

Introduction to HPC

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Content Title	Module 2 - 1. Introduction to HPC
Content Type	Lecture Slides
Part Of	Module 2: CyberGIS Platform and Software
Learning Objectives	<p>(for all of Module 2)</p> <p>By the end of the semester, the students will be able to:</p> <ul style="list-style-type: none">◦ Appreciate the value of CyberGIS in performing computationally intensive analyses on big geospatial data.◦ Get familiarized with the CyberGIS software ecosystem and competence using the gateway and the toolkit.◦ Re-think the classic geospatial analyses in the context of cyberinfrastructure and high performance computing.
Background Knowledge	<p>(for all of Module 2)</p> <ul style="list-style-type: none">• Concepts and terminology introduced in Module 1• Basic computer literacy

Resources Needed	(for all of Module 2) <ul style="list-style-type: none"> • Linux Operating System • Cloudera Manager
Work Mode	(for all of Module 2) Watching the lectures and doing lab assignments
Relation to Project	(for all of Module 2) This module (estimated 20-25 hours) is designed to attract students who have taken Module I and would want to learn more practical knowledge and skills of CyberGIS.
Feedback Needed	(for all of Module 2) General feedback