

Better access to HPC with nDemand

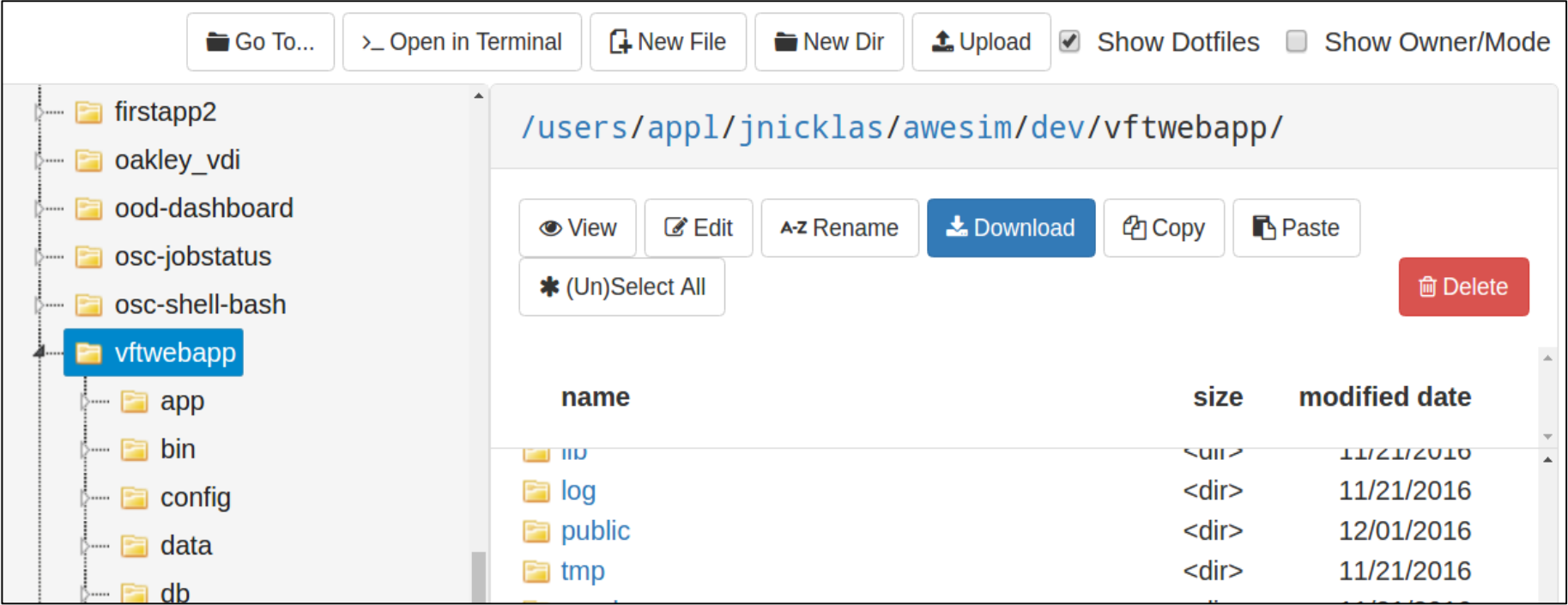
PI: David Hudak, Ph.D., Ohio Supercomputer Center

Use the web to access HPC systems

Makes it easy

- No client installation required
- Access from anywhere, any device

Example: File access (browse, edit, etc)



Example: Manage jobs (view, submit, etc)

