient. At the end, it will show the following output:

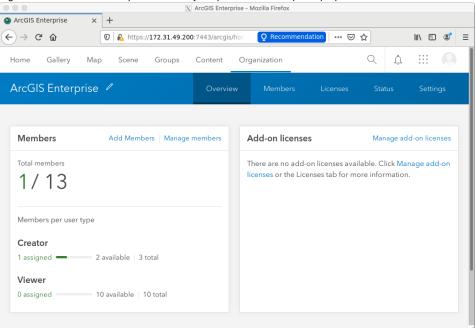
8. Run./listadministratorusertypes.sh -lf /home/arcgis/ArcGIS_Enterprise_Portal_107_283791_20190814.json. You'll get the following output.

- 9. Open a web browser and connects to the server URL using public IP. Portal redirects to internal IP address, which is not accessible from outside.
- 10. Install firefox from super user. #apt install firefox.
- 11. sudo apt-get install dbus-x11
- 12. ssh -Y to the server to establish Xwindow session.

13. Run firefox with the internal URL.

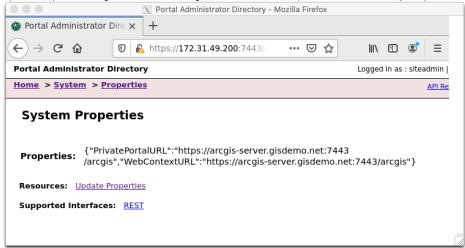


14. Login with the username and password that you specified in createportal.properties.

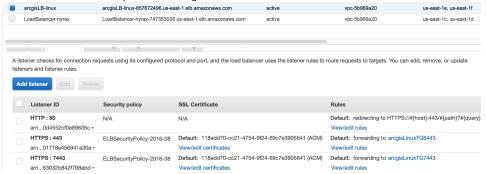


- 15. Open the https://172.31.49.200:7443/arcgis/potaladmin/ in Firefox.
- 16. Click **System > Properties** to allow the portal access using public DNS entry.

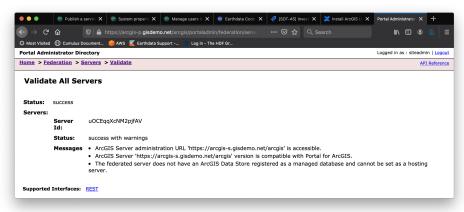
17. Update Properties using JSON after entering the DNS information (WebContextURL is required):



- 18. Open web browser from your machine and enter https://arcgis-server.gisdemo.net:7443/. You should be able to access portal.
- 19. You can put portal behind load balancer with AWS certificate manager. Target group should use HTTP1. In that case, change WebContextURL to load balancer listener name like https://arcgis-s.gisdemo.net:7443/arcgis. Path based forwarding rule will (e.g., /portal/ forwards to 7443) not work since both server and portal uses /arcgis as context.



- 20. If you don't want to specify port 7443, one possibility is to have create another load balancer with a different DNS entry like arcgis-p.gisdemo.net.
- 21. It is OK to use load balancer URL for System Properties in Step 14.
- 22. Check /arcgis/portal/usr/arcgisportal/logs for any error log.



- 23. Federate with ArcGIS Server.
- 24. If you federate Portal with Server, accessing server admin page redirects to Portal. Use Portal username and password to login server manager page.
- **25.** Become root and run # systemctl enable arcgisportal.service
- 26. If you run portal on different machine from datastore server, become root and disable datastore service. This will lower system load.
 - a. systemctl disable arcgisdatastore.service

Running Multiple Portals

It is OK to run multiple portals with the same license.

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