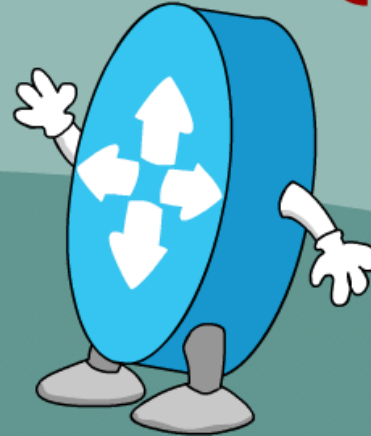




NETDEVOPS {LIVE!}



DEVNET

Power Your NetDevOps Workflows with GitLab

Brad Downey

GitLab

Twitter: [@TechBradD](https://twitter.com/TechBradD)

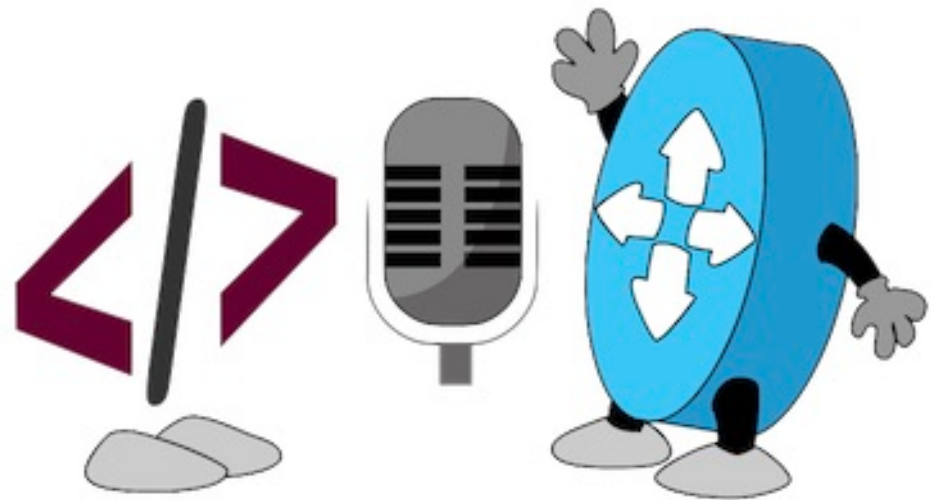
Season 3, Talk 2

Hosted by Hank Preston, NetDevOps Engineer

Twitter: [@hfpreston](https://twitter.com/hfpreston)

<https://developer.cisco.com/netdevops/live>

NetDevOps Tech Chat





GitLab

Everyone can contribute



Who Am I?

- A technologist at heart.
- Started configuring networks in 1997.
- CCIE #6357
- 20+ Years of Infrastructure
- “Scripting” for many years.
- “Network Automation” lead me to GitLab
- Terraform, Ansible, python, gitlab-ci, cloud-formation
- AWS, GCP, Kubernetes, Istio, Cisco DC
- BASIC, Pascal, perl, expect, C, go