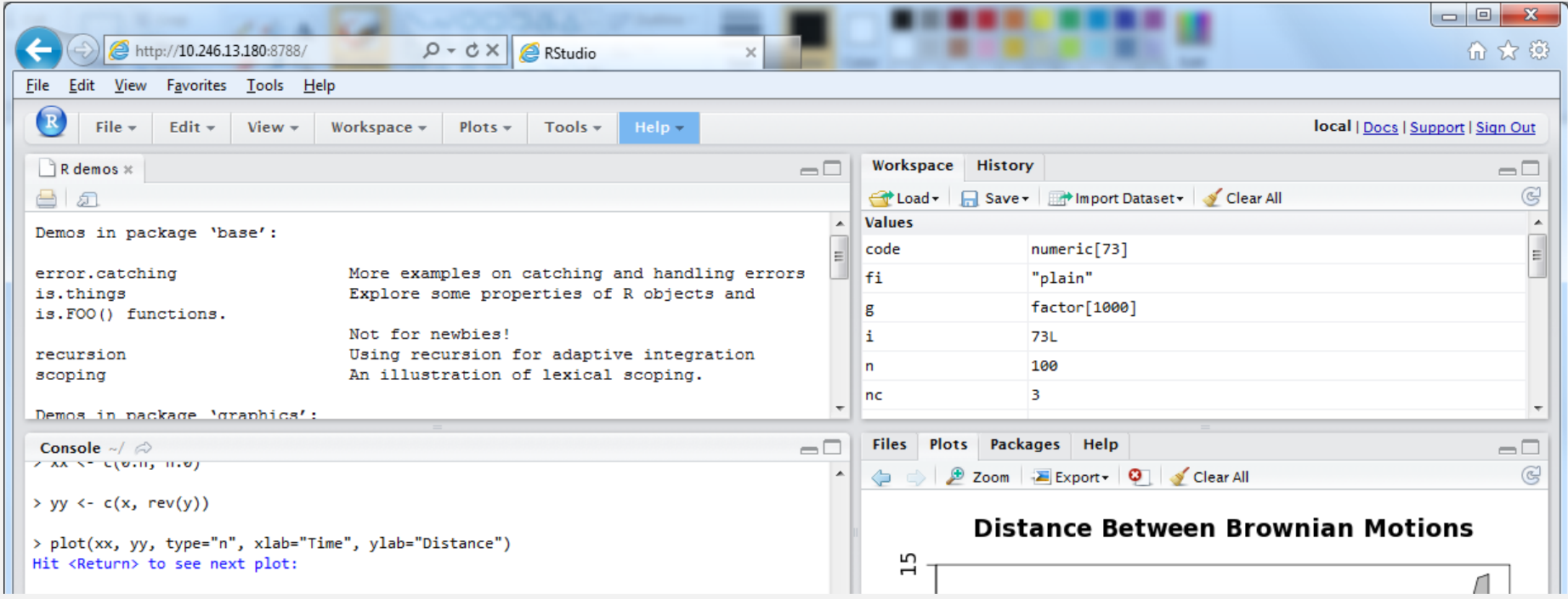
Active Jobs									
Show 50 entries									
ID	Name	User	Account	Time Used	Queue	Status	Cluster		
> 3057900.owe...	high_up_PIV_N_80_PR_1_2_w_fm	osu9725	PAS1136		parallel	Good	Owens		
> 3130444.owe...	RASPA_convert	osu1842	PAA0026	140:50:24	serial	Running	Owens		
> 3130446.owe...	RASPA_convert	osu1842	PAA0026	138:30:25	serial	Running	Owens		
> 3130447.owe...	RASPA_convert	osu1842	PAA0026	138:09:22	serial	Running	Owens		
> 3133547.owe...	high_u_PIV_N_80_choke_wo_fm	osu9725	PAS1136	17:36:02	parallel	Running	Owens		
> 3137290.owe...	Case42	osu8290	PAA0008	96:36:34	longserial	Running	Owens		
> 3137285.owe...	Case195	osu8290	PAA0008	163:01:58	longserial	Running	Owens		
> 3137292.owe...	Case261	osu8290	PAA0008	165:44:57	longserial	Running	Owens		

