

Bertus Nieuwhof (IT Consultant)



As a dynamic IT Consultant and Professional Engineer, I bring a wealth of experience in technology and innovation. With a proven track record of managing intricate projects and delivering stellar results, I specialise in designing and implementing efficient, scalable solutions. My expertise in Linux systems, from Debian and Red Hat to Ubuntu, underscores my technical proficiency. I have developed and maintained Ansible playbooks and roles, contributed to the Ansible IaaS team, and built and managed AWX/AAP servers for Ansible automation. Recently, I delved into Generative AI Fundamentals and prompt engineering, fueling my passion for AI technologies. Always eager to learn and stay ahead in the fast-evolving tech landscape, I am dedicated to driving excellence and innovation in every endeavour.

PERSONAL

Name	: Bertus Nieuwhof
Residence	: Spain
Mobile	: +34604349845
Email	: bnieuwhof@gmail.com
Date of birth	: 13 September 1972
Status	: Married
Nationality	: Dutch
IT experience since	: 1990
Languages	: English, Dutch, Afrikaans

EDUCATION & CERTIFICATIONS

General Education:

- School Matriek (MBO) ICT and Business Economics, 1990

Certifications:

- Microsoft Certified Systems Engineer (MCSE), 1999
- Octopus Certified Clustering Specialist, 1999
- Microsoft Certified Professional plus Internet Information Server (MCP + I), 1999

Training:

- Generative AI Fundamentals 2024
- Prompt Engineering ChatGTP 2023
- Prompt Engineering Bootcamp 2023
- RedHat Openstack Foundation 13, 2020
- Python Development, 2019
- Object-Oriented Java, 2015
- CCNA, 2012
- Prince 2 Training Course, 2006
- ITIL, 1998

Security Clearance:

- Dutch Military Intelligence and Safety Level B

SECTOR EXPERIENCE

- Web Hosting
- Oil Industry
- Military / Police
- Cybersecurity / Legal Interception
- Financial
- Cloud Hosting
- Pharmaceutical
- Manufacturers
- Telecoms / Data Export Control

KNOWLEDGE & SKILLS

Operating Systems:

- Debian 7 to 12
- Red Hat (RHEL) 6 - 9.2
- Rocky 9.2
- CentOS 6/9
- Arch Linux
- Ubuntu Linux 22.04
- Windows Clients

Virtualization and Clustering:

- VMware vSphere v3 to v5
- Qemu
- Windows File/Print Clusters
- KVM
- Docker
- Openstack 13
- Google Cloud Platform

Monitoring Tools:

- Nagios
- Cacti
- Zabbix
- Grafana
- Icinga

Networking:

- TCP/IP, SMB, FTP, DNS, DHCP, IPv6, SMTP
- Tunnelling, Wireless, VoIP
- WINS, HOSTS, IPX-SPX, SNMP, SMTP, VPN, FTP, SAMBA, CIFS

Databases:

- Postgres
- MySQL
- Oracle 19c

Tools:

- Red Hat Satellite Server
- Tomcat, Apache, Nginx, WordPress
- Hosting Control Panels (Plesk, Ensim, Cpanel)
- PHP, Mail Servers, Virtualmin
- Next Cloud, Own Cloud, Squid Proxy
- Jira, GitHub, Bitbucket, Confluence
- Ansible AWX and Tower , Jenkins, Docker
- TOPdesk, Virtualbox, Elasticsearch
- Google Workspace, Ansible, Kubernetes, Icinga, Kibana

Backup and Storage:

- NetApp
- Apache Hadoop

Scripting:

- Shell Scripting Bash, Python, PHP
- Visual Basic 5 to 6, Delphi, Qbasic, CGI-BIN, HTML, DHTML
- Visual Basic 2005, ksh, bash and Python scripting
- Visual Studio IDE, Ansible AWX and Tower, Terraform

Methodical:

- ITIL, Prince2

Hardware:

- Dell/HP/IBM Servers, Blades
- Cisco/HP/Dell Switches, Cisco Pix /Asa
- EqualLogic, NetApp, EMC Storage
- Servers (Compaq, Dell, Toshiba), Notebooks (Toshiba, Fujitsu, Compaq, Acer)
- Hubs, Switches, Routers (Cisco, Cabletron, Allied Telesyn, KVM)
- PABX, Backup Apparatus, Print Servers, Printers