Strategic Account Leader

Support → ISP → Consulting → SE → AM → Sales Specialist → SAL



GitLab

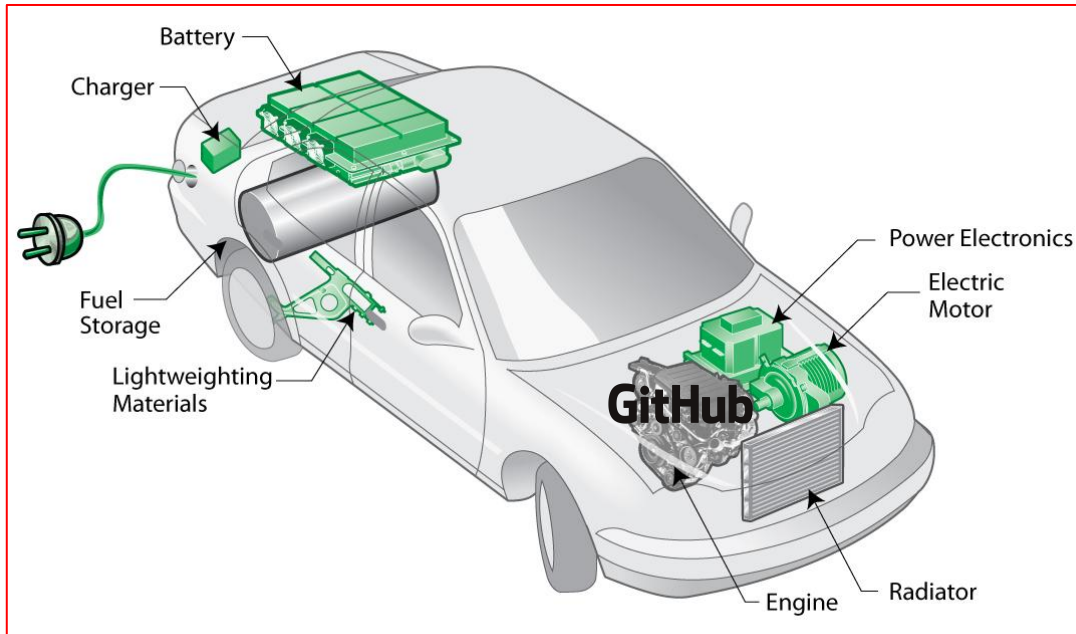
did he just mispronounce

GitHub





GitLab



- Manage
- Plan
- Create
- Verify
- Package
- Secure
- Release
- Configure
- Monitor
- Defend

Many tools... each with their own function.



Phone



Calendar



E-mail



Camera



Text



Weather



Music



Web



Alarm



NOKIA

DAY-TIMER

Nikon

Canon



BLACKBERRY



verizon

zune



THE WEATHER CHANNEL



at&t

WALKMAN



SONY

CASIO

but moving data between devices was cumbersome.



REPLACED OLD POINT TOOLS...

- Phone
- Calendar
- Email
- Camera
- Text
- Weather
- Music
- Web browsers
- Alarm Clocks



ENABLED ENTIRELY NEW CAPABILITIES...

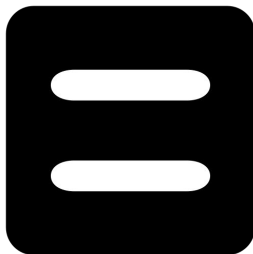
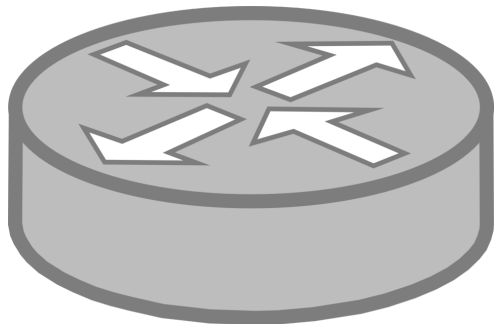
- Social media
- Social networking
- Location services
- Streaming media
- eCommerce
- Alerts
- Reservations
- Ride-sharing
- ...

A single, intuitive user experience, data model and integrations



Yea, that's great but I'm a Network Guy

What do you have for me?



```
version 12.3
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Router
!
ip subnet-zero
!
ip cef
!
interface FastEthernet0
no ip address
shutdown
```



What do you need to get your job done?

- What do you use today for Project Management? (Is it Agile? Does it fit your needs?)
- Where do you store your configurations? Your scripts? (Does everyone have access?)
- What kind of automation can you do with those configurations and scripts? (Is it easy?, Can anyone see the log/output of someone else's automation?)
- Where do you track all the things that need to be done? (If you said SNOW, do you really track everything that needs to be done or just the high level task?)
- How often do you make changes? (Are they small and frequent?)
- Do you test your changes [outside of production]?



GitLab for the Network Team



Manage



Plan



Create



Verify



Package



Secure



Release



Configure



Monitor



Defend

Central access control for projects, automation, and logs.

Project and task mgmt.
Roadmaps to project deliverables.

Configs, scripts, and docs repository in a single location.

Automation of scripts, configs, testing, and logging.

Test env repository for quick reuse.
Common build for tools.

Secret Detection, open source license and dependency manager.

