

## Profile

I have my own fully IPv6 enabled lab network which I test new concepts on. It consists of several VM servers running on a well equipped Cisco test lab (multiple routers, redundant switches, access points) for my home network where I experiment with new technologies on my own time. Often blogged about at <https://secure.ciscodude.net/blog/>

## Network Skills

### Network Design

Proven ability to design reliable, redundant networks.

### Network Operations

Over 10 years experience operating large networks, including IPv6 and anycast.

### Network Management

Over 15 years experience administering core network services.

## System Skills

### VMware vCenter

Proven ability to build/run reliable, redundant virtual machines and the environment which they run on.

### System Administration

Over 20 years experience administering linux systems.

### Internet Services

Over 15 years experience administering core internet services.

## Technical

BGP

OSPF / OSPFv3

VMware

IPv6

Network Design

Subversion / Git

OS X

FreeBSD

Linux

## Experience

### Manitoba First Nations Education Resource Centre, Inc

System Administrator, Wapaskwa Virtual Collegiate

2013-current

Planned and executed a virtual teaching environment move from a partner organization to in house, which included almost 1TB of course material as well as several auxiliary virtual machines. Implementation included bringing up BGP with two providers. Responsible for virtual environment availability and uptime on a daily basis.

### VOI Network Solutions

Autonomous System Operator

2011-current

Documented, planned and implemented smooth network expansions and upgrades. Planned and executed a major network upgrade to multiple gigabit BGP peers/gateway providers. Implemented virtualization using VMware ESXi, provisioned with Windows, Linux, and FreeBSD VMs. Set up and maintained robust logging and monitoring systems to monitor the network proactively for problems and performance bottlenecks. Implemented Splunk to pull out, correlate, and trend highly useful data from otherwise useless, noisy log files.

### Manitoba First Nations Education Resource Centre, Inc

IT Technician, Data Management

2010-2012

Planned and implemented enterprise network changes as member of Infrastructure Team. Designed, implemented, and supported Service Desk tracking software for internal and external clients. Supported Video Conferencing units in First Nation schools and the MFNERC. Managed stacked Cisco switch configurations, and Cisco routers and firewalls.

### Broadband Communications North

Director, Network Operations

2007-2010

Solely responsible for operating and maintaining a geographically diverse network spanning over 40 First Nations and remote communities in northern Manitoba. Singlehandedly ran an ISP using Cisco Catalyst switches, Cisco routers, and some Fortigate routers. All standard ISP services were provided using standards compliant open source software. Maintained communications with Government clients (MB Telehealth, Health Canada, Government of Manitoba: Science Technology Energy and Mines). Responsible for dealing with telecom vendors (Manitoba Hydro Telecom, MTS, Shaw Business Solutions). Responsible for implementing monitoring all aspects of the network including performance, availability, and growth using open source software packages (Nagios, Cacti, Smokeping, NetDisco).

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## Experience

### Keewatin Tribal Council

System Administrator, Manitoba First Nations Schoolnet

2005-2007

Maintained Internet connections to 63 First Nations schools, including 10 large satellite internet ground stations which later became part of the Broadband Communications North (BCN) network. Responsible for maintaining a Netware cluster in Winnipeg and Thompson as well as desktop support for approximately 70 Windows workstations. Deployed Windows 2003 and Linux servers at schools. Under a secondment to BCN, responsible for planning out, configuring, and deploying BCN's network. This led to full-time employment at BCN.

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### Frantic Films

Junior System Administrator

2004-2005

Desktop support for approximately 100 Windows workstations, and 100 render slaves. Deployed 120 new render slaves, including a custom coded FreeBSD based network imaging solution. Periodically upgraded the backend file servers. Responsible for all network cabling. Responsible for timely transfer of digital proofs (24 hours a day) to branch offices in Vancouver, Los Angeles, and Sydney, Australia for client proofing. Archived and restored old projects to and from tape backup.

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### Tolko Industries

Summer IT Intern

2003

Was responsible for patching workstations, as well as deploying Sophos Antivirus to all workstations.

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### DigitalSpace.net

Junior System Administrator

1999-2001

Remotely supported approximately 8,000 web hosting clients, and the Linux servers they were hosted on.

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