Security:

- SSH, SSL, SELinux, iptables (Firewall), OpenVPN

Work Experience

Sector: Pharmaceuticals
Organisation: Boehringer Ingelheim
Period: August 2022 – Present
Function: Big data Engineer

Technologies used: Jira, Bitbucket, Rocky Linux 9, Adoop,
Ansible AWX, Ansible AAP, Docker, Podman, VSCode

Responsibilities :

Ansible Coding and Infrastructure Setup:

- Developed and maintained Ansible playbooks and roles for automating various IT processes.
- Contributed significantly to the Ansible Infrastructure-as-a-Service (IaaS) team, facilitating the setup and management of infrastructure using Ansible.
- Provided expertise and guidance to clients in writing and optimising Ansible code.

AWX/AAP Server Administration:

- Built and administered AWX/AAP servers for orchestrating and managing Ansible automation tasks.
- Configured and managed projects, roles, and credentials within AWX/AAP, ensuring seamless integration and operation.
- Implemented and maintained execution environments using Podman and Docker to enhance automation workflows and environments.

Execution Environments:

- Created and managed execution environments with Podman and Docker to support various automation tasks.
- Ensured execution environments were robust, secure, and optimized for performance.

Delinea and RedHat Automation Hub Integration:

- Integrated Delinea for secure secrets management within automation processes.
- Utilised RedHat Automation Hub to source and manage Ansible content, enhancing the efficiency and scalability of automation solutions.

Linux System Administration:

- Administered and supported Linux servers, ensuring optimal performance and reliability for automation tasks.
- Implemented best practices for system security, monitoring, and maintenance in a Linux environment.

User Migration Preparation:

- Prepared for the migration of users from Hadoop to AWS in line with the company's transition plan.
- Notified and assisted approximately 500 users, ensuring a smooth transition, decommissioning with minimal disruption.

Sector: Care Technologies
Organisation: Sensara
Period: January 2021 – August 2022
Function: IT Specialist

Technologies used: Jira, GitHub, Bitbucket, Confluence, Debian 7,10,11,
Ansible, Jenkins, Docker, TOPdesk, Terraform,
Virtualbox, Bitbucket, Elasticsearch, Google cloud,
Kubernetes ,Icinga , Kibana

Responsibilities :

- Ensuring the infrastructure, including operating systems and installed applications, was consistently updated across 300 external systems and 20 infrastructure systems. Linux Debian.
- Utilizing Ansible and Jenkins to update 300 external machines.
- Writing and enhancing Ansible scripts as per the requirements.
- Administering all IT equipment with the assistance of Ansible and TOPdesk.
- Installing and operating Docker Nginx for specific external sites, Portainer.
- Leveraging Google Cloud to create VPS's for our infrastructure, managing Google firewalls, snapshots, OPS agents, and orchestrating VPS's as required using gcloud CLI.
- Employing VirtualBox on 300 external servers to create up to 5 virtual cores per server.

Sector: Managed Cloud Hosting
Organisation: Hot Potatoes
Period: November 2018 – December 2020
Function: Cloud Engineer

Technologies used: Jira, GitHub, Bitbucket, onfluence, Redhat 7/8, Centos 7, Ubuntu 20.04 , Docker, Terraform, Openstack, Asible, Kubernetes, Kibana

Responsibilities :

- Participated in the construction of RedHat OpenStack 13, and provided installation and support for various Docker containers.
- Conducted regular vulnerability and exposure scans, as well as web security scanning, to ensure the security of all hosted web applications.
- Made regular GIT commits on Ansible playbook changes.
- Provided a virtual environment with container support, utilizing OpenStack, KVM, Docker, and Ceph.
- Managed the installation and repair of the RedHat environment.
- Offered back-office support using Ansible.
- Gained extensive experience working with RedHat 7/8, CentOS 7, and Ubuntu 20.04

Sector: Military Opensource
Organisation: Dutch Military
Period: November 2018 – December 2020
Function: Linux Engineer

Technologies used: Jira, GitHub, Bitbucket, onfluence, Redhat 7/8, Centos 7, Ubuntu 20.04 , Docker, Terraform, Openstack, Asible, Kubernetes, Kibana

Responsibilities :

Delivered specialized software support and performed rigorous testing for OwnCloud installations within a Linux environment, ensuring optimal functionality and resolving any encountered issues.

