

Wesley Jones

Cedar Falls, IA - wes@iamwpj.com

Education

University of Northern Iowa

Cedar Falls - 2010 to 2015

B.A. History, focus in education, government, literature, and sociology

Work History

University of Northern Iowa

System and Network Administrator - Cedar Falls - 2016 to Present

Network infrastructure support, Linux servers, and networking. Focus on automation and stability.

- Custom tool development (APIs, Bash, Python, Rundeck)
- Logging (ELK, rsyslog) and metrics collection (Prometheus, Grafana)
- SSL certificate management
- Web cluster management
- High performance compute administrator
- Telecom server administration (Avaya)
- Linux system administration (all flavors, Puppet)
- IPAM and network authentication (RADIUS, NAC)
- PCI and security hardening (OSSEC, CIS-CAT)

Aces

IT Client Support - Cedar Falls - 2015 to 2016

Direct client support for desktops and server administration for a healthcare provider.

- Active Directory Management
- DHCP, DNS, IP address management
- Desktop support, Windows 7-10 migration
- Network, telecom, and firewall support
- vSphere management and Veeam backups
- HIPAA, and custom healthcare applications support

Familiar Technologies

- **Languages:** Bash, Python, some JavaScript/PHP
- **Configuration Management:** Puppet
- **Web:** Apache, MySQL, Redis, PHP/HTML/CSS/JS, WordPress
- **Systems:** Linux, vSphere, Docker (testing only)
- **Workflow:** GitLab CI, Rundeck, Jira
- **Logging, Alerting, & Metrics:** rsyslog, Elasticsearch, Kibana, Logstash, OSSEC (Wazuh), Icinga, PagerDuty, Prometheus, Grafana

Special Projects

- **IPAM migration:** Review and select a product to integrate management of DHCP and DNS. I worked with a small team to evaluate options and choose the best solution from provided bids. Once a product was selected I co-led the migration onto the product and helped to resolve technical issues.
- **Centralized logging:** I took over a failing single node log search server (Graylog) and migrated to a multi-node Elasticsearch, Logstash, and Kibana cluster. I maintained an evaluation deployment of that service for several years as it gained support and traction for the value offered. It has been adopted as an integral service and is being integrated into a production life cycle.
- **Network device monitoring automation:** Create a system to automate, import, and expand our service monitoring of network devices. The automation was needed to replace a cumbersome manual process that was not being completed effectively. I also expanded the service to enable network engineers to develop custom monitors and use a CI workflow to activate them.
- **IT service management platform migration:** I worked with a small team to review and evaluate replacement options for our feature limited service platform. We chose Jira Service Desk to integrate with another product that was being implemented simultaneously — Jira Software. I served on both teams and helped to ensure the products would be a good fit and the decisions that were made helped to align with IT's goals for customer service. I also handled the migration of data from our previous ticket system to Jira Service Desk by creating custom API tooling.
- **Web learning application:** I maintained a custom application that allows instructors to teach classes about WordPress, SEO, MySQL databases, and web development for two years before beginning a full rebuild to support Python 3. I built a new backend layer and adapted the PHP web frontend to be more secure and have an updated look. The backend uses Redis for user caching and task scheduling and has a custom API to interface with directly as well as be the connection to the frontend. I also integrated the frontend login to the campus solution.
- **On-prem Kubernetes proof of concept:** I performed a minimal three node cluster installation of Kubernetes on virtual servers within our on premise environment. A colleague and I evaluated our team's ability to operate and integrate our current workflows into a container environment. We determined it wasn't a good fit and turned our focus to improving core infrastructure so that down the road the migration would be easier.