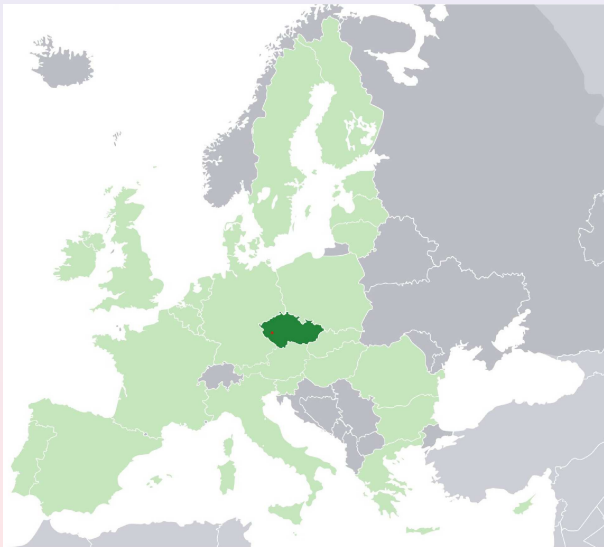


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Czech Republic in Europe



source: [wikipedia.org](https://en.wikipedia.org)



Pilsen in Czech Republic



source: wikipedia.org





- Founded in 1949 as a technical institute with 2 faculties
- 9 faculties as of 2009 (Applied Sciences, Economics, Art and design, ...)
- 18,000 students, 2,000 faculty and staff
- Center for Information Technology
 - 60 people
 - centralized IT services:
 - networking, VoIP
 - DNS, DHCP, e-mail
 - user management (IdM), authentication
 - distributed file system, backup services
 - HelpDesk
 - management of end user desktops
 - SIS development (12 implementations)
 - R&D and others (CESNET/GEANT2, EGEE, EUNIS, EurOpen.CZ, ...)

Orion = distributed computing environment

- Orion started in 1994, based on MIT Athena (authentication, common disk space, SW management, ...)
- cooperation with UCSC CATS
- NFS, later Transarc AFS 3.3
- 100 users, 2 public labs, 1 multi-user server

Current Orion Status = OpenOrion

- OpenOrion (standardized services with modular architecture)
 - SSO (MIT Kerberos/KfW, WebAuth from Stanford, PKI)
 - users and resource management (SunIdM)
 - LDAP
 - distributed file system – OpenAFS
 - support for multiple OS
- WEBNet
 - campus network, 10G backbone, support IPv6
 - part of CESNET (GEANT2, TERENA)
 - www.eduroam.org, 100+ APs in WiFi network

Statistics:

- 23,000+ accounts (6,000 changes per year)
- 200 servers
- 7,800 end users PCs (3,200 in dormitories)

AFS infrastructure in three separate locations; there are:
11 file servers

- FC infrastructure (~10 TB for AFS)
- Debian GNU/Linux i686, kernel 2.6.30
- openafs-fileserver 1.4.7
- reiserfs → xfs
- 40,000 volumes

3 databases servers

- Solaris 9

and hundreds of clients

- Windows XP (800+), Linux (350+), Solaris, Mac OS X

AFS used for:

- configuration files
- web sites
- projects
- software
- instalation desktops and servers
- home directories

- Web AFS interface (File Drawers)
- Object Storage in OpenAFS (cooperation with Christof Hanke)
- PKI integration
- new clients with native Windows file system support