Research Computing Resources

Last updated: April 02, 2021

	Illinois Campus Cluster	Blue Waters	Innovative Systems Lab	HT Condor Pilot	XSEDE	AWS	AZURE
TYPE OF RESOURCE	HIGH-PERFORMANCE COMPUTING	HIGH-PERFORMANCE COMPUTING	EXPERIMENTAL	HIGH-THROUGHPUT	VARIED RESEARCH COMPUTATION SERVICES	VARIED	VARIED
WEBSITE	Campus Cluster	Blue Waters	Innovative Systems Lab	HTC Wiki (NetID Required)	XSEDE	AWS at Illinois	Azure at Illinois
SOFTWARE PACKAGES	a variety of core software and libraries available Complete List Here	a variety of core software and libraries available Complete List Here	Several technologies available including OpenStack, Hadoop, GPU's, etc.	HT Condor pilot shares many software packages with the Engineering Linux Environment	May vary slightly by resource, but a complete list is available here	AWS Products (external site)	Azure Products (external site)
DATA STORAGE OPTIONS	7GB Quota (additional storage available for purchase)	1TB Home Dir, 5TB Proj. Space	Varies based on project scope from 10 to 100's of TeraBytes	10GB initial quota	Varies by resource	Scalable to the project via EC2 and other AWS offerings	Scalable to the project
USER GUIDES / ONLINE SUPPORT	Campus Cluster User Guide	Blue Waters Education and Training	Experimental systems, so very little support available	Minimal on-campus support, but user community has a wealth of information.	XSEDE User Guides	Getting started with AWS	Azure Tutorials from Microsoft
PRIMARY USE CASES	Campus Cluster Use Cases	Petascale Research Use Cases at Blue Waters	cutting-edge computing environments for experimentation and evaluation	Jobs that are more ideally suited to a High Throughput (loosely coupled) environment	Each resource has recommended uses - the resource name will activate a pop-up with relevant information	A variety of use cases can be found here	A variety of use cases can be found here
HARDWARE	ICCP Node Information	Blue Waters Node Information	ISL Resource Information	Retired Campus Cluster Nodes (various configurations)	Varies by resource	N/A	N/A
HOW TO GET STARTED	Engineering users can take advantage of a college-level investment. Email engrit-help@illinois.edu	Blue Waters Getting Started Guide	Contact Vlad Kindratenko (NCSA)	Request Access	Request an allocation	Request an AWS Account	Request an Azure Account
CONTACT INFO	help@campuscluster.illinois.edu	help+bw@ncsa.illinois.edu	kindr@ncsa.illinois.edu	htc-help@illinois.edu	help@xsede.org	aws-support@illinois.edu	azure-support@illinois.edu
COST OF USE	Varies by selected investment option	FREE (with approved allocation)	FREE	FREE	FREE (with approved allocation)	Varies by selected options	Varies by selected options