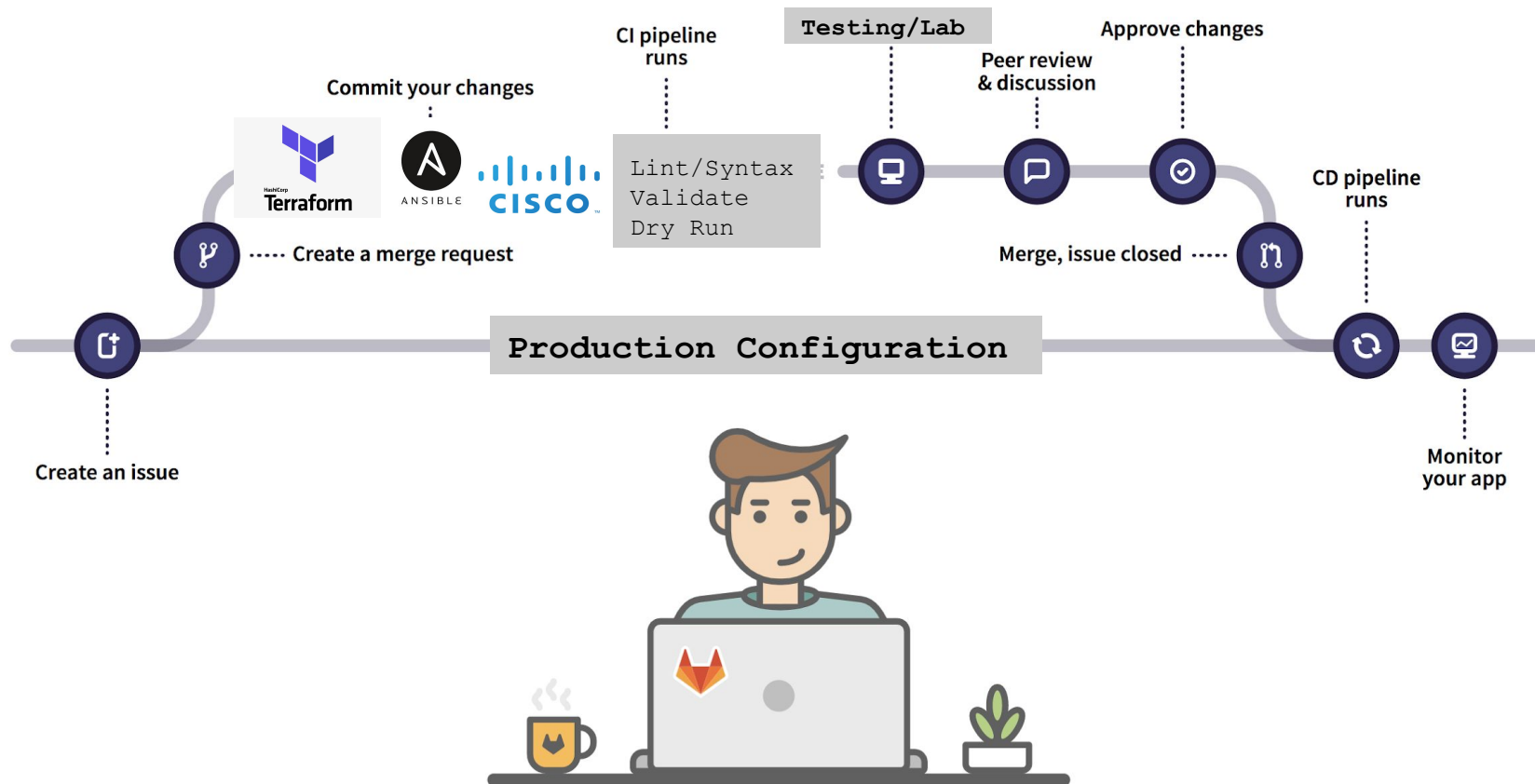
Track know good configs and release.

Chatops, runbooks, and kubernetes configs.

Service Desk
Logging and monitor for apps.

Run-time firewall and IDS for apps.

How GitLab does it



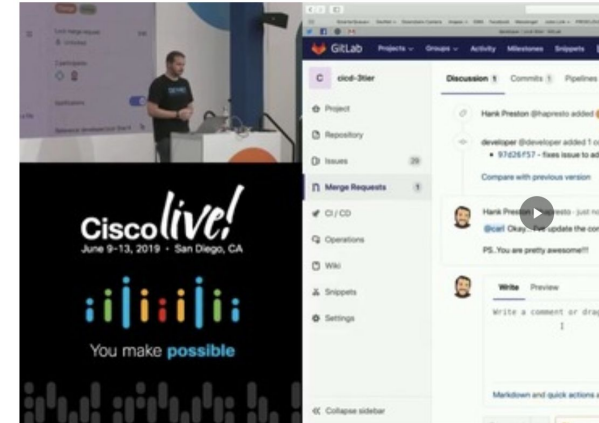
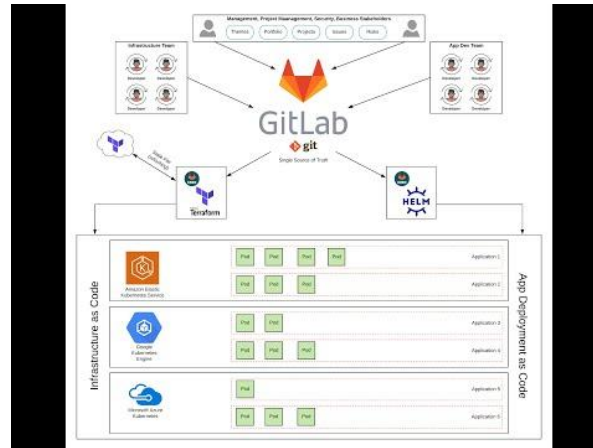


How to Git Started?

