

# **Exploring cost-effective Talent strategies to build New-Age Cloud teams**

**Conceptualized and Developed: March – 2023** 

This document provides an overview of cost-effective Talent strategies for HR to build Cloud teams with in-demand and emerging skills. Cost savings around Global talent, Global centers, New Age Employment model, and Reskilling/upskilling have been discussed

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#### **Executive Summary**



#### **Overview**

Despite the aggressive cost-cutting measures and dip in global hiring, Enterprises are diverting their budgets toward Digital transformation activities such as Cloud Transformation. This has fueled the demand for Cloud Talent across Industries. **50**% growth in Global Cloud Talent demand is expected by 2026. Demand for Critical Cloud job roles such as 'Cloud Security Engineer' increased by **3.5**% in January 2023 alone (compared to typical demand). Moreover, The technology stack of the Cloud has changed drastically in the last few years. Cloud Talent with New Age skillsets has become the priority for global firms.

#### **Unprecedented Challenges for HR in 2023**

Unlike last year, The major challenge for HR is to hire Cloud Talent within tight budgets. This scenario adds a significant burden to already existing challenges for the Cloud talent landscape, i.e.:

- Scarcity of cloud talent across traditional hiring locations
- Limited talent pool available for New Age skillsets
- Highly competitive landscape (Companies paying premium cost)

#### Draup's analysis of Six cost rationalization strategies for building/expanding Cloud team

- 1. Leveraging global Cloud Talent hotspots: Emerging global locations can be 7-8X more cost-effective for hiring cloud talent
- 2. Globalization of Cloud teams: Globalizing Cloud teams by expanding global centers can be highly cost-effective (43% cost savings)
- 3. Hiring from IT Services companies: Hiring from IT Services companies can save up to 10% talent costs for companies, as opposed to direct or Technology peers
- 4. Experimenting with emerging Employment models: Hiring Contract workers, Gig workers, and Laid off-employees can be 30% cost-effective
- 5. Reskilling disrupted IT Talent internally: Reskilling disrupted internal IT talent into In-demand Cloud roles can save up to 20% Talent cost

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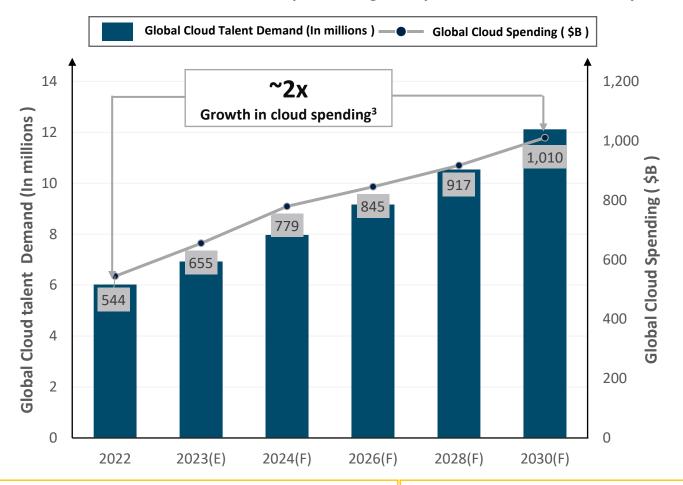
#### This section covers:

- Rising Cloud Talent demand and Cloud related spending in 2023
- Key Cloud initiatives & respective indemand job roles for 2023
- In-demand skillset analysis for sample Cloud job role- 'Cloud Security Engineer'
- Rising HR challenges due to limited hiring budget and availability of talent with niche Cloud skills

Rising Cloud Talent demand in 2023: Despite the hiring freeze and economic slowdown, demand for Cloud talent is rising with increasing public/hybrid cloud adoption across enterprises



#### Cloud- related talent demand<sup>2</sup> is expected to grow by ~15% CAGR<sup>1</sup> for next 3-4 years



(~69%) CEOs and CFOs plan to increase their spend on Cloud / digital Transformation technologies in order to Efficiently Drive Digital Investments despite the economic situation

#### 4.15 Million

Is the current cloud-related talent demand-supply gap in 2023, which grew by ~56% (1.82 Million) since 2021

#### Top Reasons for the exponential rise in Cloud talent demand



Need to optimize budgets allocated to Cloud (SaaS, PaaS, IaaS)



