

Installing Node-RED on an 'Always Free' Arm Instance in the Oracle Cloud

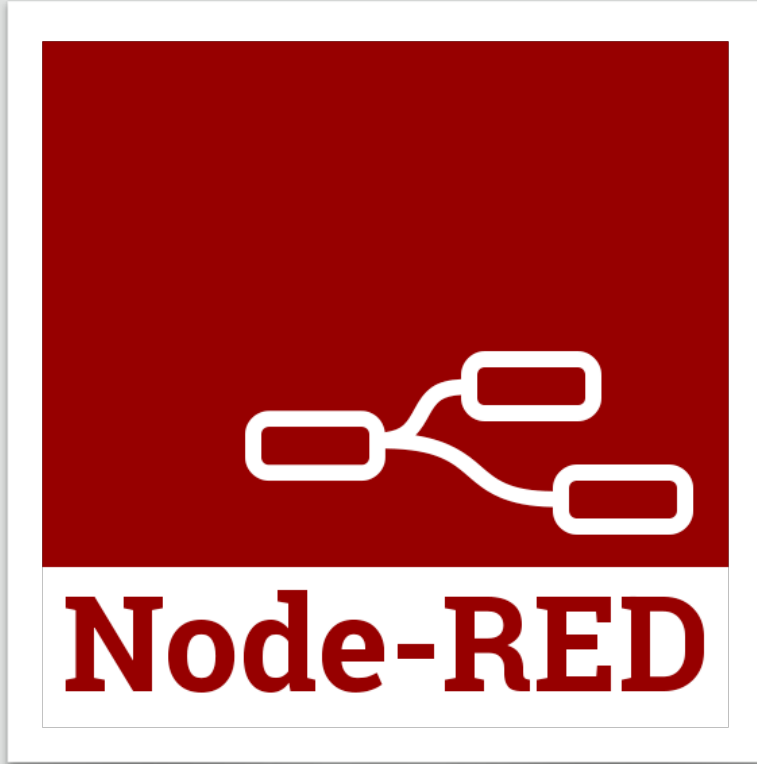
Todd Sharp
Developer Advocate - Cloud & Cloud DB
todd.sharp@oracle.com
@recursivecodes



About Me

- Developer Advocate
- Twitter: @recursivecodes
- Beards and Beers (YouTube)
- [YouTube.com/c/recursivecodes](https://www.youtube.com/c/recursivecodes)
- <https://recursive.codes>
- <https://github.com/recursivecodes>

ORACLE



ORACLE®

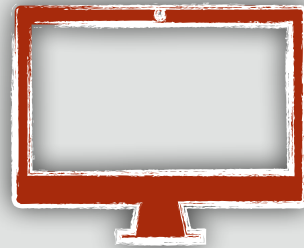
Cloud Infrastructure

In this session, you'll learn how to install, launch, secure and integrate Node-RED on an “always free” instance in the cloud.

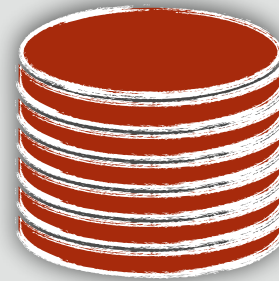
The Best “Always Free” Tier in the Cloud



ATP, ADW, JSON, APEX. 2 databases, each with 1 OCPU and 20 GB storage. NoSQL 133 million reads/month, 3 tables, 25GB each.



2 AMD VMs with 1/8 OCPU and 1 GB RAM each.
4 Ampere Arm cores, 24 GB RAM



200 GB Block Volume Storage. 10 GB Object Storage. 10 GB Archive Storage.



1 Load Balancer, 10 Mbps bandwidth. Monitoring, Notifications, Resource Manager (Terraform), Outbound Data

<https://www.oracle.com/cloud/free/#always-free>

ORACLE

Create an Account

<http://cloud.oracle.com/free>

Launch the “Always Free” Instance



Install Node-RED

<https://github.com/node-red/linux-installers>

Secure Node-RED

- Enable HTTPS access
 - Install SSL/TLS cert
- Secure editor & admin API
 - User/Password
- Secure nodes/routes

<https://nodered.org/docs/user-guide/runtime/securing-node-red>

ORACLE



Integrating with Oracle Cloud

What Else Can You Do on the OCI Free Tier?

- [How To Set Up and Run a \(Really Powerful\) Free Minecraft Server in the Cloud](#)
- [Install & Run Discourse For Free In The Oracle Cloud](#)
- [Stand Up A Free Blog In 15 Minutes With Ghost In The Oracle Cloud](#)
- [Getting Started With RabbitMQ In The Oracle Cloud](#)
- [Launching Your Own Free Private VPN In The Oracle Cloud](#)
- [Create & Host Your Own Dedicated Counter-Strike: Global Offensive \(CS:GO\) Server for Free \(Forever!\)](#)

Socials & Contact

- <https://blogs.oracle.com/author/todd-sharp>
- <https://recursive.codes>
- <https://twitter.com/recursivecodes>
- <https://www.linkedin.com/in/toddrsharp/>
- <https://github.com/recursivecodes>
- todd.sharp@oracle.com

Links

- <https://blog.matrixpost.net/lets-encrypt-certbot-auto-deprecated/>
- <https://blogs.oracle.com/developers/post/installing-node-red-in-an-always-free-vm-on-oracle-cloud>
- <https://blogs.oracle.com/developers/post/free-ssl-certificates-in-the-oracle-cloud-using-certbot-and-lets-encrypt>
- <https://nodered.org/docs/user-guide/runtime/securing-node-red>
- <https://flows.nodered.org/>
- <https://blogs.oracle.com/developers/post/interacting-with-your-oracle-on-prem-and-autonomous-db-instances-from-node-red>
- <https://recursive.codes/blog/post/1320>