PENGUIN COMPUTING | POD

REACH YOUR COMPUTING GOALS WHILE YOU MANAGE YOUR BUDGET WITH BARE METAL HPC IN THE CLOUD

POD Summary

Penguin Computing On-Demand (POD) allows organizations to utilize a high-performance, bare-metal, HPC computing environment in the cloud without having to invest in on-premise infrastructure. POD also eliminates many of the performance, scalability, and security challenges associated with the shared infrastructure of multi-tenant, cloud environments.

Jobs are easy to submit and monitor from either a traditional Linux CLI environment, or through an intuitive and secure web portal. POD's HPC cluster is ready-to-run with hundreds of pre-installed applications, eliminating much of the complexity of building, managing, and scaling high-performance computing environments. This efficiency and economy of scale saves both capital and operational costs while ensuring a clear pricing model.

Resources for any workload

POD's bare-metal, InfiniBand, on-demand HPC compute cluster is ideal for organizations in manufacturing, biosciences, research, energy, design, and finance - or any organization with high-performance computing needs.

Penguin Computing has well over two decades in optimizing HPC environments and applications. As a user of POD, we provide you with free support from our HPC experts who can assist you in running applications, managing workflows, and getting the best experience with POD.

ANSYS
engys
MATLAB
OpenFOAM
WRF
NUMECA INTERNATIONAL
SIMULIA
lumerical illuminating the way
FLOW-3D
COMSOL
SIEMENS
MSC Software

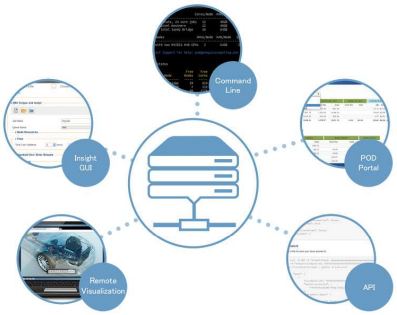
3D Remote Visualization

For those users with remote visualization requirements, POD also offers Scyld Cloud Workstation. Traditional HPC environments require users to download large data files to on-premise workstations to post-process simulations. This process can be frustrating, tedious, and detrimental to a project's timeline.

Powered by Penguin Computing's Scyld Cloud Workstation, POD's remote, 3D-accelerated visualization solution offers significant time savings by moving pre- and post-processing to the cloud and eliminating the need to download large data files. POD delivers high-end workstation performance in an on-demand cloud environment. Users simply connect to the allocated, remote desktop from virtually any device running Chrome, Firefox, Safari, or Internet Explorer. No additional plug-ins or application clients are necessary. Access is provided through HTTPS for security and typically requires no additional firewall rules to access.

POD Features

- True HPC Computing - bare metal on non-virtualized nodes
- Free technical support from HPC experts
- Support staff with backgrounds in Science and Engineering
- No data transfer charges - in or out
- Predictable Billing - simple, pay-per-use
- No set-up charges



- Hosted in a Tier III, US data center
- SSAE 16 SOC1 Type II Audited data center
- Redundant, secure Internet access through multiple Tier 1 and Tier 2 providers

POD HPC Resources & Pricing

Intel® Skylake Nodes

- Dual Intel Xeon Gold 6148 @2.4GHz
- 40 cores per node
- 384 GB RAM per node
- $0.11 per core hour

Intel® Broadwell Nodes

- Dual Intel Xeon E5-2680 v4 @2.4GHz
- 28 cores per node
- 256 GB RAM per node / 9 GB per core
- $0.10 per core hour

Compute Node Details & Specifications

- Lustre storage systems
- Intel Omni Path Architecture non-blocking Fabric
- Non-hyperthreaded cores
- No multitenancy

On-Demand 3D Remote Desktops

- Run real-time, interactive GUI workflows and 3D visualization
- Clientless remote desktop. No browser plugin or application necessary
- Designed for HPC desktop applications and post-processing tools
- High-end workstation performance in an on-demand cloud environment
- NVIDIA® GRID technology provides H.264 quality with minimal latency
- Secure HTTPS access - no additional ports needed through your firewall
- Support of all major browsers (Chrome, Firefox, Safari, Internet Explorer)

High Speed User Storage

- Allocated Storage - $0.10/per GB month
- Segregated home volume per user, shared volumes can be configured

More Information

We are happy to answer any questions you may have about POD.

https://pod.penguincomputing.com/contact
podsales@penguincomputing.com
+1 (888)-PENGUIN (736-4846)