Judicious utilization of Cloud to automate back/front office processes to reduce operations cost



Increased management activities due to the complexity of Hybrid cloud, Multicloud environments



Rising need to fix vulnerabilities/security issues due to the increased use of IoT and Edge computing



#### Cloud areas/initiatives for 2023



Cloud Automation with AI & ML (leveraging AIOps)

**Hybrid Cloud Migration Capacity** 

Meshed or Service-oriented Data
Architecture

**Hyperscale Computing & Networks** 

**Cloud-native Software Service** 

**Enhancing Cloud Resilience & Security** 

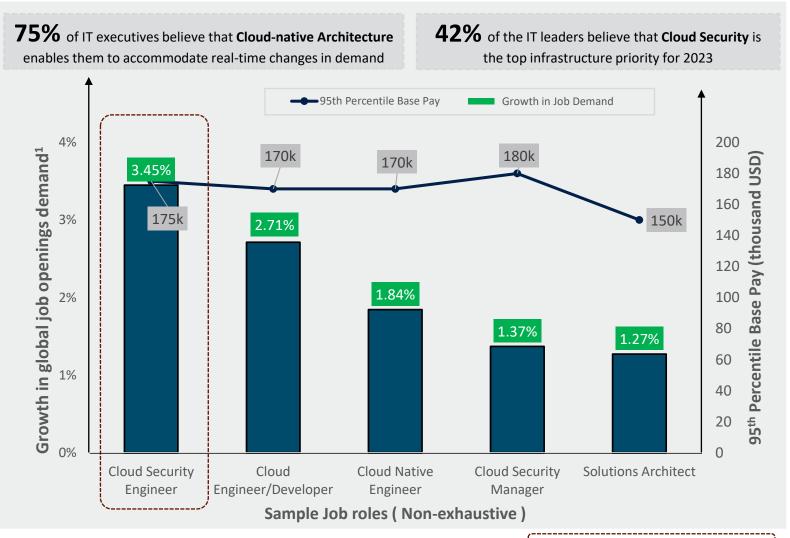
**Building Cloud Datacenters** 

Improving Enterprise Cloud Storage

**Enabling Private Cloud Platforms** 

Key in-house cloud areas

#### Increase in global job demand for sample cloud roles



Sample role is taken for skill analysis

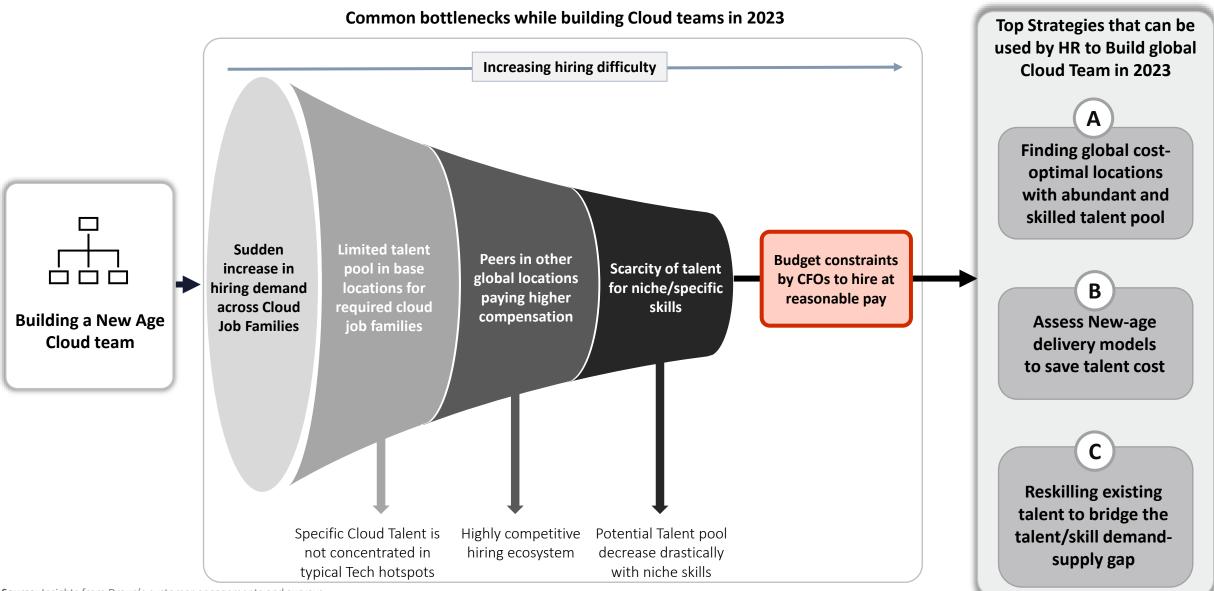


#### Draup analysed 100+ cloud-driven companies to understand the emerging and in-demand cloud skillsets of a sample role - 'Cloud Security Engineer'

