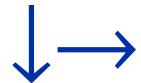


# Running Chapel on the Cloud



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# Outline



- Linux Packaging
- Fedora on the cloud
- Current progress
- Language development considerations

# Linux Packaging



- Coherent environment
  - Develop applications
  - Application interoperability
  - Easy installation

# Fedora Linux Packaging



- **Packaging Guidelines**
  - Shared libraries with sonames preferred
  - No RPaths
  - Dependency bundling discouraged
  - Single python version and dependency versions - no virtual environments
  - Specific C and C++ compiler build flags
  - Chapel package management integration?

# Fedora on the Cloud



- Fedora on the cloud
- Fedora package is available

# Current Progress



- It installs
- Dependencies that give higher performance still needed
- Still need good way to launch and compile

# Language Development Considerations



- Integrating with an operating system takes time
- More thorough testing
- Conduit to distribute programs - C, C++, Python, Ruby, R have good integrations
- Chapel package management integration?
- Enables reproducible data science and engineering

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