Democratize access to software tools

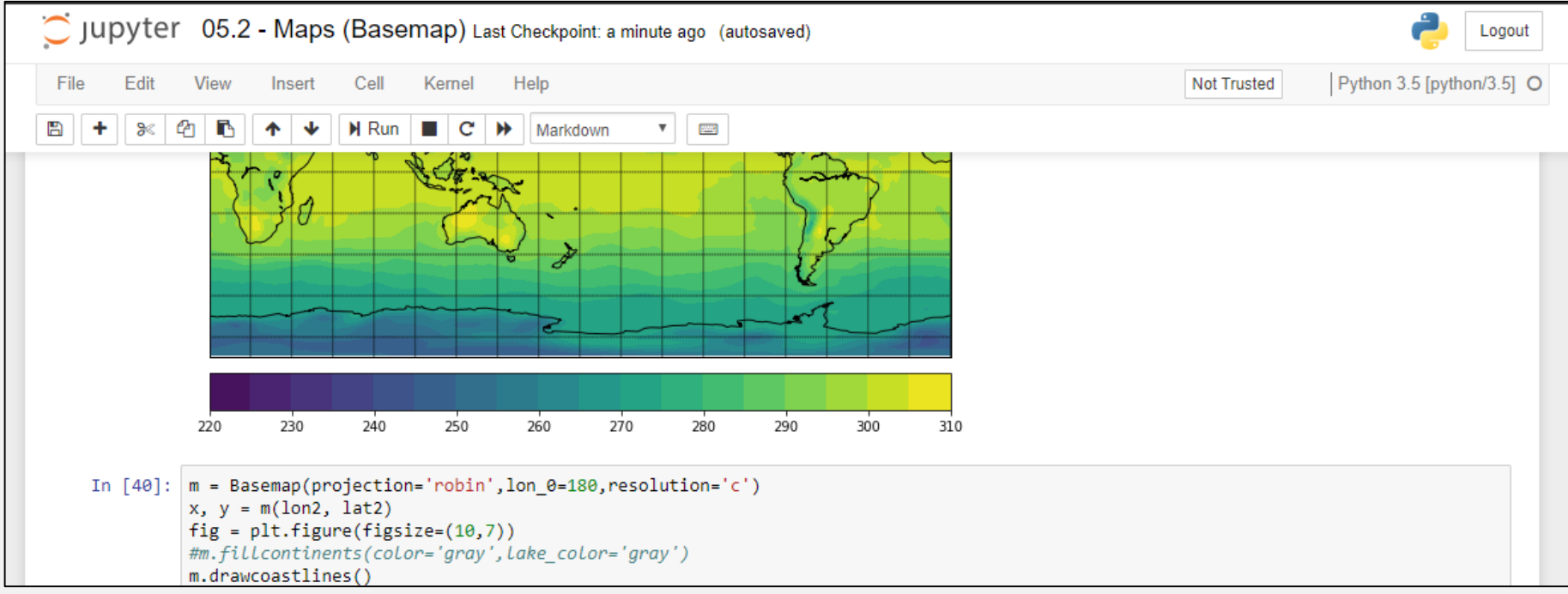
Makes it useful

- Use the same tools at class, work and home
- Plugins can be made for any application