Cloud Development & Deployment		Infrastructure and Networking		Security			Databases
				Detection	Assessment & Remediation		Databases
Container Orchestration– (Kubernetes)	Hybrid, multi-cloud deployments- (OpenShift)	Infrastructure-as- Code Tools - (CloudFormation)	Cloud-native platform- (Cloud Foundry)	Host Intrusion Prevention Tools- (Splunk)	Bug Logging Tool- (OWASP)	Static Analysis- (SonarQube)	Database Management Tools- (SQL/PL-SQL)
Storage Interface- (S3)	Message Queueing- (SQS)	Cloud Infrastructure Management- (Puppet)	Architectural Styles- (REST, SOAP)	Authorization Protocol- (OpenID Connect)	Vulnerability Assessment- (Tenable Nessus)	Security Assessment- (FedRAMP)	Database-Processing Engines (Presto)
Open-source drive cloning (Clonezilla)	Dynamic Auto-Scaling	Elastic Load Balancing	Stateless Redundancy IP routing	Intrusion & Threat Detection (Suricata)	Web Service Security Standards- (WSS)	Layered Defense System- (BlueCoat)	NoSQL Databases (Cassandra, Aerospike, DynamoDB)
Web Cloud Monitoring- (CloudTrail)	Automation Servers- (Jenkins)	Scalable Computing- (EC2)	Software-as-a-Service Tools - (CloudZero)	Penetration Testing Platforms- (Burp Suite)	IT Risk Management (Xacta)	Symantec Endpoint Protection	
Cluster Management & Scheduling (Nomad)	Platform-as-a-Service (Heroku)	Serverless Computing Programs- (Lambda)	Internet Protocol Suite (TCP/ IP)	Network Security Protocol (Kerberos)	Application Security Platforms (Veracode)	Security Information & Event Management (SIEM) tool- (Splunk)	
CI/CD Tools (GitLab, CircleCI)	Programming (Groovy, Shell, Python, Terraform)	Networking Protocols (VPN, PrivateLink)	Content delivery networks- (CloudFront)	NIST Security Framework (800 series)	Security Compliance Framework- (SOC 2)	Security Tokens – (OAuth 2.0, SAML 2.0)	

Challenges for HR leaders: HR Leaders are under pressure to hire Cloud Talent and are forced to navigate budget cuts and cost rationalization plans mandated by CXOs





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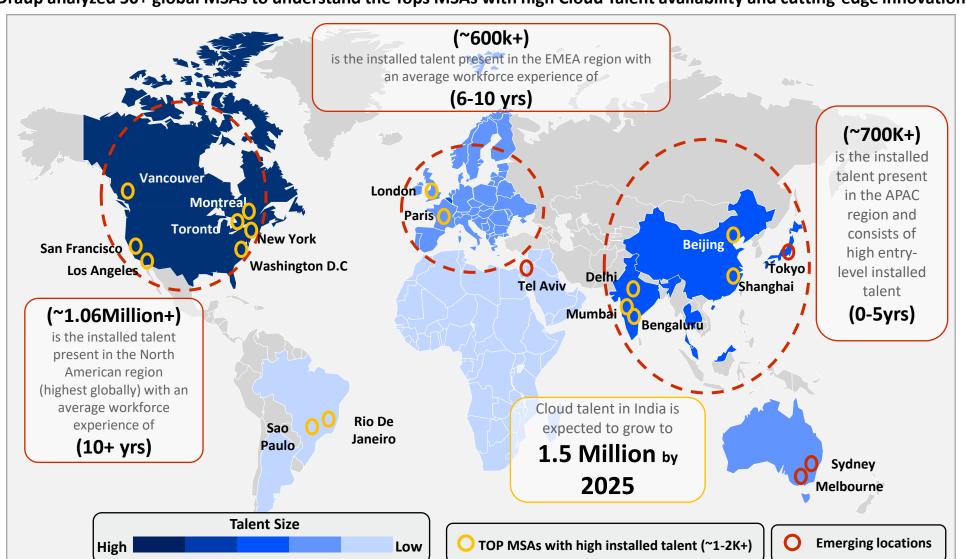
Cost-effective Talent strategies to build cloud teams