- Executed the migration of Media Wiki using PHP and CakePHP within a Linux framework, ensuring data integrity and seamless user experience.
- Demonstrated proficiency in the daily usage of Microsoft applications, including Word and Excel, within a Linux setting.
- Utilized Visual Studio IDE for PHP and Python development in a Linux environment, showcasing adaptability across different programming languages and development platforms.
- Leveraged JBOSS, RedHat's open-source version of JEE, for enterprise-level application development and deployment on Linu systems.

Sector: Cybersecurity
Organisation: Verint Zoetermeer
Period: March 2016 – August 2018
Function: Linux Technical European Engineer

Technologies used: Windows Excel, Word, Networking Support
Functions, Switches, Routers, Cabling (Fiber/UTP), DNS Servers, BASH Scripts, Mail Servers, Monitoring (Nagios), Ticket System ServiceNow.

Responsibilities:

- Provided 2nd line support for bespoke cybersecurity and lawful interception software.
- Followed up on tickets from tier 1 and tier 3 engineers.
- Provided on-site technical support, primarily outside of Europe.
- Conducted site security surveys.
- Performed software and hardware upgrades.
- Implemented field change orders.
- Maintained site problem history reports.
- Worked according to Verint procedures.

Areas:

- Bespoke cybersecurity and lawful interception software, including the use of standard Windows Excel and Word.
- Performed day-to-day networking support functions, such as installing and supporting switches, routers, cabling (fiber/UTP), and DNS servers.
- Repaired and modified BASH scripts.
- Managed mail servers and monitoring (Nagios).
- Used ServiceNow ticket system.

Sector: Telecom/ICT Services
Organisation: KPN, Den Haag
Period: August 2014 – March 2016
Function: Linux Technical Engineer

Technologies used: Microsoft Office (Excel, Word, Visio), Nagios, Putty, FreeBSD, SunOS Mediators, Networking Support Functions, Switches, Routers, Cabling (Fiber/UTP), DNS

Servers, Mail Servers, Nagios

Responsibilities:

- Provided 2nd line support on complex problems (incident management), (problem management).
- Responsible for all technical application support on all Legal Interception services.
- Supported the installation of hardware in selected data centers.
- Efficiently and competently managed issues and risks during migrations/deployment and testing activities.
- Provided support on the hardware upgrade project on all Legal Intercept related equipment.
- Project: Migrated 20 FreeBSD servers to Linux 7 servers.

Sector: Telecom/ICT Services Organisation: T-Systems, Den Haag

Period: July 2013 – August 2014

Function: Senior Linux Technical Project Leader

Technologies used: Microsoft Office (Excel, Word, Visio), Prince2

Responsibilities:

- Coordinated designers, engineers, subject matter experts, vendors, service providers, and clients to deliver milestones according to the plan.
- Efficiently and competently managed issues and risks during data migrations/deployment and testing activities.
- Tracked, assessed and reported technical teams progress against the plans agreed.
- Managed technical deployment scope and mitigated risk.
- Delivered on CSLs (Critical Service Levels).
- Chaired Weekly local storage forum/meeting.
- Projects carried out by T-Systems under service contract to Royal Dutch Shell

Sector: Gas and Oil

Organisation: Royal Dutch Shell, Rijswijk

Period: July 2008 – June 2013

Function: Linux Engineer/Linux Technical Account Manager

Technologies used: Red Hat Linux 5.5/6 (Linux, Workstation),
Microsoft Windows 2000/7, PUTTY SSH,

Microsoft Office (Excel, Word, PowerPoint),
Prince2, Python/BASH scripting, Various
services , data servers, MySQL, DNS
routers, cables (fibre/UTP)

Networking
servers, switches,

Responsibilities:

- Technical and administrative management of +/- 350 Shell Linux servers and Linux workstations.
- Supported +/- 250 Shell scientific personnel with all necessary IT services.
- On the spot troubleshooting for Shell developers and researchers.
- Coordination of small scale projects for Shell network, storage and computing components and their support groups.
- 3rd line troubleshooting and support for other Shell teams, e.g. help-desks and IT coordinators, including system analysis and performance management.
- Application support for Shell scientists, such as seismic applications.