Example: RStudio Server – R IDE



Example: Jupyter Notebook – Python IDE

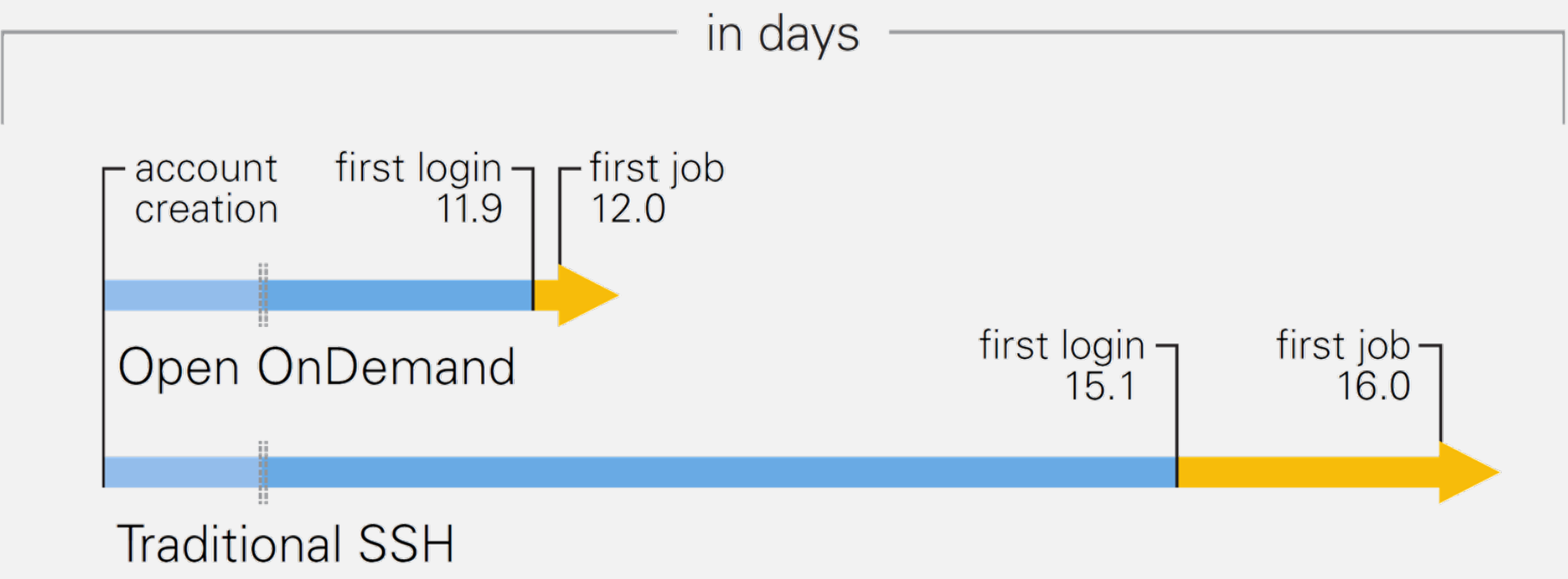


Applicable to many scientific domains

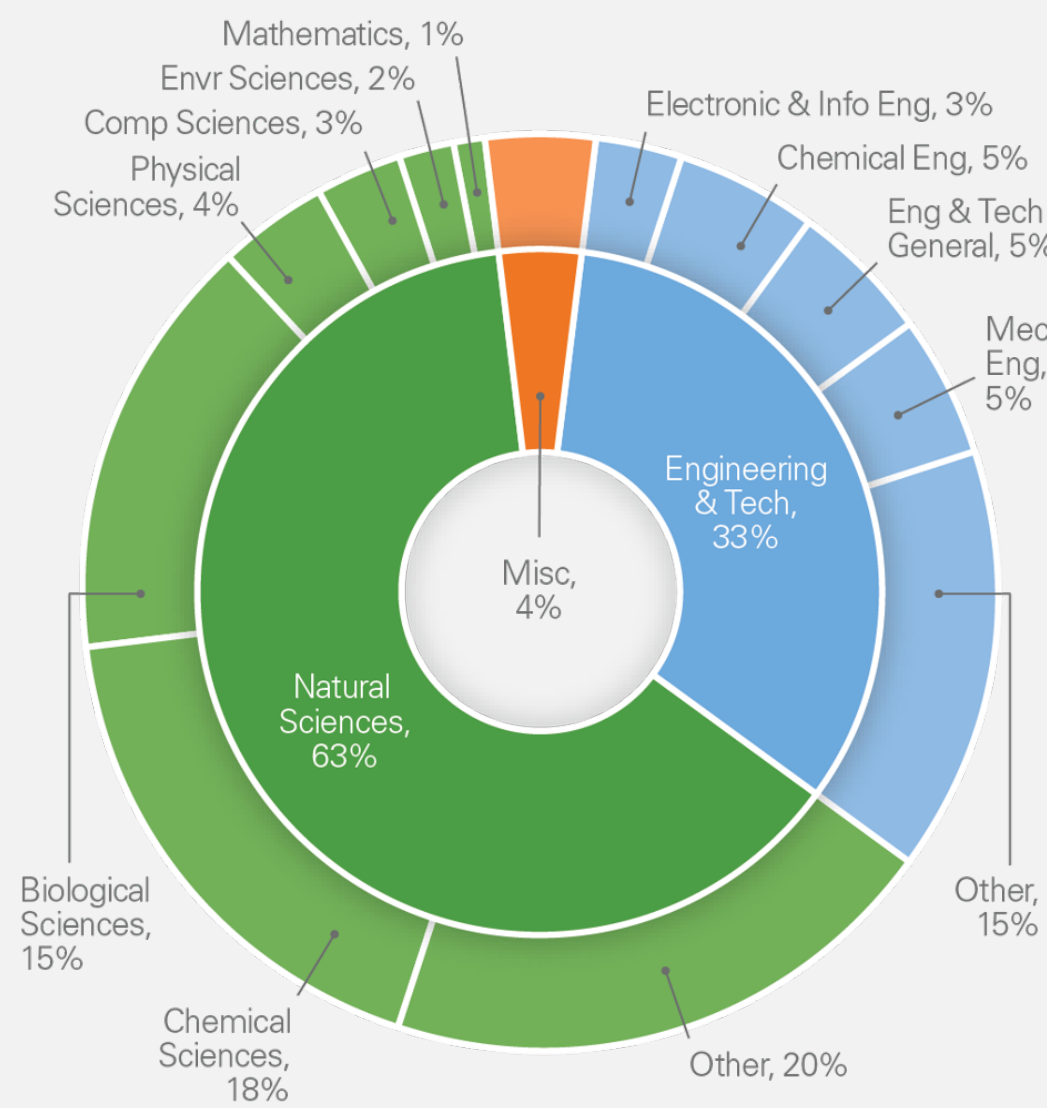
Makes it impactful

- Attracts non-traditional HPC clients
- Reduces the time to science

Example: OSC clients start work faster



Example: OSC clients from many fields