#### This section covers:

- Leveraging emerging global tech hotspots
- Leveraging Global teams and expanding/setting up global centers
- Hiring Talent from IT service providers
- Hiring Gig/Contractual workers on an hourly/monthly basis
- Reskilling strategies for disrupted job roles
- Upskilling strategies for existing cloud talent



Draup analyzed 50+ global MSAs to understand the Tops MSAs with high Cloud Talent availability and cutting-edge innovation



Draup's analysis of top Firms investing in emerging locations

JPMORGAN Chase & Co.

JP Morgan is planning to spend ~12\$

Billion in 2023 in cloud/ digital

transformation capabilities & is

planning to hire ~6,000+FTEs in its

Indian headquarters



been focusing primarily on Cloud transformation as well as other emerging technologies with over ~8.000+ FTEs

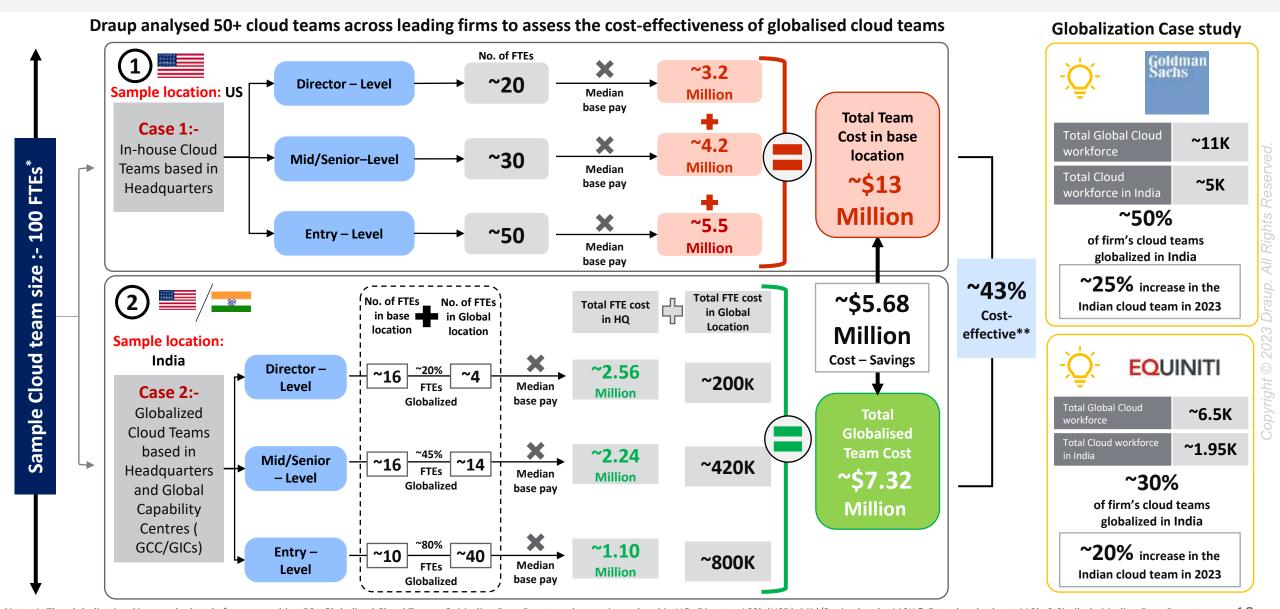




Dell has acquihired Cloudify a company based in **Tel Aviv** (Israel) to boost its cloud orchestration capabilities

