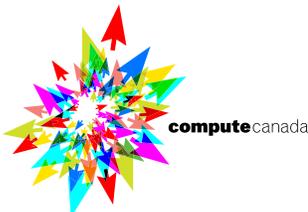# WHAT YOU NEED TO KNOW ABOUT ARBUTUS
CANADA'S NEWEST
CLOUD RESOURCE FOR RESEARCH

1 **Located at the University of Victoria,** Arbutus is the cornerstone to Compute Canada's national cloud federation, providing Canada's academic community with robust and responsive cloud computing services to tackle research challenges of all sizes and scales.

2 **Arbutus is one of four new national systems Compute Canada is deploying** with its regional partners as part of one of the biggest advanced research computing renewals in Canada's history. Learn more about this technology renewal at www.computecanada.ca/techrenewal

3 **Arbutus is built for big data.** Its powerful storage and compute capabilities are designed to support researchers processing, sharing, and storing massive data sets. With 1.6 PB of storage available in a triple-redundant configuration and 7,640 CPU cores across 290 nodes (each with 256 or 512 GB memory), Arbutus can store the equivalent of 10 million eight-drawer filing cabinets of text and process calculations thousands of times faster than a desktop computer.

4 **Arbutus responds to unique needs.** Its virtual machines (VMs) allow users to easily configure Arbutus' computing environment to fit their project requirements. Researchers can use Arbutus to build online portals or platforms, handle data scraped from the web, run on-demand visualizations, or share work with other devices, team members, or external collaborators.

5 **Arbutus supports a broad range of projects.** Its flexible and responsive cloud environment can be used to advance discovery and innovation in a range of disciplines, from high-energy physics to humanities and social sciences to earth and environmental sciences.

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6   **Arbutus runs OpenStack,** an open source, proven and commonly used cloud operating platform. Researchers will be able to leverage the cloud resources at all Compute Canada sites for a geographically distributed platform that provides redundancy and high availability.

7   **Arbutus keeps your data in Canada.** All of Compute Canada's cloud servers are located at Canadian institutions, ensuring your research data remains in Canada within a managed, secure environment.

8   **Arbutus provides expanded compute and storage capabilities for researchers** across the country. With its regional partners, Compute Canada serves over 11,000 Canadian researchers, including more than 3,000 faculty members across all academic disciplines.

9   **Arbutus is supported by a distributed team of experts** through Compute Canada's national support model. Email the National Help Desk at support@computecanada.ca and one of our experts will help solve your research challenges.

10   **The system name "Arbutus" references the Arbutus tree,** commonly found on the south coast of Vancouver Island. Canada's only native broadleaved evergreen tree, the Arbutus is also a symbol of depth and integrity.

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