Let's git started together!

GitOps

Working 9 to 5 as a
NetDevOps Engineer -
DEVNET-1291



<https://gitlab.com> - Free Users & Groups; Public & Private (Every State of the DevOps LifeCycle)
Try all GitLab features - free for 30 days



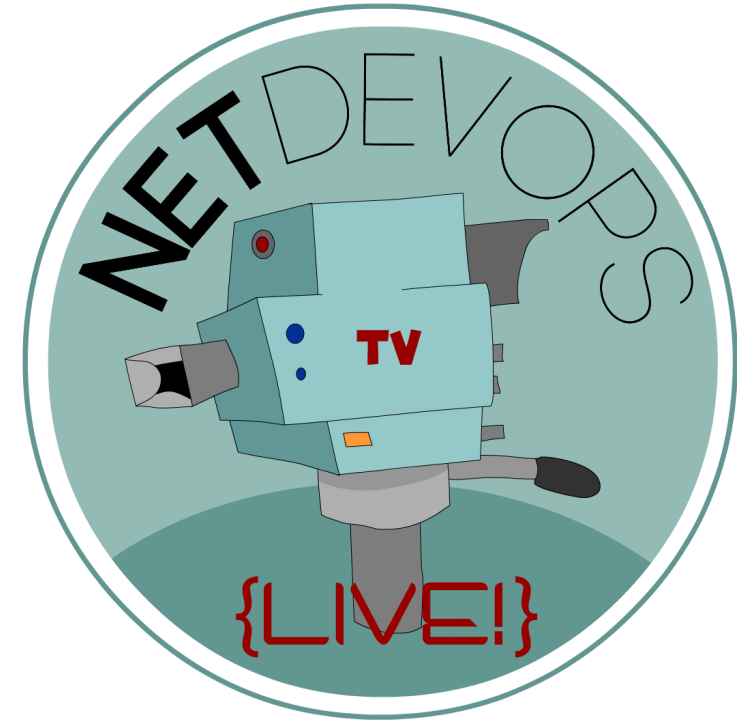
GitLab

Everyone can contribute

</finish>

Webinar Resources on DevNet!