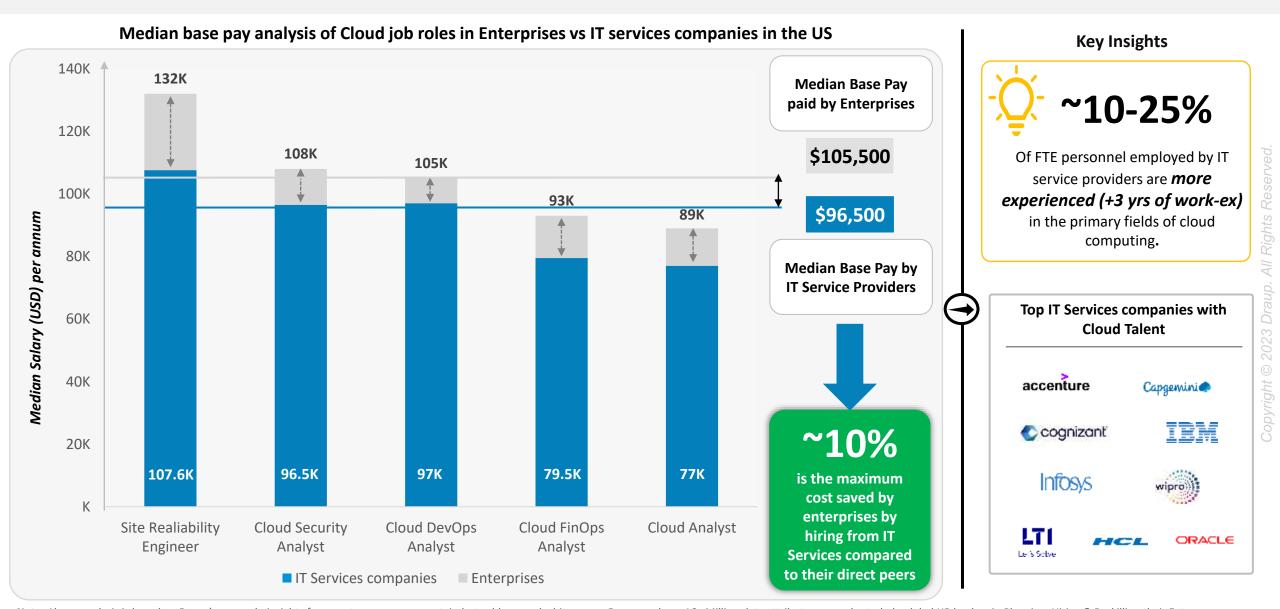
2. Globalization: Expanding or setting up global capability centres can help save up to (\$6 Million) cost for a scalable cloud team (sample Size of 100 FTEs)





3. Hiring from IT Services companies: Cloud Talent in IT services companies are equally skilled and employed with lower Salaries (compared to direct and Tech peers). Hiring from IT services companies can save up to 10% on the cost

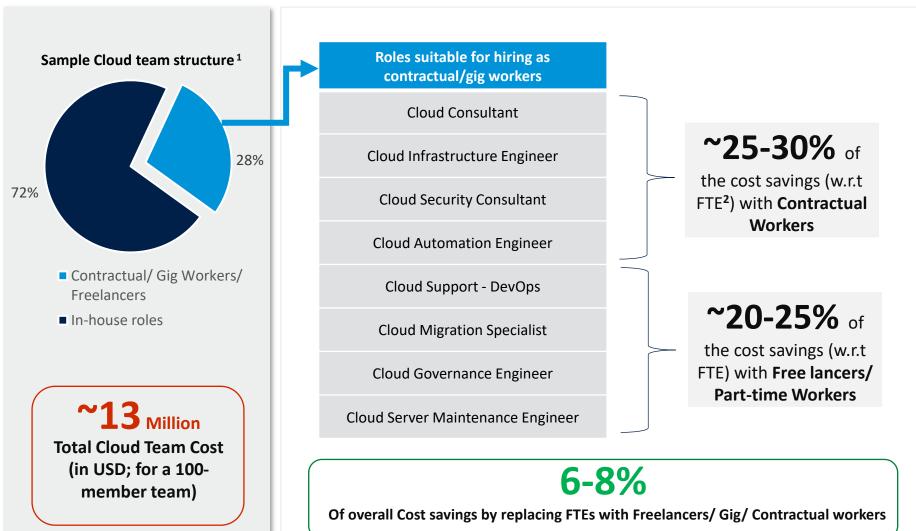




#### 4. Leveraging Gig economy: Certain job roles in Cloud are highly cost-effective (6-8%) when hired part-time or on a contractual basis



#### Identifying the job roles that are required on a 'part-time basis' or for a shorter duration can help save significant cost



#### Additionally, Laid-off talent can also be used to lateral hire cloud talent

### ~270k+

Total laid-off tech talent count in the US (2022-2023)

#### Top companies involved in layoffs















#### Reduced time, cost & effort

Talent pipeline can be fast-forwarded by hiring laid-off talent at a reasonable cost.