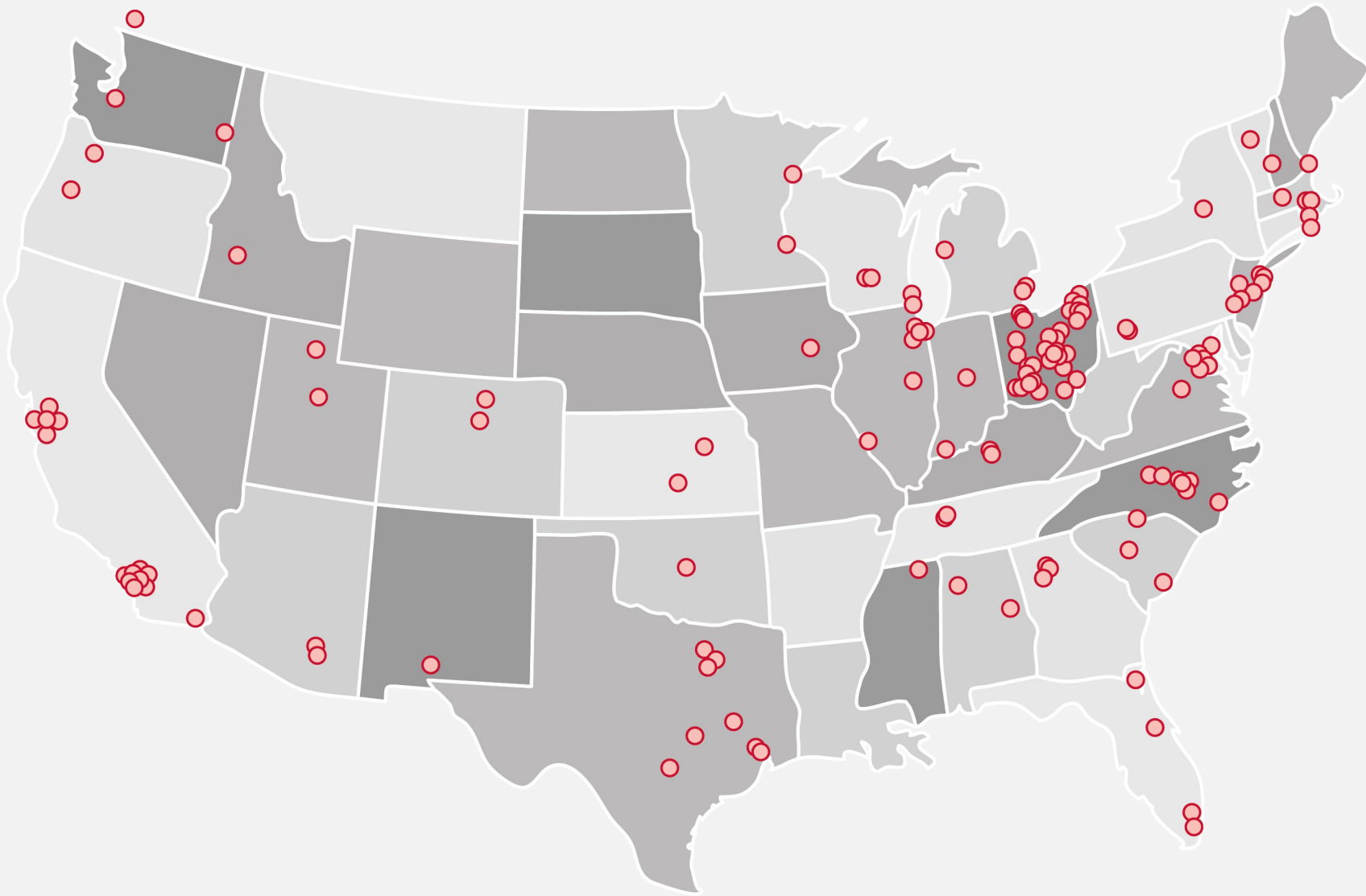


Installed all over the US and beyond

Makes it a community

- Easily customizable by local sysadmins
- Open sourced and actively supported

Example: Dozens of production deployments



Learn more!
Documentation, code repository, discussion forums, publications and presentation materials available at:

<http://openondemand.org/>