- Docs and Links
- Learning Labs
- DevNet Sandboxes
- Code Samples



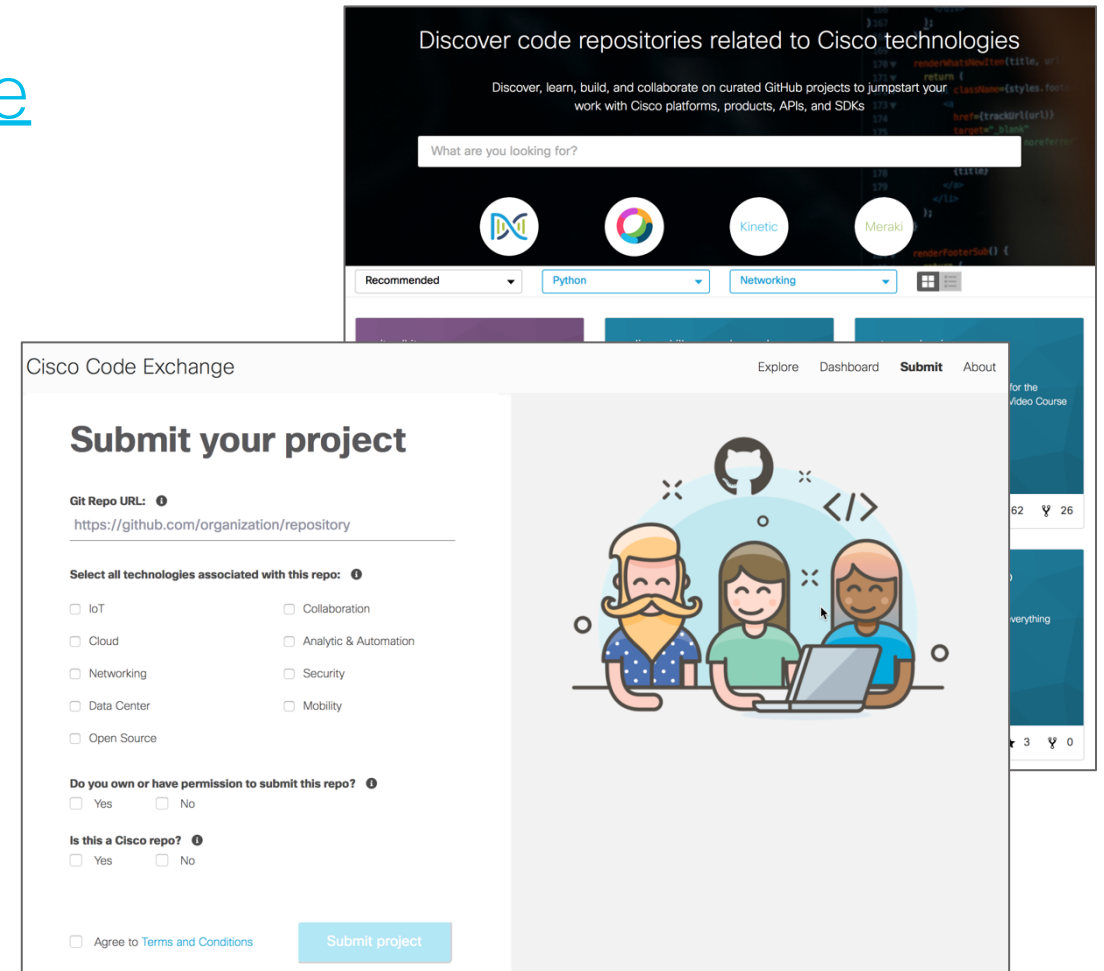
developer.cisco.com/netdevops/live/#s03t02

NetDevOps Live! Code Exchange Challenge

developer.cisco.com/codeexchange

Find an interesting project on Code Exchange and try it out. Bonus points, send feedback to the owner!

Example: Start by exploring the [Python Networking Category](#)!



Looking for more about NetDevOps?

- NetDevOps on DevNet
developer.cisco.com/netdevops
- NetDevOps Live!
developer.cisco.com/netdevops/live
- NetDevOps Blogs
blogs.cisco.com/tag/netdevops
- Network Programmability Basics Video Course
developer.cisco.com/video/net-prog-basics/



Join us next week!

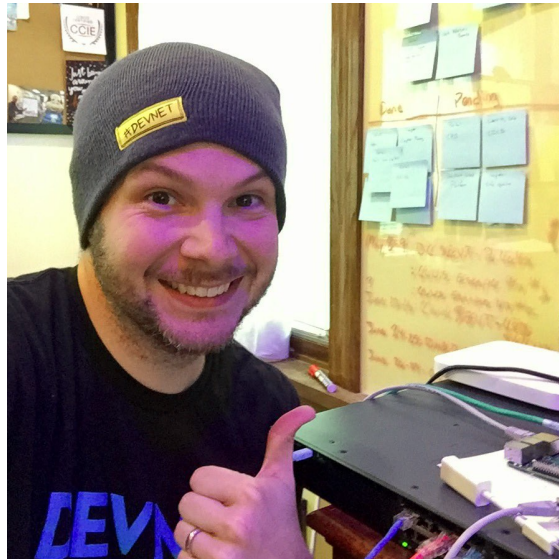


Fishing for Network Health with Batfish

April 21, 2020 with Samir Parikh

<https://developer.cisco.com/netdevops/live/#s03t03>

Got more questions? Stay in touch!



Hank Preston

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 <http://github.com/hpreston>



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 <http://github.com/CiscoDevNet>

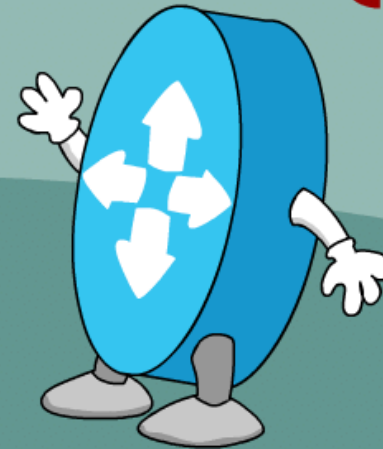


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