#### Improved gender & ethnic diversity

Hiring laid-off professionals provide an opportunity to increase gender & ethnic diversity





Sample disrupted job roles

**IT Administrator** 

**Desktop Support Analyst** 

**Dot Net Developer** 

**System Engineer** 

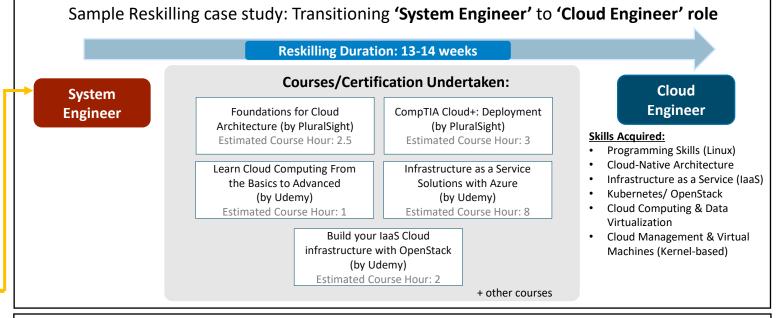
**System Administrator** 

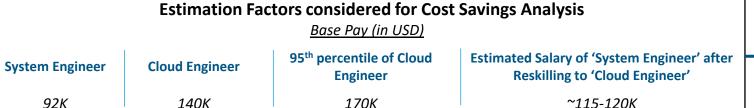
**System Analyst** 

**Technical Support Engineer** 

**Network Engineer** 

**IT Consultant** 







**Benefits of Reskilling** 



15-20%

cost savings in comparison to lateral hiring



Reduced attrition rate by reskilling disrupted job role



Opportunity to improve diversity metrics for underrepresented indemand cloud job roles

6. Upskilling existing Cloud Talent: Companies pay inflated salaries for similar talent with emerging/New Age skills. Upskilling existing roles can save lateral hiring cost and boost employee experience



#### **Cloud Security Skillsets(Non-exhaustive)**

#### **Sample Cloud Security Skills**

Vulnerability Assessment- (Tenable Nessus)

Container Orchestration – (Kubernetes)

Scalable Computing- (EC2)

Security Information & Event Management (SIEM) tool-(Splunk)

NoSQL Databases (DynamoDB, Aerospike)

CI/CD Tools (GitLab, CircleCI)

Security Tokens – (OAuth 2.0, SAML 2.0)

**Serverless Computing Programs- (Lambda)** 

Hybrid, multi-cloud deployments- (OpenShift)

Message Queueing- (SQS)

Automation Servers- (Jenkins)

Software-as-a-Service Tools - (CloudZero)

New-age & emerging skills required for 'Cloud Security Engineer' role

#### Sample Upskilling case study: 'Cloud Security Engineer' role upskilled with in-demand & emerging skillsets

Upskilling duration: 11-12 weeks

#### **Skills and Course Sequencing**

Cloud Deployment & Scaling	Cloud Infrastructure & Networks	Cloud Security
<b>DevOps, CI/CD for Beginners</b> (by Udemy) Estimated Course Hour: 2.5	AWS Lambda and the Serverless Framework Learning (by Udemy) Estimated Course Hour: 7	Getting Started with OAuth 2.0 (by PluralSight) Estimated Course Hour: 2.25
Skills Acquired  CI/CD pipelines, Automation  Servers- (Jenkins)	Skills Acquired AWS Lambda function & Serverless framework YAML, DynamoDB, AWS S3, API Gateway, EC2, CloudWatch	Skills Acquired Authorization Protocol- (OpenID Connect) API Security, OAuth 2.0

Existing skills

Skill Addition

Skillsets of an upskilled 'Cloud Security Engineer'

- Programming Skills-Python, Java
- **Vulnerability Assessment**
- Security Information & Event Management
- Kubernetes
- Authorization Protocol-(OpenID Connect)
- CI/CD pipelines, Automation Servers-(Jenkins)
- AWS Lambda function & Serverless framework
- DynamoDB
- API Security, OAuth 2.0

#### **Upskilling Benefits**

**74%** 

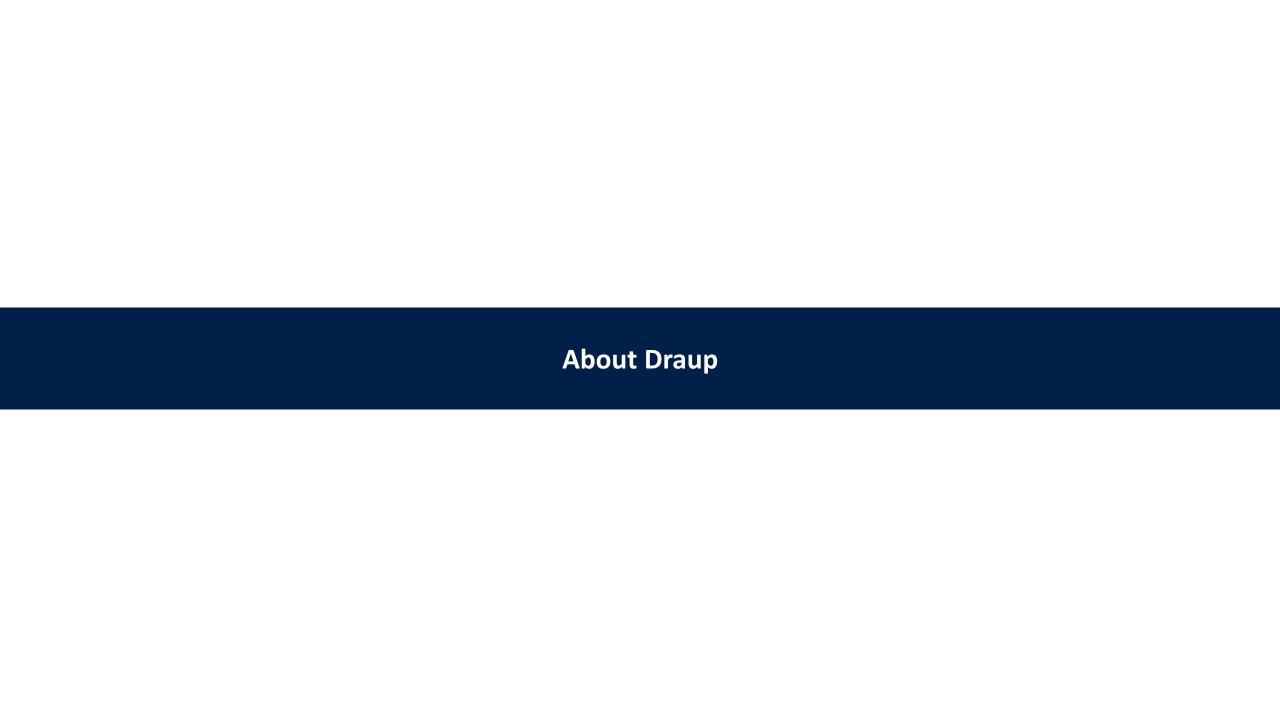
Employees are ready to learn new skills in order to **be future-ready** 

#1

"Providing learning opportunities" is the No. 1 way organizations are working to **improve retention** 



Boost *employee engagement & satisfaction* by eliminating the feeling of stagnation





#### **Draup Capabilities & Data Assets**



#### **EMPOWERS DECISION MAKING IN**

**Strategic Workforce Planning** 

**Talent Acquisition** 

**Peer Intelligence** 

**Diversity & Inclusion** 

**Career Path Development** 

**Global Locations Footprint** 

**University Relations** 

**Digital Transformation** 

and diverse other use cases...

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700M+
PROFESSIONALS



**4,500+**JOB ROLES



500,000+
PEER GROUP
COMPANIES



33 INDUSTRIES



280M+

JOB DESCRIPTIONS



300,000+ COURSES



2,500+
LOCATIONS





4M+

CAREER PATHS

ANALYZED



30,000 SKILLS



47,000+
DIGITAL TOOLS & PLATFORMS



175,000+
UNIVERSITY
PROFESSORS



75+
MACHINE LEARNING
MODELS DEYELOPED



16M+
DAILY DATA
POINTS ANALYZED



100+
LABOR STATISTIC DATABASE



1,000+
CUSTOM
TALENT
REPORTS

